

# salvarani

Since 1983



## COMPONENTS 12-24 Volt



# Il nostro obiettivo: la piena soddisfazione

## Storia Salvarani

*La mia storia inizia nel 1970, ero ragazzo e con i miei genitori Giovanna ed Italo che lavoravano in un'importante azienda di irroratrici, "Carpi Pompe". Li aiutavo dopo la scuola e con loro visitavo le fiere di settore. Finiti gli studi ho iniziato a lavorare nella medesima azienda sulle macchine innovative, come la "scatola nera" e i controlli elettronici. A quel tempo quelle macchine erano le più evolute del mercato italiano, e montavano un "TracciaFile" di importazione USA. Ho visto in questo prodotto un'innovazione per far nascere una mia azienda.*

*Pier Giorgio Salvarani*

*Salvarani nasce nel 1983 in un Garage a Poviglio nel cuore dell'Emilia Romagna, regione che vanta una lunga storia nel campo delle macchine agricole e dei loro componenti.*

### Le tappe più significative:

1983 Primo tracciabile prodotto in Italia  
1985 Elettronica DPA Spraymatic e comandi elettrici  
1986 Serbatoio lavamani e strisciante  
1992 Distribuzione Centraline meteo Davis  
1995 Distribuzione ugelli TeeJet  
2006 Filiale produttiva in Romania  
2010 Produzione banchi prova irroratrici  
2012 Acquisizione della società AAMS

Oggi Salvarani è una dinamica realtà che offre una gamma completa di prodotti e componenti per macchine agricole e a lenta movimentazione.

### Le priorità della Salvarani sono:

- Innovazione
- Precisione di lavoro
- Affidabilità del prodotto
- Assistenza e supporto post vendita
- Tutela dell'ambiente

Ciò si traduce in prodotti di elevato standard tecnologico e in servizi specializzati in grado di garantire competitività e vantaggi economici alle aziende costruttrici, alle reti di vendita e agli utilizzatori.

L'azienda offre inoltre la propria esperienza per lo sviluppo di progetti personalizzati a seconda delle esigenze dei clienti.

I prodotti Salvarani sono classificabili in 4 principali categorie:

Accessori per l'agricoltura e macchine a lenta movimentazione.  
Sistemi di misurazione di precisione per taratura e certificazione irroratrici.  
Componenti elettrici ed elettronici.  
Compressori a secco per autoveicoli.  
Salvarani affianca alla propria produzione alcuni marchi in esclusiva per il mercato italiano: TeeJet® per ugelli e accessori per l'irrorazione, SHURflo® per pompe a membrana 12V e Davis Instruments® per le centraline meteorologiche.

### L'Azienda ha 3 sedi in Europa:

Salvarani s.r.l. Sede centrale Poviglio (Reggio Emilia), Italia  
AAMS-Salvarani, Belgio  
Salvarani Rom, Romania

## Salvarani history

*My story begins in 1970, I was a young boy and my parents Giovanna and Italo were working for an important sprayer manufacturer, "Carpi Pompe". For this reason, we were often talking about these products and after the school I used to help my father and visit trade fairs with him.*

*After my studies I started working in the same company in the department dedicated to innovative machines, such as the "black box" and electronic controllers. At that time, those machines were among the most advanced ones on the Italian market, and were mounting a "foam marker" imported from the US. There I saw an innovation to start a company.*

*Pier Giorgio Salvarani*

*Salvarani company starts in 1983 in a garage in Poviglio in the heart of Emilia Romagna, a region which boasts a long history in agricultural machinery and its components.*

### Most important stages:

1983 First foam marker produced in Italy  
1985 DPA Spraymatic Electronic and electrical controls  
1986 Hand-wash tank and stabilizing springs for booms  
1992 Distribution of Davis Weather stations  
1995 Distribution of TeeJet nozzles  
2006 Production branch in Romania  
2010 Production of test equipment  
2012 Take-over of AAMS company

Nowadays Salvarani is a dynamic company offering a complete range of products and components for agricultural machinery and slow-motion equipment.

### Salvarani priorities:

- Innovation
- Working precision
- Product reliability
- Assistance and after sale support
- Environmental protection

All this results in high technological standard products and specialized services able to guarantee competitiveness and economic advantages to manufacturing companies, sales networks and end users.

Furthermore, the company offers its experience to develop customized projects according to customers' needs.

Salvarani products are classifiable into 4 main categories:

Accessories for agriculture and slow-motion machinery.

Precision measuring systems for sprayers' calibration and certification.

Electrical and electronic components.

Oil free compressors for vehicles.

Salvarani supports its production with some exclusive brands for the Italian market: TeeJet® with nozzles and spraying accessories, SHURflo® with 12 Volt diaphragm pumps and Davis Instruments® with weather stations.

### The company has 3 offices in Europe:

Salvarani s.r.l. Head office in Poviglio (Reggio Emilia), Italy  
AAMS-Salvarani in Belgium  
Salvarani Rom in Romania

## Histoire Salvarani

*C'est en 1970 que tout a commencé, quand mes parents Giovanna et Italo travaillaient pour la société "Officine Carpi".*

*Après le travail nous avions l'habitude de parler des produits de "Officine Carpi".*

*Je m'étais dédié dans le secteur de l'agriculture, qui était en pleine évolution.*

*Après mes études, je commençai aussi à travailler pour "Officine Carpi", où j'entrais en contact avec machines innovantes comme la "Boîte Noire" et les boîtes de command électronique.*

*Dans ces composants j'ai vu l'idée d'un produit pour commencer mon activité: le Traceur à mousse.*

*Pier Giorgio Salvarani*

*Pier Giorgio Salvarani*

*La maison Salvarani débute en 1983 dans un garage de Poviglio au cœur de l'Emilie-Romagne, une région qui a une longue histoire dans le domaine des machines agricoles et de ses composants.*

### Les principales étapes:

1983 Premier traceur à mousse produit en Italie  
1985 Electroniques DPA Spraymatic et commandes électriques  
1986 Réservoir lave-mains et ressorts de stabilisation  
1992 Représentant de vente exclusive des stations météo Davis  
1995 Représentant de Vente des buses et porte-buses TeeJet/Spraying Systems Co.  
2006 Filiale de production en Roumanie  
2010 Production d'unités de test  
2012 Acquisition de la société belge AAMS.  
Maintenant Salvarani est une maison dynamique qui offre une gamme complète de produits et de composants pour l'agriculture.

### Les priorités de la maison Salvarani sont:

- Innovation
- Travailler avec précision
- Fiabilité du produit
- Service et support après-vente
- Protection de l'environnement

Il en résulte un produit standard de haute technologie et des services spécialisés pour assurer la compétitivité et les avantages économiques aux entreprises manufacturières, aux réseaux de vente et aux utilisateurs.

La société propose également son expertise pour le développement de projets personnalisés en fonction des besoins des clients.

Les produits Salvarani sont classés en quatre catégories principales:

Accessoires pour l'agriculture et hors route machines.

Systèmes de mesure de précision pour l'étalonnage et la certification de pulvérisateurs.

Des composants électriques et électroniques.

Compresseurs secs pour les voitures.

Salvarani élargit sa propre production avec certaines marques, exclusivement pour le marché italien, TeeJet® pour les buses et accessoires pour la pulvérisation, pompe à membrane SHURflo® Pentair et DAVIS pour les stations météorologiques.

### La maison Salvarani dispose de trois sites en Europe:

la siège à Poviglio, Reggio Emilia, en Italie, AAMS-Salvarani en Belgique et Salvarani ROM en Roumanie.





## Geschichte von Salvarani

*Meine Geschichte fängt 1970 an. Ich war damals noch ein Junge und meine Eltern Giovanna und Italo arbeiteten damals für "Carpi Pompe", einen wichtigen Hersteller von Pflanzenschutzspritzen. Deshalb sprachen wir oft über diese Produkte und nach der Schule half ich meinem Vater und besuchte einige Messen mit ihm.*

*Nach meinem Studium, habe ich in derselben Firma als meine Eltern gearbeitet. Ich arbeitete in der Abteilung für Innovationen, wie zum Beispiel das "black box" und elektronische Steuerungen gebildet wurden. Diese Geräte waren damals die meist modernen Geräte auf dem Italienischen Markt, auf denen den „Schaummarkierer“ importiert aus den Vereinigten Staaten montiert wurde. Dort habe ich eine Neuerung gesehen, um eine Unternehmen zu gründen.*

*Pier Giorgio Salvarani*

*Die Firma Salvarani wurde 1983 in einer Garage in Poviglio -das Herz von Emilia Romagna- gestiftet. Diese Gegend hat eine schon eine lange Tradition mit landwirtschaftlichen Maschinen und Zubehör.*

### Die wichtigsten Höhepunkte:

- 1983 Erster Schaummarkierer wird in Italien hergestellt
- 1985 DPA Spraymatic Elektronik und elektronische Steuerung
- 1986 Hand-wasch Behälter und Abstandhalter für Spritzgestänge
- 1992 Verteilung von Davis Wetterstationen
- 1995 Verteilung von TeeJet-Düsen
- 2006 Produktionsabteilung in Rumänien
- 2010 Herstellung von Prüfgeräten
- 2012 Übernahme von AAMS

Heutzutage ist Salvarani eine dynamische Firma mit einer erweiterten Produkt- und Komponentenpalette für landwirtschaftliche Maschinen und Slow-Motion-Ausrüstung.

### Prioritäten von Salvarani

- Innovationen
- Arbeitsgenauigkeit
- Zuverlässigkeit der Produkte
- Unterstützung und Kundendienst
- Umweltschutz

Dies alles führt dazu, dass wir Ihnen hochtechnische Standardprodukte und spezialisierte Dienstleistungen anbieten können, sodass Wettbewerbsfähigkeit und wirtschaftlich Vorteile sowohl den Produktionsfirmen als den Vertriebsnetzen und Endkunden garantiert werden kann.

Die Salvarani Produkte können in 4 Hauptklassen verteilt werden:

Zubehör für landwirtschaftliche Maschinen und Slow-Motion-Ausrüstung  
Präzise Prüfungsgeräte für die Kalibrierung und Zertifizierung der Spritz- und Sprüngeräte

Elektrische und elektronische Komponente

Öl freie Kompressoren

Salvarani benutzt und verteilt auch einige Marke exklusiv für den Italienischen Markt:

TeeJet® Düsen und Spritzenzubehör, SHURflo® 12 Volt Membranpumpe und Davis Instruments® Wetterstationen.

### Salvarani hat drei Zweige in Europa:

Salvarani s.r.l. Hauptsitz in Poviglio (Reggio Emilia), Italien

AAMS-Salvarani Handelsvertreter in Maldegem, Belgien  
Salvarani Rom Produktionsabteilung in Segarcea, Rumänien

## Salvarani history

*Povestea mea a început în 1970, eram băiat și părinșii mei Giovanna și Italo lucrau într-o companie importantă de pulverizatoare "Carpi Pompe". Se vorbea adesea despre aceste produse; după școală îl ajutam pe tatăl meu și împreună cu el vizitam târgurile de profil.*

*După terminarea studiilor, am început să lucrez în aceeași companie unde am urmat mașinile inovatoare, cu produse precum "cutia neagră" și comenziile electronice. În acel moment, acele mașini se numărau printre cele mai avansate pe piața italiană și montau un "marcator cu spuma" importat din SUA. Am văzut o inovație pentru a crea o companie.*

*Pier Giorgio Salvarani*

Salvarani sa născut în 1983 într-un garaj din Poviglio, în inima regiunii Emilia Romagna, o regiune cu o lungă istorie în domeniul mașinilor agricole și a componentelor acestora

### Cele mai importante etape:

- 1983 Primul marcator cu spuma produs în Italia
- 1985 DPA Spraymatic Control și comenzi electrice
- 1986 Rezervoare de spalat și arcuri stabilizatoare
- 1992 Distribuția stațiilor meteo Davis
- 1995 Distribuția duzelor TeeJet
- 2006 Filiala de producție în România
- 2010 Producția bancurilor de testare pentru pulverizatoare
- 2012 Achiziționarea companiei AAMS

Astăzi Salvarani este o dinamică companie care oferă o gamă completă de produse și componente pentru mașini agricole cu lentă mișcare.

### Prioritățile Salvarani:

- Inovare
- Precizie de lucru
- Fiabilitatea produselor
- Asistența și suport după vânzare
- Protecția mediului

Acest lucru are ca rezultat produse de înalte standarde tehnologice și servicii specializate pentru a asigura competitivitatea și beneficiile economice pentru producători, rețele de vânzări și utilizatori.

Compania oferă de asemenea propria experiență în dezvoltarea de proiecte personalizate în funcție de nevoile clienților.

Produsele Salvarani sunt clasificate în patru categorii principale:

Accesorii pentru agricultură și utilaje cu mișcare lentă.

Sisteme de măsurare de precizie pentru calibrarea și certificarea pulverizatoarelor.

Componente electrice și electronice.

Compressoare pentru autovehicule.

Salvarani a alăturat producției proprii branduri exclusive pentru piața italiană: TeeJet® pentru duze și accesorii de pulverizare, SHURflo® pentru pompe cu membrana 12V și Davis Instruments® pentru stații meteorologice.

### Compania are 3 locații în Europa:

Salvarani s.r.l. Sediul central Poviglio (Reggio Emilia), Italia

AAMS-Salvarani, Belgia

Salvarani Rom, România





## Box P50

IP43

- Realizzata in poliammide (PA6+30GF);
- 3 alloggiamenti per fusibili a lama (posti sul lato inferiore);
- 2 passaggi per i cavi con fermacavo (posti sul lato posteriore);
- supporto di fissaggio snodato con 7 diversi angoli di regolazione;
- grado di protezione IP43.



## Box P50

IP43

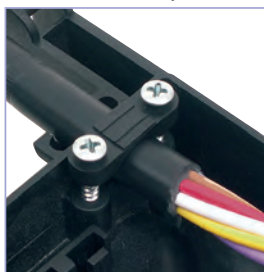
- Box for electric controls made in polyamide (PA6+30GF);
- 3 housings for blade fuses (located on the lower side);
- 2 cable passages with fastener (located on the rear side);
- swivel fixing support with 7 different adjusting corners;
- IP43 protection.



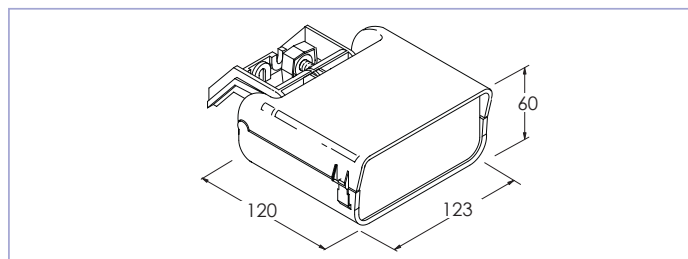
760146



Cavallotto bloccafusibile (x3)  
Fuse locking jumper (x3)

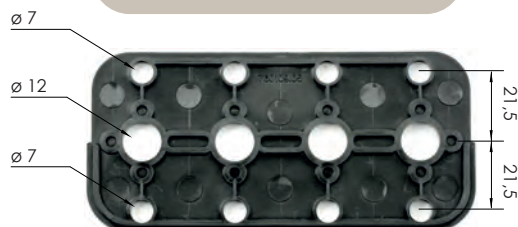


Fino a 3 fusibili  
Up to 3 fuses



| Cod.      | Material  | Color               | IP Grade |    |
|-----------|-----------|---------------------|----------|----|
| 760105    | Polyamide |                     | IP43     | 10 |
| 760105-Y  |           |                     |          | 10 |
| 760105-G  |           |                     |          | 10 |
| 760105-GR |           |                     |          | 10 |
| 760146    |           | Fuse locking jumper |          | 50 |

ET474



760109.05

ET475



760109.01



760109

| Cod.      | Description           | Material      | # | LED |    |
|-----------|-----------------------|---------------|---|-----|----|
| 760109.01 | Front panel w/ holes  | Polypropylene | 5 | 10  | 10 |
| 760109.03 | Front panel w/ holes  | Aluminium     | 6 | 0   | 10 |
| 760109.05 | Front panel w/ holes  | Polypropylene | 4 | 8   | 10 |
| 760109    | Front panel w/o holes | Aluminium     | 0 | 0   | 1  |
| ET474     | 4 holes sticker       |               |   |     | 1  |
| ET475     | 5 holes sticker       |               |   |     | 1  |

## **Box A56 / A110**

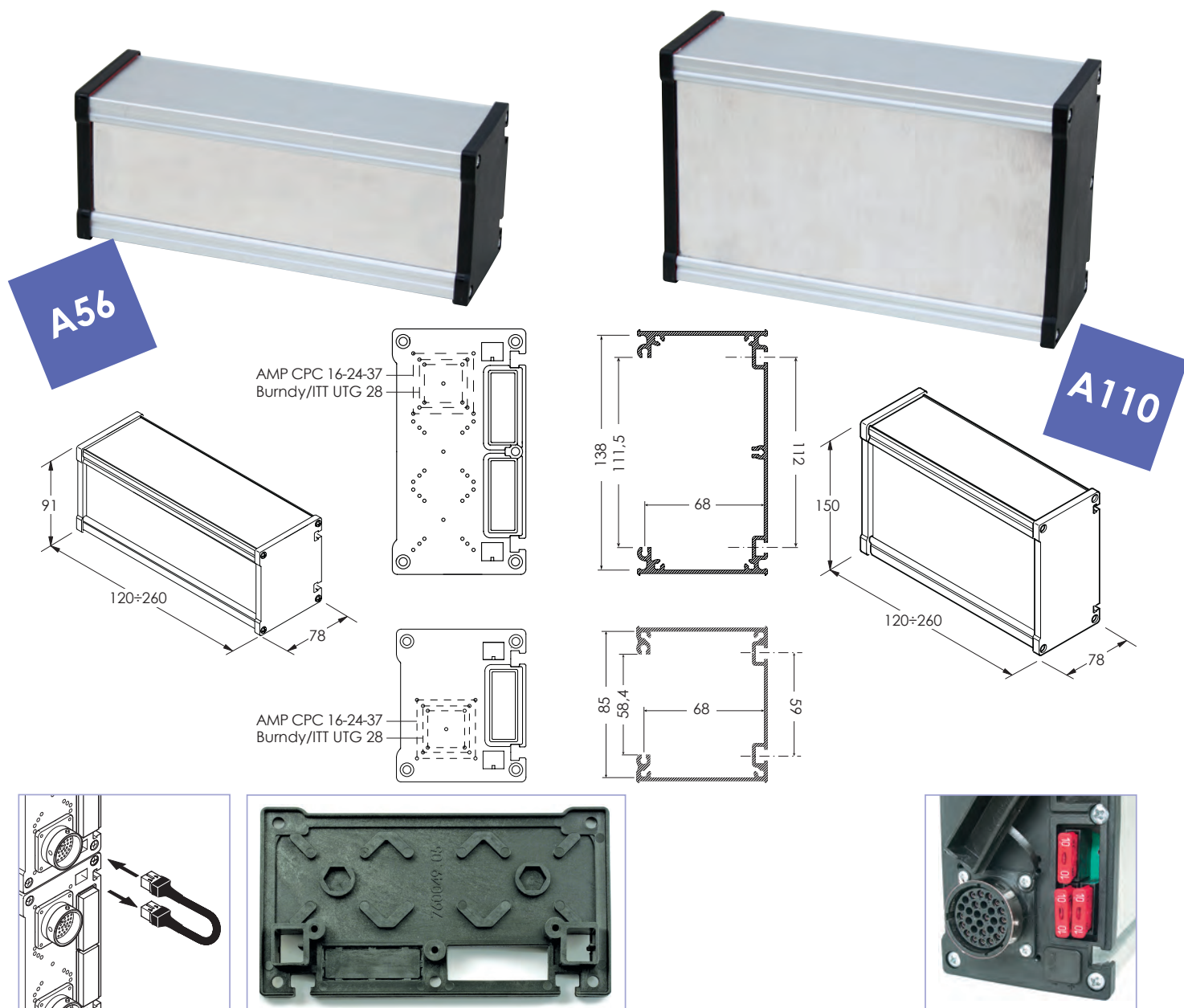
Profilo di alluminio, disponibile in diverse lunghezze.  
 • scheda portafusibili per fusibili a lama completa di relè di accensione con protezione contro l'inversione di polarità;  
 • alimentazione passante IN-OUT;  
 • guide posteriori per il fissaggio;  
 • grado di protezione fino a IP54 (versioni con doppie chiusure laterali);

## **P54**

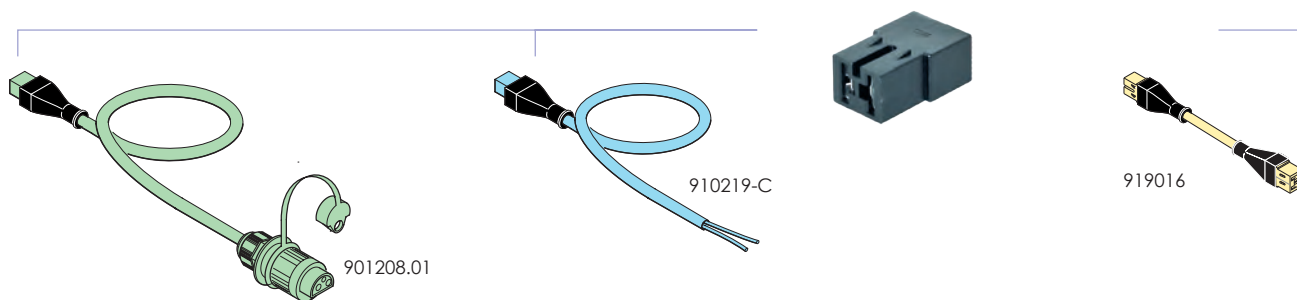
## **Box A56 / A110**

Aluminium profile available in various lengths.  
 • fuse board for blade fuses with starter relay for reverse polarity protection;  
 • feedthrough power;  
 • rear fixing guides;  
 • IP54 protection (versions with double lateral closing).

## **IP54**



## **Cavo di alimentazione per box A56/A110 -** **Power cable for A56/A110 boxes**



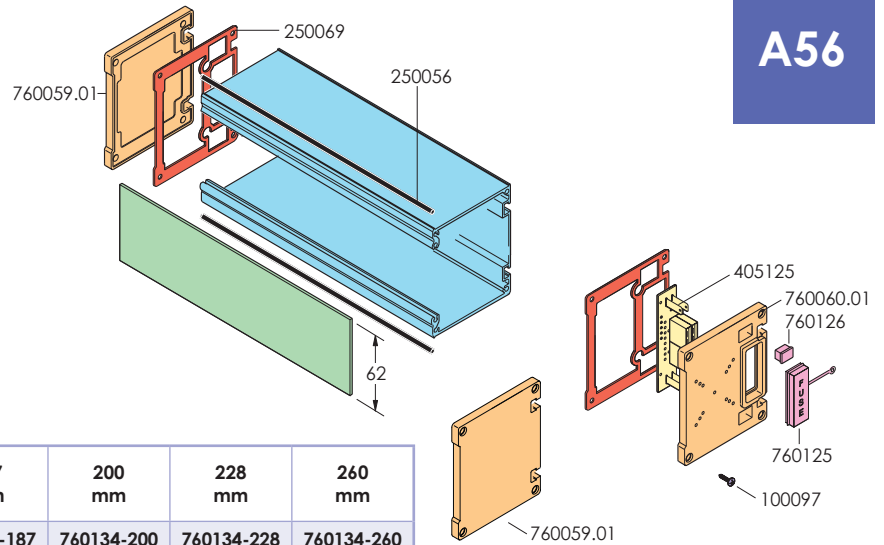
| Cod.      | Refer.      | Wires Section (mm²) | Connectors type | L (m) |   |
|-----------|-------------|---------------------|-----------------|-------|---|
| 901208.01 | <div></div> | 2 x 2,5             | 25A plug        | 2     | 1 |
| 910219-C  | <div></div> | 2 x 2,5             | not connected   | 2     | 1 |
| 919016    | <div></div> | 2 x 2,5             | female faston   | 0,1   | 1 |



# A56

| Cod.      | Refer.                                                                            |  |
|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 250069    |  | 2                                                                                 |
| 250056    |  | mt.                                                                               |
| 405125    |  | 1                                                                                 |
| 760059.01 |  | 1                                                                                 |
| 760060.01 |  | 1                                                                                 |
| 100097    |  | 100                                                                               |
| 760125    |  | 1                                                                                 |
| 760126    |  | 1                                                                                 |

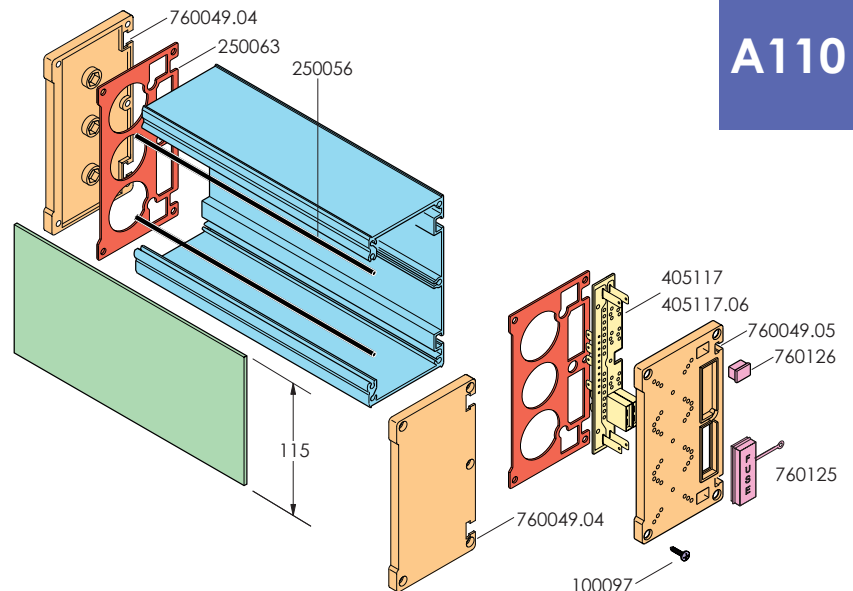
| Ref.                                                                              | 90 mm     | 120 mm     | 160 mm     | 187 mm     | 200 mm     | 228 mm     | 260 mm     |
|-----------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|------------|------------|
|  | 760134-90 | 760134-120 | 760134-160 | 760134-187 | 760134-200 | 760134-228 | 760134-260 |
|  | -         | 760138-120 | 760138-160 | 760138-187 | -          | 760138-228 | 760138-260 |



# A110

| Cod.      | Refer.                                                                              |  |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 250063    |  | 2                                                                                   |
| 250056    |  | mt.                                                                                 |
| 405117    |  | 1                                                                                   |
| 405117.06 |  | 1                                                                                   |
| 760049.04 |  | 1                                                                                   |
| 760049.05 |  | 1                                                                                   |
| 100097    |  | 10                                                                                  |
| 760125    |  | 1                                                                                   |
| 760126    |  | 1                                                                                   |

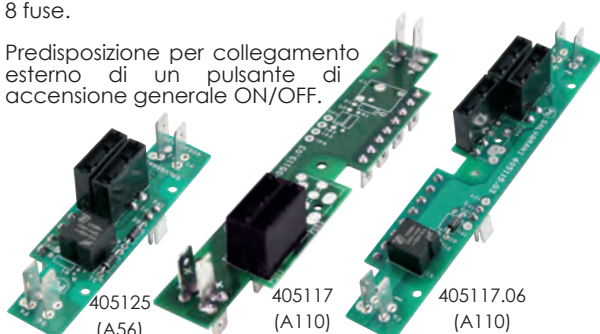
| Ref.                                                                                | 120 mm     | 125 mm     | 140 mm     | 160 mm     | 170 mm     | 175 mm     | 187 mm     | 200 mm     | 228 mm    | 260 mm     | 350 mm     |
|-------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|
|  | 760123.01  | 760133-125 | 760133-140 | 760133-160 | 760133-170 | 760133-175 | 760094.01  | 760133-200 | 760048.01 | 760072.01  | 760133-350 |
|  | 760057-120 | -          | -          | 760057-160 | -          | 760057-175 | 760057-187 | -          | 760057    | 760057-260 | 760133-350 |



## Schede Alimentazione

- Scheda portafusibili con fusibili a lama STD;
- relè di accensione con protezione contro inversione di polarità;
- l'interruttore agisce sul relè attivando le connessioni interne;
- corrente massima 25 A. A56 max 4 fuse, A110 max 8 fuse.

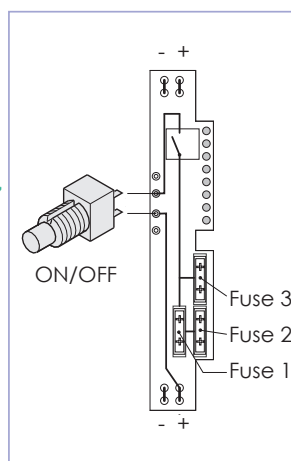
Predisposizione per collegamento esterno di un pulsante di accensione generale ON/OFF.



## Power boards

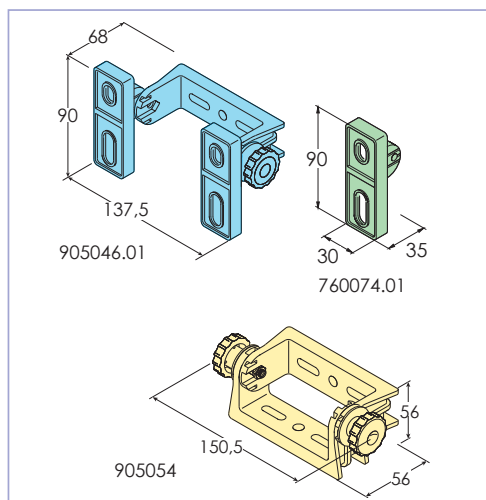
- Fuse board with STD blade fuses;
- starter relay with polarity inversion protection;
- internal connections activated via switch;
- max current 25A. A56 max 4 fuse, A110 max 8 fuse

Set-up for external connection of ON/OFF button.



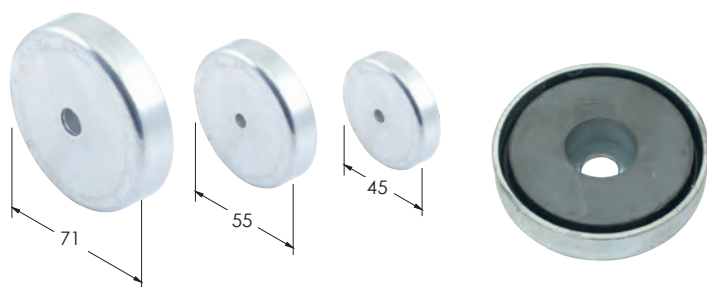
| Cod.      | Box  | n° STD | Relais Relè | A  |
|-----------|------|--------|-------------|----|
| 405125    | A56  | 2      | •           | 25 |
| 405117    | A110 | 2      | •           | 25 |
| 405117.06 | A110 | 3      | •           | 25 |

## Supporti per Box - Supports for Boxes



| Cod.      | Description                   |   |
|-----------|-------------------------------|---|
| 905046.01 | Adjustable swivel support kit | 1 |
| 760074.01 | Plastic support               | 1 |
| 905054    | Adjustable swivel support kit | 1 |

## Magneti per fissaggio box - Magnets for box fixing



| Cod.   | Kg MAX         | ø (mm) | ø (mm) |   |
|--------|----------------|--------|--------|---|
| 401906 | 7              | 45     | 4,5    | 1 |
| 401907 | 13             | 55     | 6,5    | 1 |
| 401908 | 22             | 71     | 10,5   | 1 |
| 760339 | Box fixing kit |        |        | 1 |

## Supporto metallico RAM-B - RAM-B Mount metal support

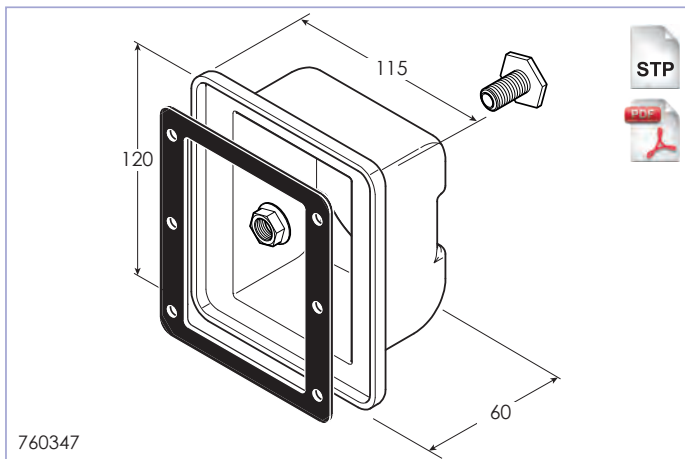


| Cod.      | Cod. RAM    | Description                   |   |
|-----------|-------------|-------------------------------|---|
| 760213    | RAM B 166-U | Swivel support w/ suction cup | 1 |
| 760213.01 | RAM B 201U  | Swivel support RAM-B          | 1 |
| 760213.02 | RAM B 238U  | Ball swivel support RAM-B     | 1 |

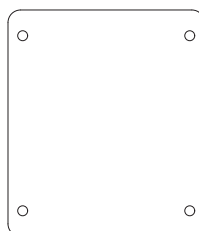
| Cod.      | Cod. RAM  | Description                    |   |
|-----------|-----------|--------------------------------|---|
| 760260    | -         | Swivel support w/o suction cup | 1 |
| 760260.01 | RAM 201-U | Swivel support body            | 1 |
| 760260.02 | RAM 202-U | Swivel support sphere          | 1 |

## Box ABS 115x120

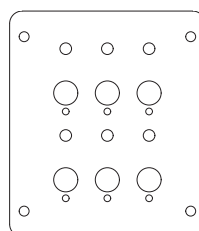
IP65



ET476



760334

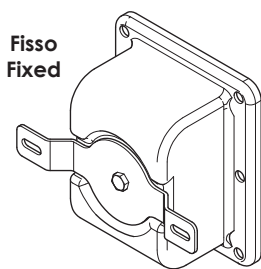


760334.01

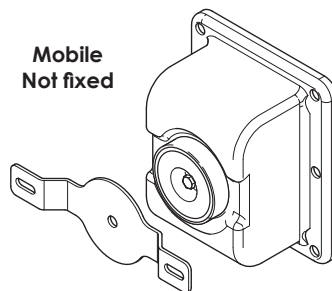
| Cod.      | Description           | Material | # | IP Grade |   |
|-----------|-----------------------|----------|---|----------|---|
| 760347    | Kit Power box 4       | ABS      |   | IP65     | 1 |
| 760334    | Front panel w/o holes | Aluminum | - |          | 1 |
| 760334.01 | Front panel w/ holes  | Aluminum | 6 |          | 1 |
| ET476     | Sticker               |          |   |          | 1 |

## Esempi di utilizzo del kit supporto - Kit support example use

Kit 760339



Fisso  
Fixed



Mobile  
Not fixed

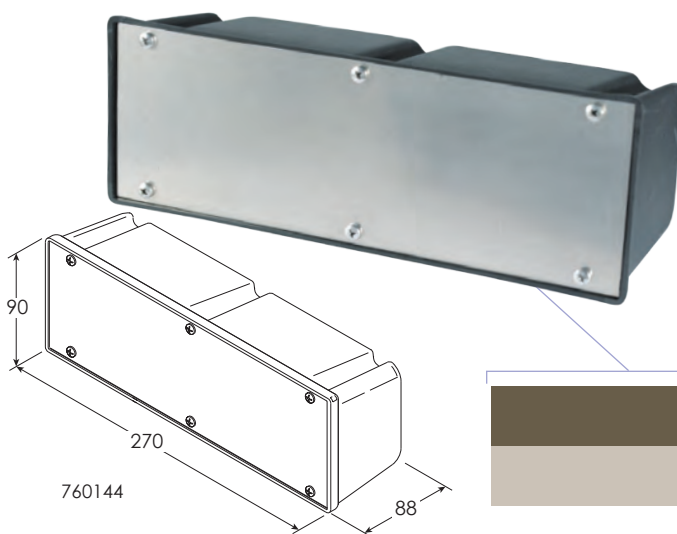


## ABS Box 270x90

IP64

## ABS Box 150x90

IP64



760144



ET477



760145

| Cod.   | Description  | Material | # | # LED | IP Grade |   |
|--------|--------------|----------|---|-------|----------|---|
| 760144 | Kit Box P270 | ABS      |   |       | IP64     | 1 |
| ET477  | Sticker      |          |   |       |          | 1 |

| Cod.   | Description  | Material | # | IP Grade |   |
|--------|--------------|----------|---|----------|---|
| 760145 | Kit Box P150 | ABS      |   | IP64     | 1 |
| ET477  | Sticker      |          |   |          | 1 |



Box ABS P140-P180

IP54



760503



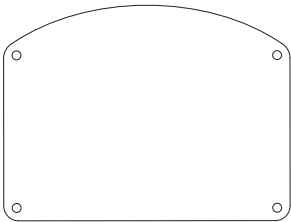
760216



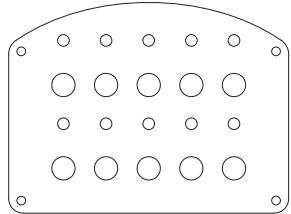
760502.01



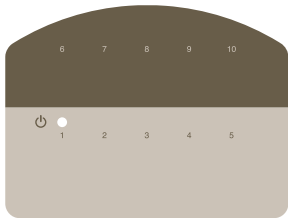
760506



760218

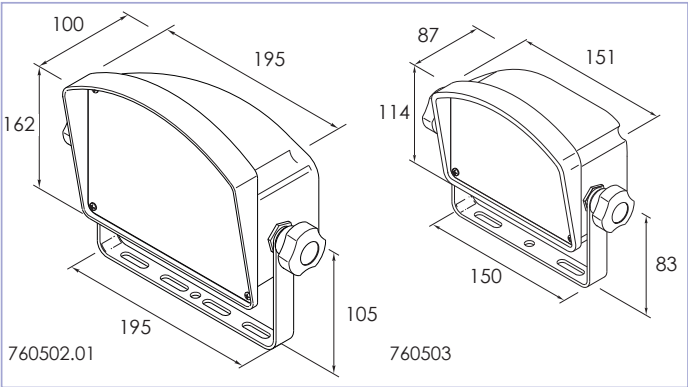


760220



ET478

| Cod.      | Description                             | Material | #  | IP Grade |   |
|-----------|-----------------------------------------|----------|----|----------|---|
| 760500    | Kit box P140                            | ABS      |    | IP54     | 1 |
| 760503    | Kit box P140 w/ support                 |          |    |          | 1 |
| 760506    | Kit box P140 w/ support w/o front panel |          |    |          | 1 |
| 760218    | Aluminium panel w/o holes               | Aluminum | -  |          | 1 |
| 760220    | Aluminium panel w/ holes                | Aluminum | 10 |          | 1 |
| ET478     | Sticker w/ 1-10 numbering               |          |    |          | 1 |
| 760501    | Kit box P180                            | ABS      |    | IP54     | 1 |
| 760502.01 | Kit box P180 w/ support                 | ABS      |    |          | 1 |
| 760505    | Kit box P180 w/ support w/o front panel | ABS      |    |          | 1 |



## Bracciolo Full - Armrest Full

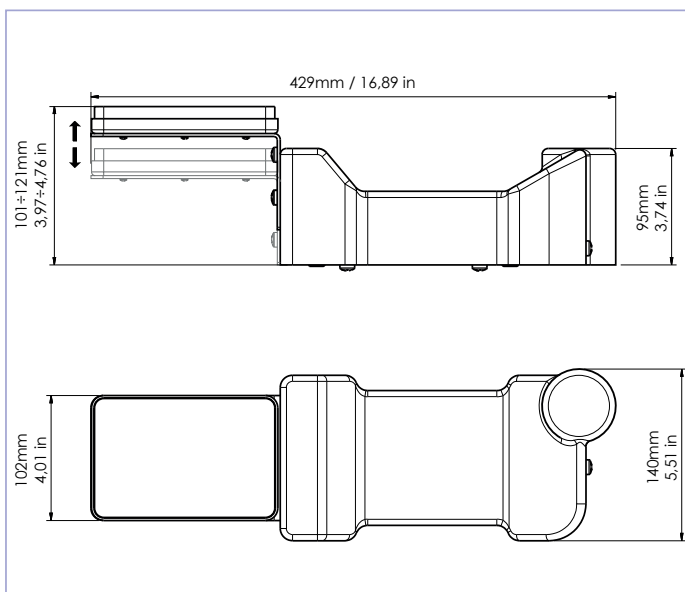
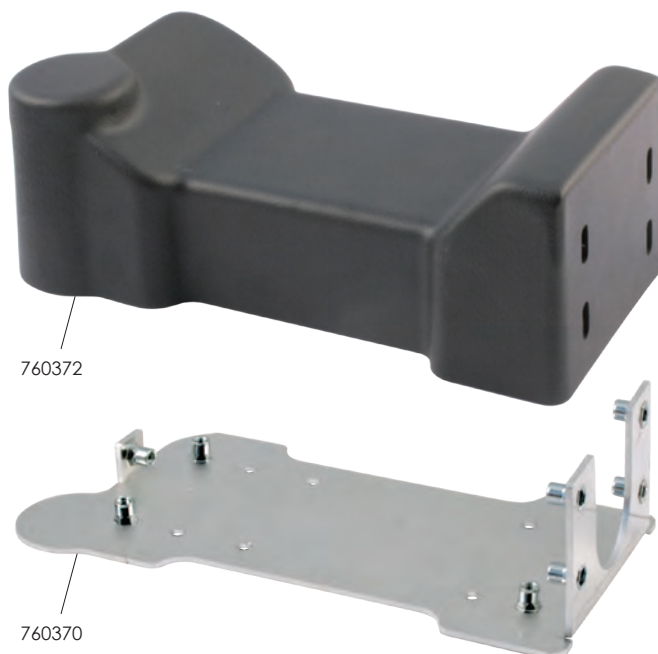
  Soluzione ergonomica per il comando di sistemi elettroidraulici. Possibilità di integrare joystick con base mobile a doppio asse. Varie configurazioni realizzabili.

 Ergonomic solution to control electrohydraulic systems. Possibility to integrate 2-axes joystick handles.

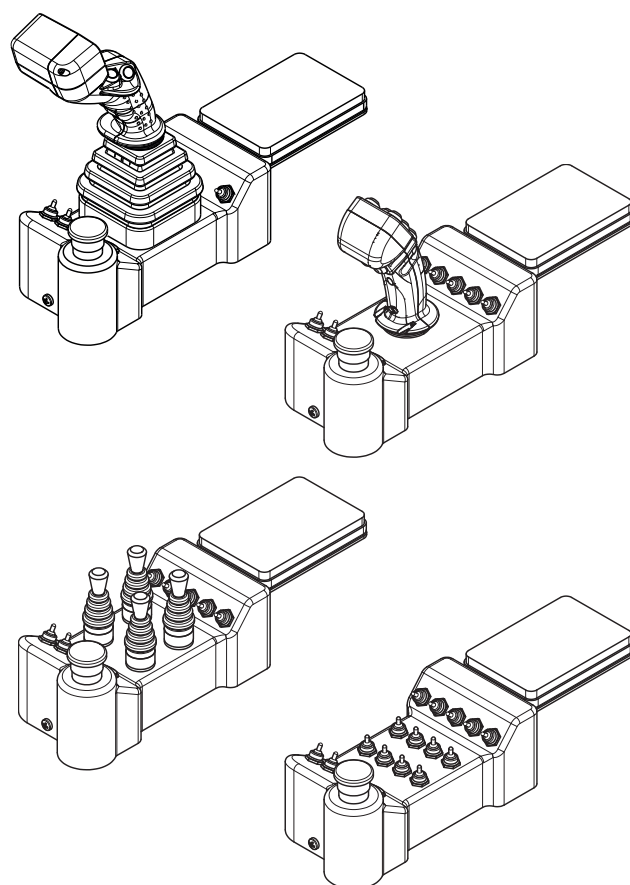
Various configurations possible.

Nota: 760376 necessario solo in caso di montaggio joystick.

Note: 760376/760377 needed only when mounting joysticks.



| Cod.   | Description                                               | Material          |  |
|--------|-----------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|
| 760370 | Armrest closing plate                                     | Aluminum          | 1                                                                                   |
| 760372 | Armrest carter                                            | ABS               | 1                                                                                   |
| 760374 | Back plate + Padding                                      | Aluminum/ABS/EPDM | 1                                                                                   |
| 760376 | Joystick support plate                                    | Aluminum          | 1                                                                                   |
| 760377 | 2 axes on-off joystick support plate (David Brown, Faber) | Aluminum          | 1                                                                                   |
| 760384 | 2 axes prop. joystick support plate (SDA, Unify, Walvoil) | Aluminum          | 1                                                                                   |



Esempi di assemblaggio - Assembly examples

Bracciolo Slim - Armrest Slim



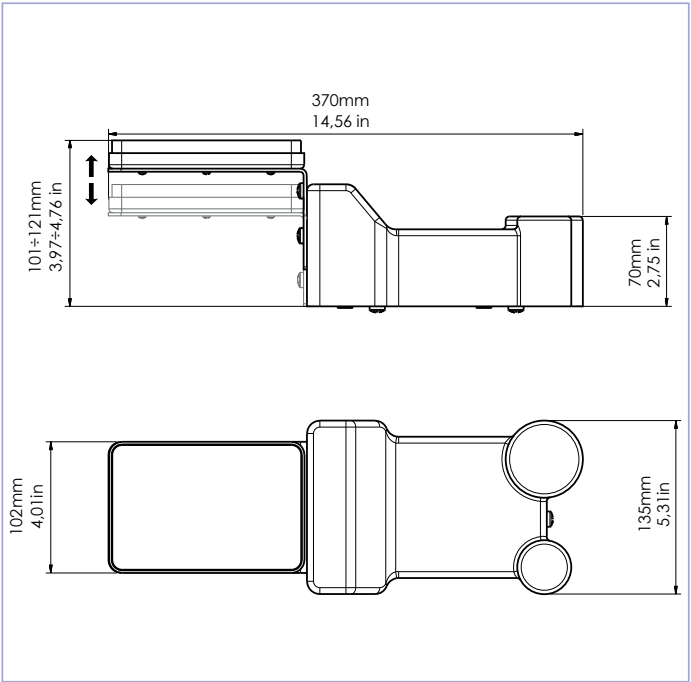
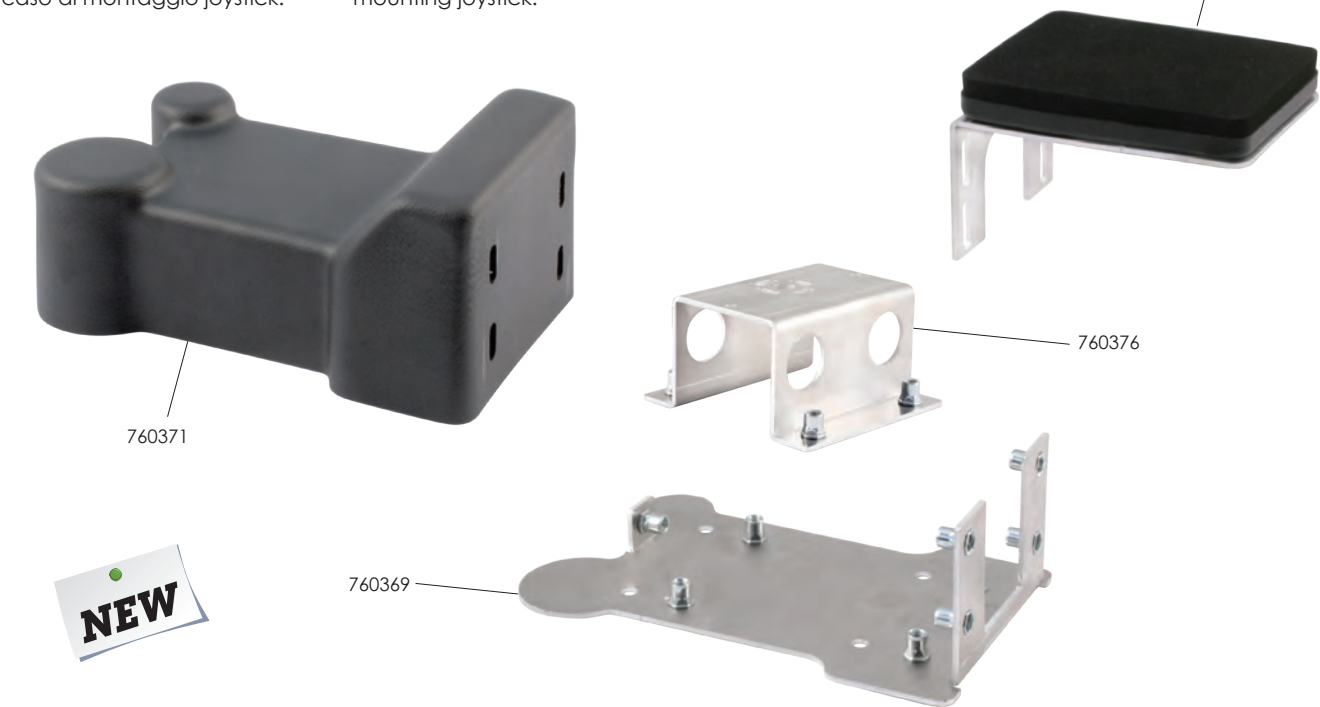
Soluzione ergonomica per il comando di sistemi elettroidraulici. Varie configurazioni realizzabili.



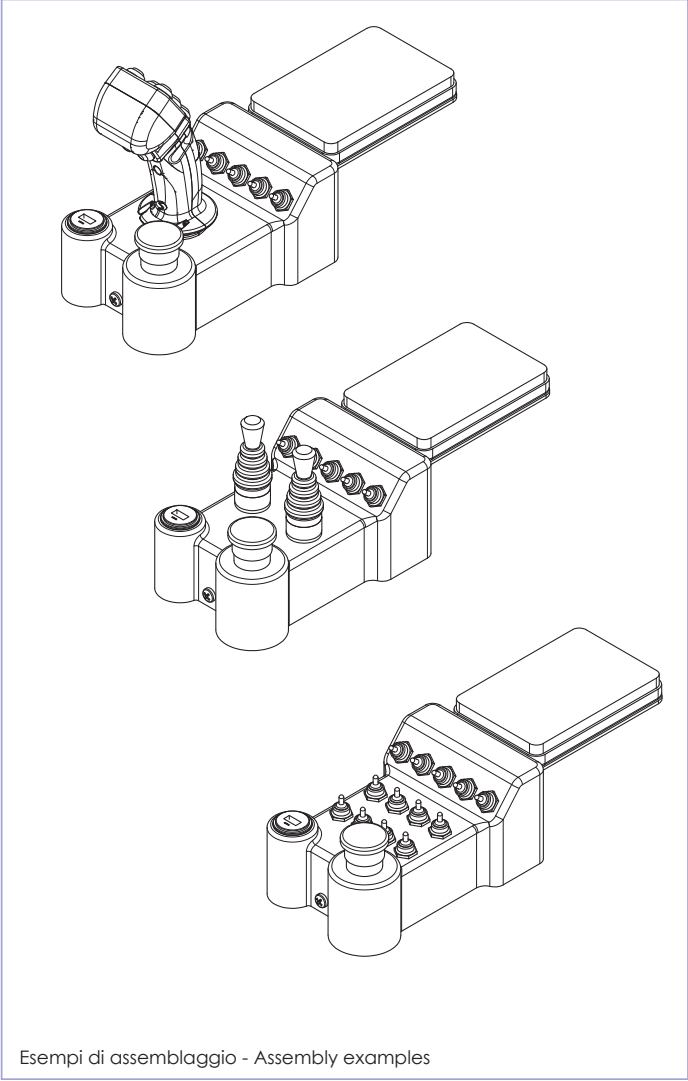
Ergonomic solution to control electrohydraulic systems. Various configurations possible.

Nota: 760376 necessario solo in caso di montaggio joystick.

Note: 760376 needed only when mounting joystick.



| Cod.   | Description            | Material              |  |
|--------|------------------------|-----------------------|-------------------------------------------------------------------------------------|
| 760369 | Armrest closing plate  | Aluminum              | 1                                                                                   |
| 760371 | Armrest carter         | ABS                   | 1                                                                                   |
| 760374 | Back plate + Padding   | Aluminum/ABS/<br>EPDM | 1                                                                                   |
| 760376 | Joystick support plate | Aluminum              | 1                                                                                   |
|        |                        |                       |                                                                                     |



Esempi di assemblaggio - Assembly examples



# Joystick CN 4+4

IP43



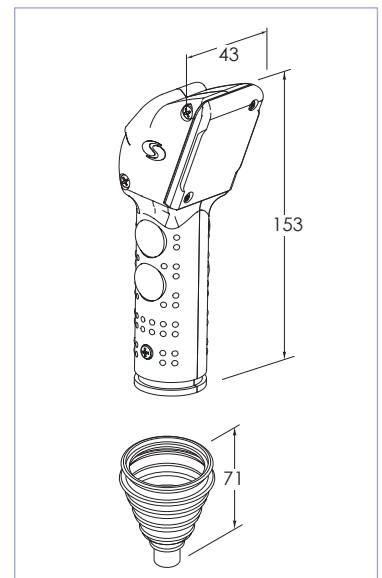
Frontalini senza foratura con predisposizione fino a 4 fori ø12. Front panels without holes suitable for up to 4 holes ø12.

760242.01 Frontalino con foratura rettangolare per interruttori tipo K. 760242.01 Front panel with rectangular hole for switches type K.

Dimensione spacco 22 x 29,80. Hole size 22x29,80. Joystick suitable for up to 4 holes ø12.

| Int. # | Front Panel | Int. # | Handle |
|--------|-------------|--------|--------|
| A/B 4  |             | G 2    |        |
| G 4    |             | G 2    |        |
| E/F 4  |             | G 2    |        |
| K 1    |             | G 2    |        |

Esempi delle configurazioni disponibili  
Examples of possible configurations



| Cod.      | Description                     | Material       | # | IP Grade |   |
|-----------|---------------------------------|----------------|---|----------|---|
| 760236    | Kit joystick 4                  | Polyamide      |   |          | 1 |
| 760238    | Bellow for joystick 4           | Nitrile rubber |   | IP43     | 1 |
| 760236.03 | Ring                            | ABS            |   |          | 1 |
| 760242    | Front panel flat w/o holes      | Polyamide      | - |          | 1 |
| 760242.01 | Front panel w/ rectangular hole | Polyamide      | - |          | 1 |
| 760242.02 | Front panel w/ holes            | Polyamide      | 2 |          | 1 |
| 760242.03 | Front panel w/ holes            | Polyamide      | 1 |          | 1 |
| 760242.04 | Front panel w/ holes            | Polyamide      | 3 |          | 1 |
| 760242.05 | Front panel w/ holes            | Polyamide      | 4 |          | 1 |
| 760242.06 | Front panel w/ holes            | Polyamide      | 3 |          | 1 |
| 760321    | Front panel inclined w/o holes  | Polyamide      | - |          | 1 |

Joystick CN 4+2

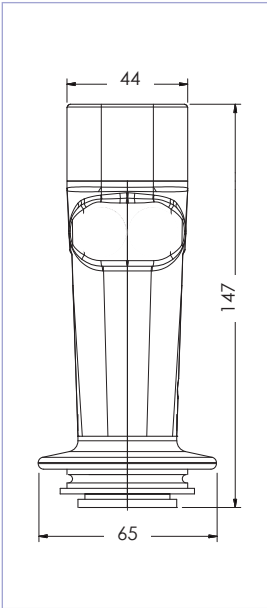
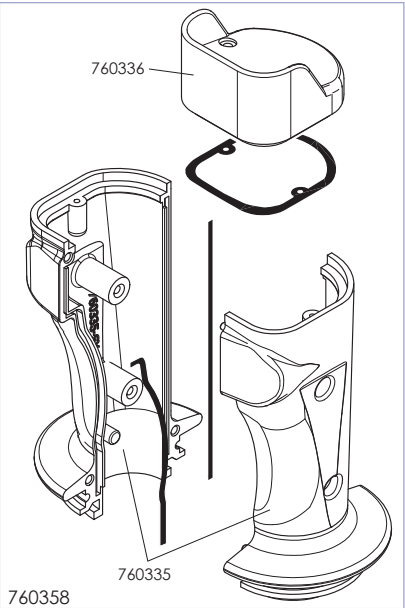
IP66



NEW



760358-Kit



| Cod.   | Description  | Material  | IP Grade |   |
|--------|--------------|-----------|----------|---|
| 760358 | Joystick 4+2 | Polyamide | IP66     | 1 |

| Int. # | Front Panel | Int. # | Handle |
|--------|-------------|--------|--------|
| G 4    |             | G 2    |        |
| M/O 1  |             | G 2    |        |

Esempi delle configurazioni possibili  
Examples of possible configurations

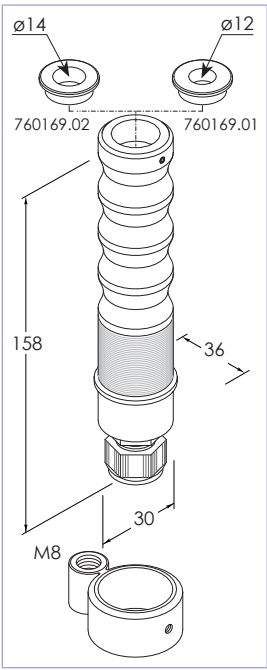
Joystick con predisposizione per 4 fori ø12. Joystick suitable for up to 4 holes ø12.

Joystick 1

IP43



Impugnatura per interruttore tipo A-B-F-M dotato di supporto ad anello per fissaggio in cabina.  
 Handle for switch type A-B-F-M with ring support for cabin mounting.



| Cod.      | Description                         | Body Material    | IP Grade |   |
|-----------|-------------------------------------|------------------|----------|---|
| 760179    | Kit joystick 1 handle w/ cable grip | Polyoximethylene | IP43     | 1 |
| 760169.01 | Flange for button/switch            | Polyoximethylene |          | 1 |
| 760169.02 | Flange for "Otto" buttons           | Polyoximethylene |          | 1 |
| 760265    | Handle support w/ M8 ring           | Galvanized Steel |          | 1 |

# Joystick DX 6+2

IP41



760156-Kit

Joystick con 6 fori nel fronta- Joystick with 6 holes in the  
le e 2 nell'impugnatura, ø13. front panel and 2 in the handle,  
ø13.

| Int. # Ø | Front Panel | Int. # Ø | Handle |
|----------|-------------|----------|--------|
| A/B 6    |             | G 2      |        |
| E/F 6    |             | G 2      |        |
| G 6      |             | G 2      |        |

Esempi delle configurazioni disponibili  
Examples of possible configurations

| Cod.   | Description      | Material  | # Ø | IP Grade |   |
|--------|------------------|-----------|-----|----------|---|
| 760156 | Kit joystick 6+2 | Polyamide | 6+2 | IP41     | 1 |

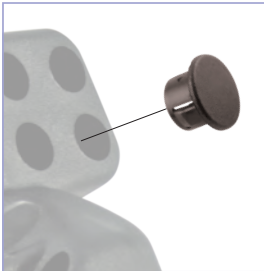
## Accessori Joystick - Joystick Accessories

Porta adesivi.  
Supporti lunghi/corti. Ver-  
sione in acciaio per una  
resa migliore su basi mo-  
bili idrauliche.

Sticker holder.  
Short / long supports.  
Stainless steel version for  
better performances on  
mobile hydraulic bases.



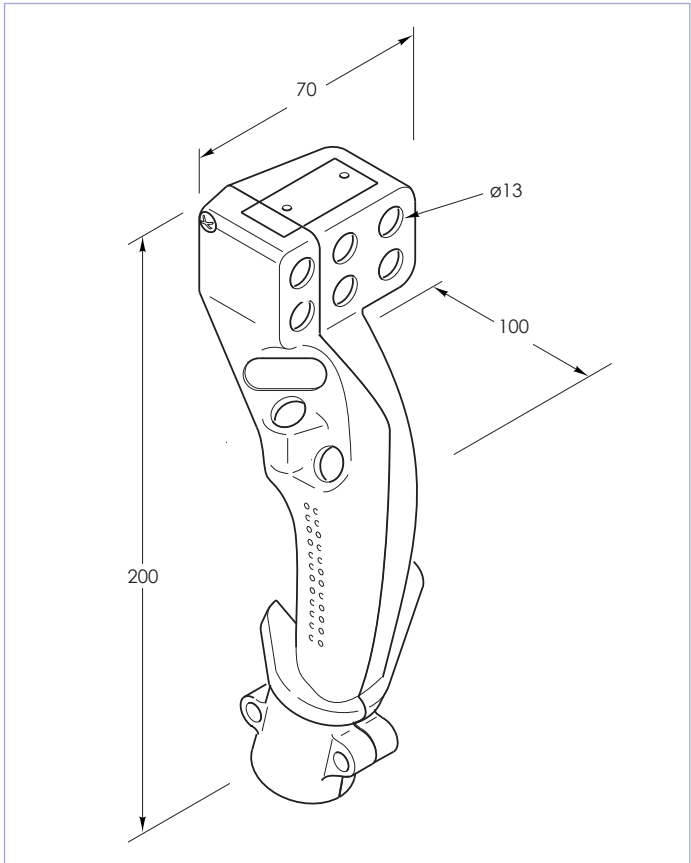
KIT 921004.01



400024 dettaglio / detail



921004 dettaglio / detail



| Cod.      | Description        |    |
|-----------|--------------------|----|
| 400024    | Snap cap D.12,7    | 50 |
| 921004.01 | Kit sticker holder | 1  |



Joystick DX 4+2

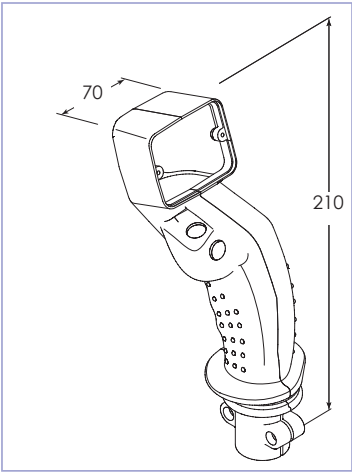
IP41

Joystick con predisposizione per 2 fori ø12.

Frontalino con predisposizione fino a 6 fori ø12.

Joystick suitable for 2 holes ø12.

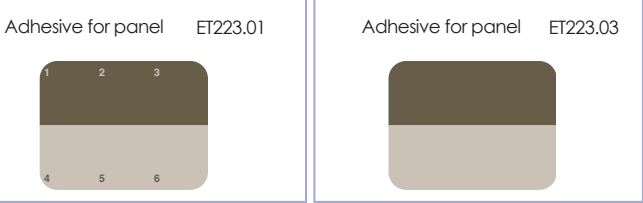
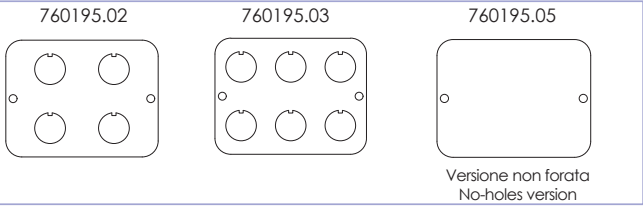
Front panel suitable for up to 6 holes ø12.



| Int. # | Front Panel | Int. # | Handle |
|--------|-------------|--------|--------|
| A/B 6  |             | G 2    |        |
| E/F 6  |             | G 2    |        |

Esempi delle configurazioni disponibili  
Examples of possible configurations

| Cod.      | Description              | Material  | # | IP Grade |   |
|-----------|--------------------------|-----------|---|----------|---|
| 760191    | Kit joystick 4/6+2       | Polyamide |   | IP41     | 1 |
| 760195.02 | Front panel w/ holes     | Aluminium | 4 |          | 1 |
| 760195.03 | Front panel w/ holes     |           | 6 |          |   |
| 760195.05 | Front panel w/o holes    |           | - |          |   |
| ET223.01  | Sticker w/ 1-6 numbering |           |   |          | 1 |
| ET223.03  | Sticker w/o numbering    |           |   |          |   |



Accessori Joystick - Joystick Accessories



| Cod.      | Description                 | Body Material    | Threading |   |
|-----------|-----------------------------|------------------|-----------|---|
| 760237    | Bushing for 4 axes Joystick | Polyamide        | M10       | 1 |
| 760073    | Bushing for Joystick        | Polyamide        | M12       | 1 |
| 760073.01 | Bushing for Joystick        | Polyamide        | M10       | 1 |
| 760073.02 | Bushing for Joystick        | Galvanized Steel | M12       | 1 |
| 760394    | Bushing for Joystick        | Aluminum         | UNF7/8    | 1 |

## Joystick DX 8+2

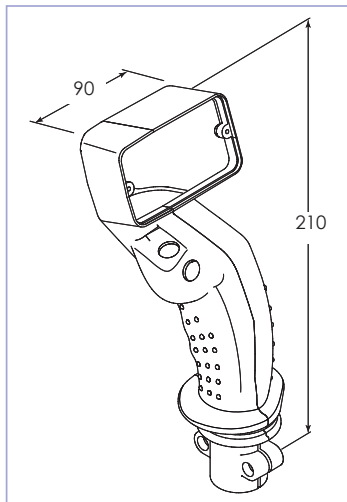
IP41

 Joystick con predisposizione per 2 fori Ø12.

Frontalini abbinabili con 8 o 11 fori, Ø12.

 Joystick suitable for 2 holes Ø12.

Combinable front panels with 8 or 11 holes, Ø12.



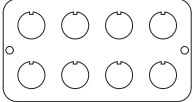
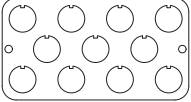
| Int. # Ø | Front Panel                                                                        | Int. # Ø | Handle                                                                             |
|----------|------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------|
| A/B 8    |   | G 2      |   |
| E/F 8    |  | G 2      |  |

Esempi delle configurazioni disponibili  
Examples of possible configurations

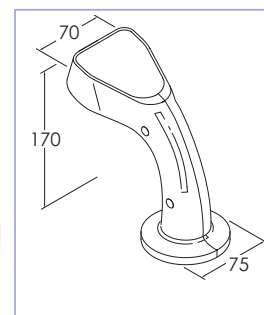
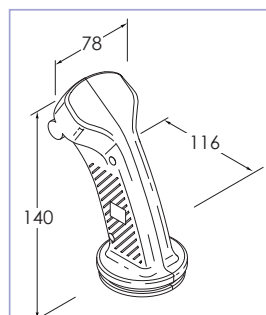
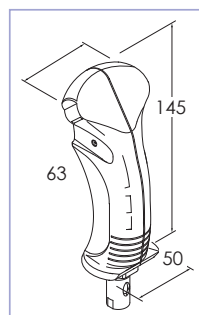
| Cod.      | Description              | Material  | # Ø | IP Grade |  |
|-----------|--------------------------|-----------|-----|----------|-------------------------------------------------------------------------------------|
| 760168    | Kit joystick 8/11+2      | Polyamide |     | IP41     | 1                                                                                   |
| 760195    | Front panel w/ holes     | Aluminium | 8   |          | 1                                                                                   |
| 760195.01 | Front panel w/ holes     |           | 11  |          |                                                                                     |
| 760195.04 | Front panel w/o holes    |           | -   |          |                                                                                     |
| ET223     | Sticker w/ 1-8 numbering |           |     |          | 1                                                                                   |
| ET223.02  | Sticker w/o numbering    |           |     |          |                                                                                     |



760168- Kit

|                                                                                      |                                                                                       |                                                                                       |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 760195                                                                               | 760195.01                                                                             | 760195.04                                                                             |
|  |  |  |
| non forata<br>no-holes                                                               |                                                                                       |                                                                                       |
| Adhesive for panel ET223                                                             |                                                                                       | Adhesive for panel ET223.02                                                           |
|  |                                                                                       |  |

## Joystick commerciali - Commercial joysticks



A B E F G

| Cod.      | "Man here" Button |  |
|-----------|-------------------|-------------------------------------------------------------------------------------|
| 921080    |                   | 1                                                                                   |
| 921071    | .                 | 1                                                                                   |
| 921071.01 |                   | 1                                                                                   |
| 921071.02 |                   | 1                                                                                   |

A B E F G

| Cod.      |  |
|-----------|-------------------------------------------------------------------------------------|
| 760157    | 1                                                                                   |
| 921041.01 | 1                                                                                   |
| 921041.02 | 1                                                                                   |

A B E F G

| Cod.      | "Man here" Button |  |
|-----------|-------------------|---------------------------------------------------------------------------------------|
| 921076    |                   | 1                                                                                     |
| 921068    | .                 | 1                                                                                     |
| 921068.01 |                   | 1                                                                                     |
| 921068.02 |                   | 1                                                                                     |

Joystick CN 8+4

IP66

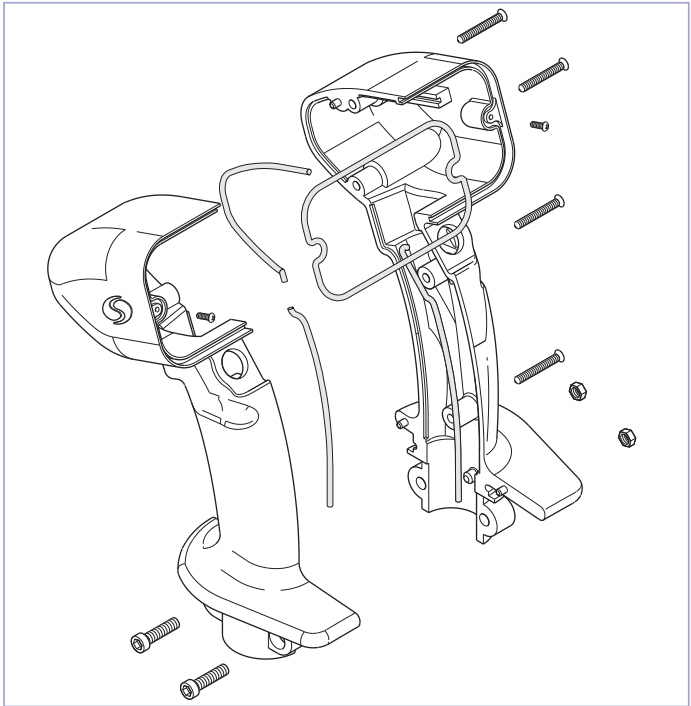
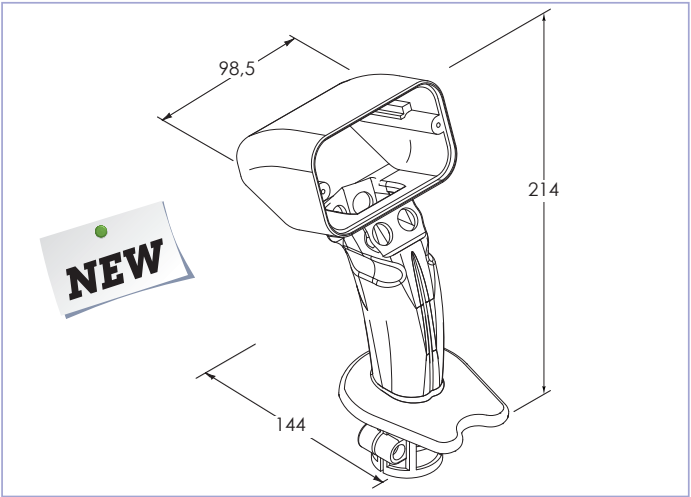
Joystick con 2 fori sul lato anteriore dell'impugnatura, predisposizione per 2 fori sul lato posteriore, ø12. Joystick with 2 holes on the front side of the handle, suitable for 2 holes on the rear side, ø12.

Combinabili front panels with 8 or 11 holes, ø12.

Frontalini abbinabili con 8 o 11 fori, ø12.

| Int. # | Front Panel | Int. # | Handle |
|--------|-------------|--------|--------|
| E/F 8  |             | G 2+2  |        |
| G 11   |             | G 2+2  |        |

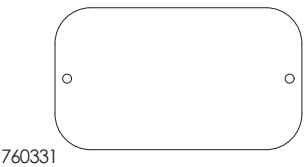
Esempi delle configurazioni disponibili  
Examples of possible configurations



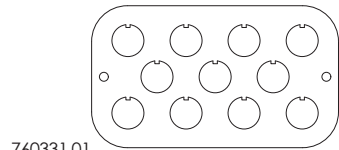
Foratura posteriore a richiesta  
Rear drilling upon request



Foratura standard  
Standard drilling



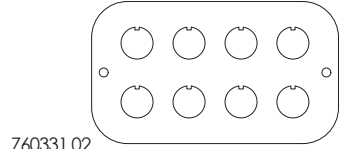
760331



760331.01



ET479



760331.02

| Cod.      | Description           | Material  | #  | IP Grade |   |
|-----------|-----------------------|-----------|----|----------|---|
| 760330    | Kit joystick 8/11+4   | Polyamide |    | IP66     | 1 |
| 760331    | Front panel w/o holes | Aluminium | -  |          | 1 |
| 760331.01 | Front panel w/ holes  | Aluminium | 11 |          | 1 |
| 760331.02 | Front panel w/ holes  | Aluminium | 8  |          | 1 |
| ET479     | Sticker w/o numbering |           |    |          | 1 |

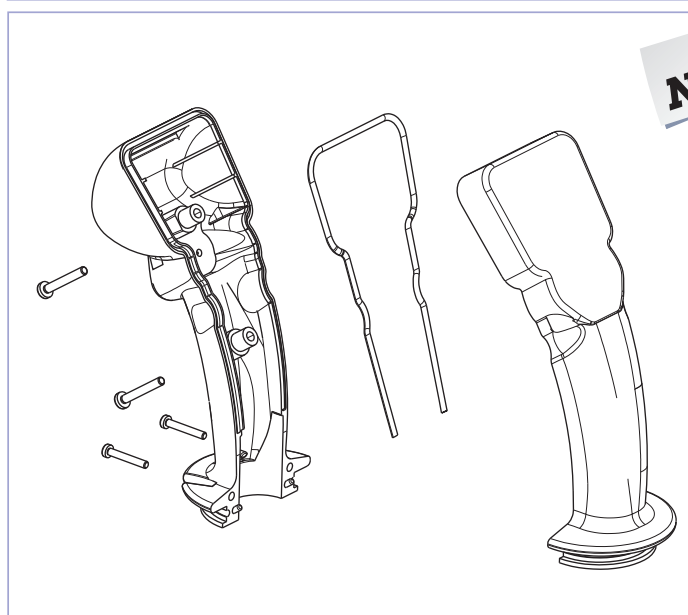
## Joystick CN 7+2

IP66

 Joystick con predisposizione fino a 7 fori nella parte anteriore e 2 fori nella parte posteriore, ø12.  Joystick suitable for up to 7 holes on the front side and 2 holes on the rear side, ø12.

| Int. # | Front Panel                                                                       | Int. # | Handle                                                                            |
|--------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| G 7    |  | G 2    |  |

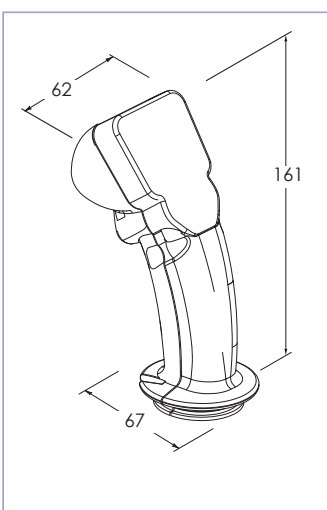
Esempi delle configurazioni disponibili  
Examples of possible configurations



| Cod.   | Description      | Material  | # | IP Grade |   |
|--------|------------------|-----------|---|----------|---|
| 760357 | Kit joystick 7+2 | Polyamide |   | IP66     | 1 |



760357-Kit



Foratura posteriore  
Rear drilling

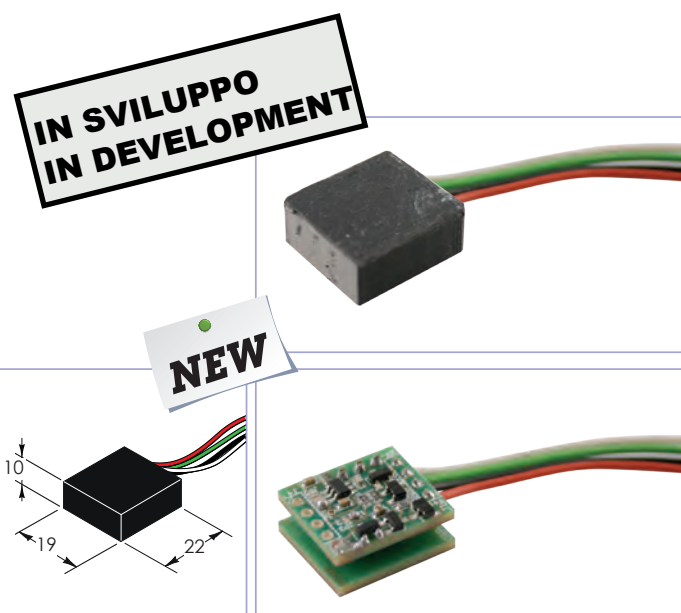
## Sensore Uomo Presente - Capacitive sensor

 Sensore capacitivo con uscita on/off che segnala la presenza della mano. Alimentazione 5-15 V, consumo 50uA, uscita 100mA.  Capacitive sensor with on / off output that indicates the presence of the hand. Power supply 5-15 V, power consumption 50uA, 100mA output.

Può essere usato associato a plastica ed altri materiali, non idoneo al collegamento con i metalli. Utilizzabile sui joystick (funzione uomo presente) o per svariate applicazioni.

It can be used in combination with plastic and other materials, not suitable for connection with metals. Can be used on joysticks (dead man function) or for various applications.

| Cod.   | Description                      |   |
|--------|----------------------------------|---|
| 405237 | Sensore Uomo Presente X Joystick | 1 |

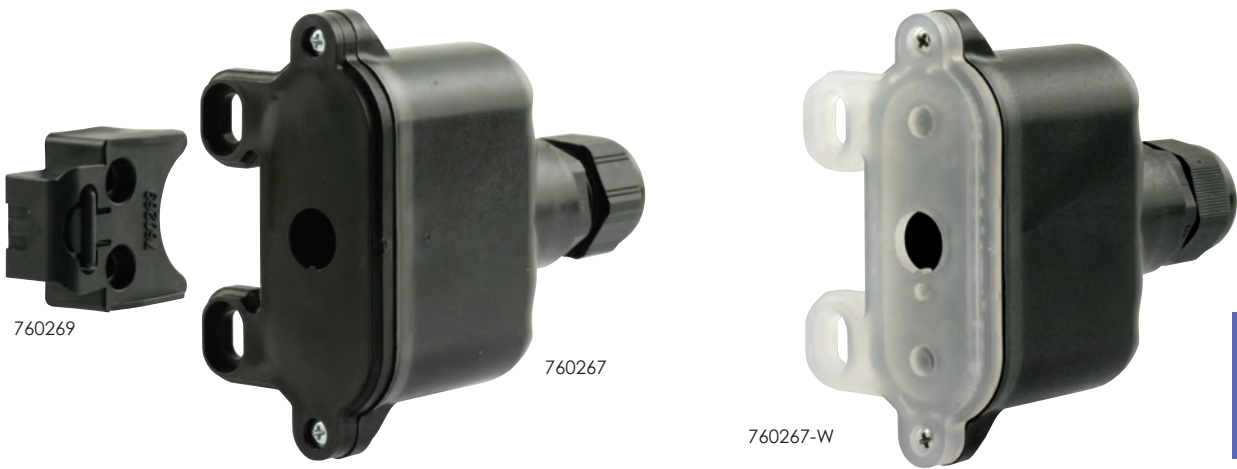




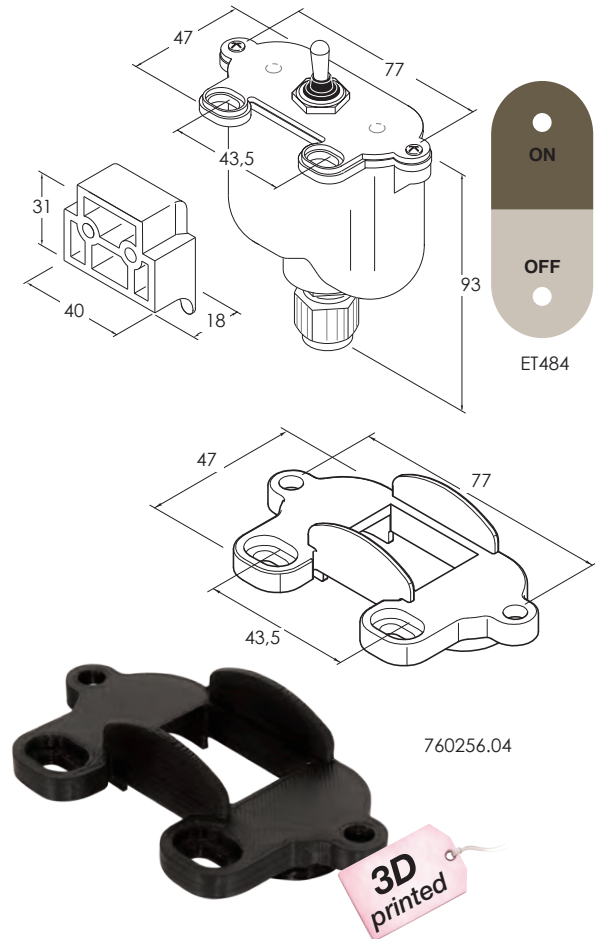
Box P24

IP66

Box compatto a tenuta IP66 per interruttori tipo A-B-C-D-E-F-G-K. Frontale in materiale nero o traslucido per montaggio LED interni. Compact box with IP66 protection for switches type A-B-C-D-E-F-G-K. Black or translucent front panel for LEDs mounting.



P24



| Int. # Ø  | Front Panel | Int. # Ø | Handle |
|-----------|-------------|----------|--------|
| A/B/C/D 1 |             | G 1      |        |
| E/F 1     |             | K 1      |        |

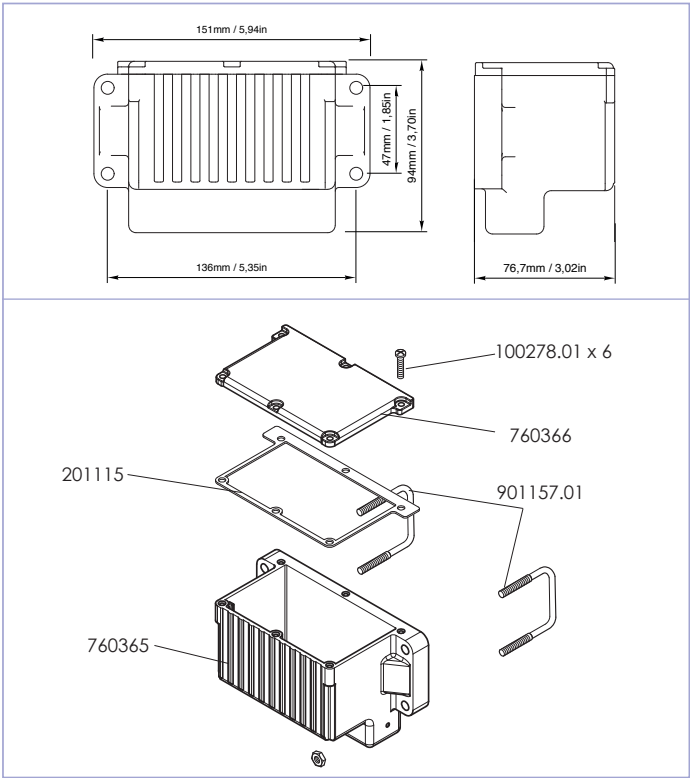
Esempi delle configurazioni disponibili  
Examples of possible configurations

| Cod.      | Description                                                      | Material  | # Ø | LED | IP Grade |   |
|-----------|------------------------------------------------------------------|-----------|-----|-----|----------|---|
| 760267    | Kit box P24 w/ support and cable gland - black front panel       | Polyamide | 1   | -   | IP66     | 1 |
| 760267-W  | Kit box P24 w/ support and cable gland - translucent front panel |           | 1   | 2   |          | 1 |
| 760256.02 | Black front panel w/ hole                                        | Polyamide | 1   | -   |          | 1 |
| 760256.03 | Translucent front panel w/ hole                                  |           | 1   | 2   |          | 1 |
| 760256.04 | 3D front panel w/ rectangular hole                               |           | 1   | -   |          | 1 |
| ET484     | Sticker                                                          |           |     |     |          | 1 |

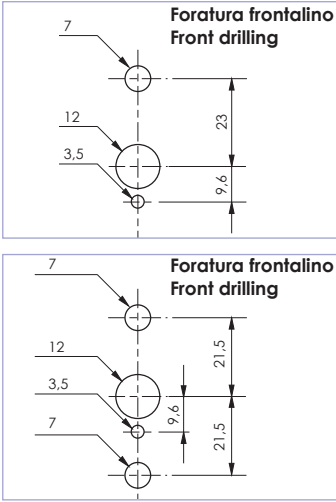
# Box 63 x 106

IP65

Scatola a tenuta IP65. Adatta per il comando diretto di elettrovalvole. IP65 sealed box. Suitable for direct control of solenoid valves.



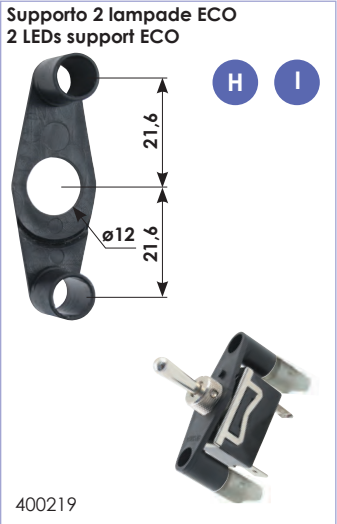
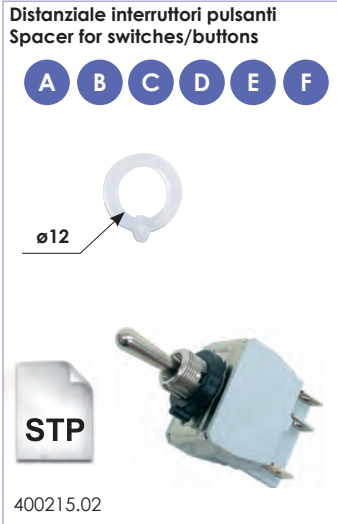
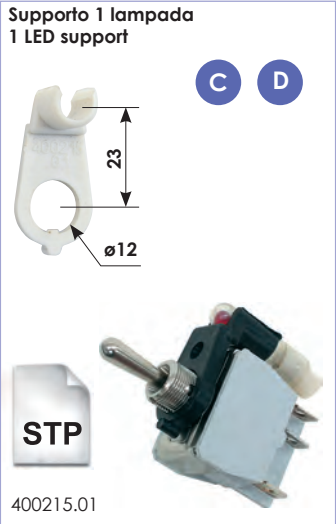
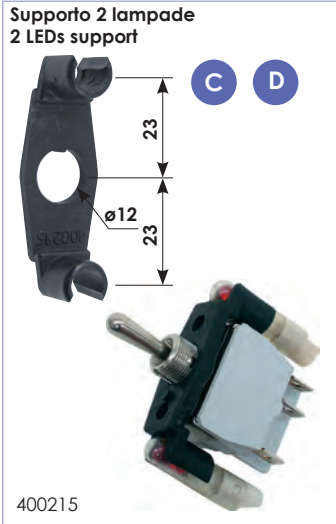
| Cod.      | Description  | Material |   |
|-----------|--------------|----------|---|
| 760365    | Box 63 x 106 | PA 66    | 1 |
| 760366    | Lid          | PA 66    | 1 |
| 901157.01 | Bracket      | Steel    | 1 |
| 201115    | Seal         | EPDM     | 1 |
| 100278.01 | Screw        | Steel    | 1 |



## Supporti per LED e distanziale - LED supports and spacer

Supporto per LED. Permette il montaggio di LED abbinati a un interruttore. Impediscono l'accidentale rotazione dell'interruttore. LED support. Enables fitting of LED's connected to a switch. Prevents accidental rotation of the switch.

| Cod.      | n° Lamps | Switch series |     |
|-----------|----------|---------------|-----|
| 400215.01 | 1        | APEM series   | 50  |
| 400215    | 2        |               | 50  |
| 400215.02 | -        |               | 100 |
| 400219    | 2        | ECO series    | 50  |





■ Evoluzione della Spina 25A con connessione a norma ISO 12369 standard sui trattori e indicazione di funzionamento. Fornito con guscio in plastica trasparente, è provvisto di LED per segnalare il corretto funzionamento: luce verde regolare, luce rossa difettoso.

1- Versione da 25A: LED verde polarità corretta, LED rosso polarità invertita.

2- Versione da 10A FUSE: LED verde funzionamento corretto, LED rosso fusibile interrotto.

3- Versione da 10A RELÈ e FUSE: LED verde funzionamento corretto, LED rosso fusibile interrotto. LED spento, alimentazione invertita.

■ Further development of the 25A plug, following ISO standard 12369 on tractors plugs. Transparent plastic body with LED to signal the correct functioning, green light: OK, red light: defect.

1- 25A version: green LED correct functioning, red LED inverted polarity.

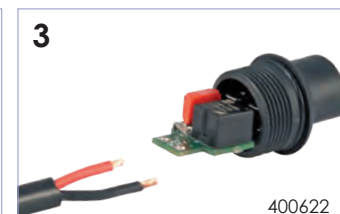
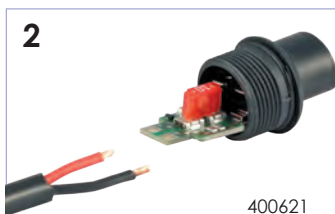
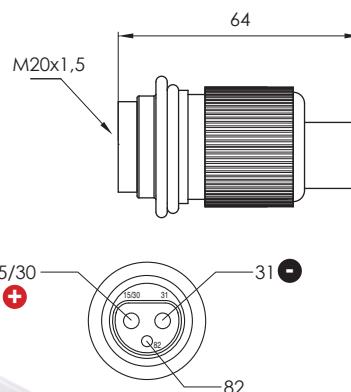
2- 10A FUSE version: green LED correct functioning, red LED fuse failure.

3- 10A RELAY and FUSE version: green LED correct functioning, red LED fuse failure. No LED, inverted polarity.



■ 3-pole plug according to ISO standard 12369 on tractors, 12/24V, 25A. The blister version includes faston 6.3.

■ Spina volante con connessione a norma ISO 12369 standard sui trattori, 12/24V, 25A. La versione blister include faston 6.3.

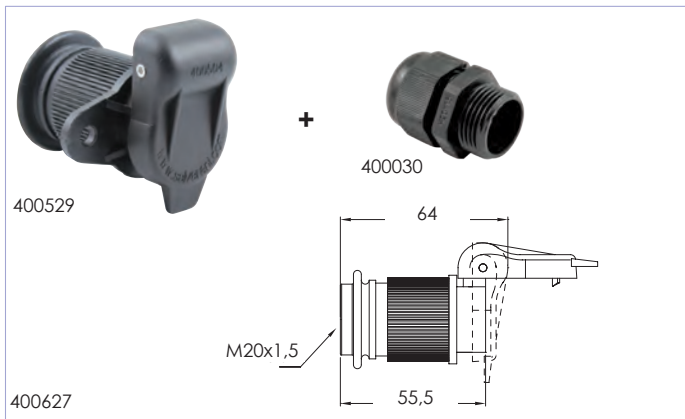


|   | Cod.      | Description                                     | LED     |   | V         | A  | Fuse |    |
|---|-----------|-------------------------------------------------|---------|---|-----------|----|------|----|
|   |           |                                                 |         |   |           |    |      |    |
| 0 | 400628    | 3 poles Plug                                    | /       | / | 12/24 VDC | 25 | -    | 25 |
|   | BL-400554 | Kit blister 3-poles plug w/ cable gland M20x1,5 | /       | / | 12/24 VDC | 25 | -    | 1  |
| 1 | 400625    | 3 poles Plug with LED 12V                       | Inverse | √ | 12 VDC    | 25 | -    | 10 |
|   | BL-400625 | Kit blister 3 poles Plug with LED 12V           | Inverse | √ | 12 VDC    | 25 | -    | 1  |
| 2 | 400621    | 3 poles Plug with LED + Fuse 12V                | Fuse    | √ | 12 VDC    | 10 | 10   | 10 |
|   | BL-400621 | Kit blister 3 poles Plug with LED + Fuse 12V    | Fuse    | √ | 12 VDC    | 10 | 10   | 1  |
| 3 | 400622    | 3 poles Plug with LED / Relè / Fuse             | Fuse    | √ | 12 VDC    | 10 | 10   | 10 |
|   | BL-400622 | Kit blister 3 poles Plug with LED / Relè / Fuse | Fuse    | √ | 12 VDC    | 10 | 10   | 1  |

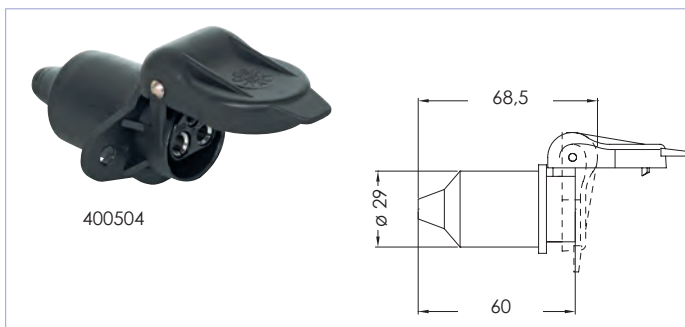
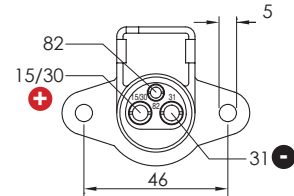


## ■ ■ Prese 3 poli 25A - ■ ■ 25A 3-poles sockets

ISO 12369



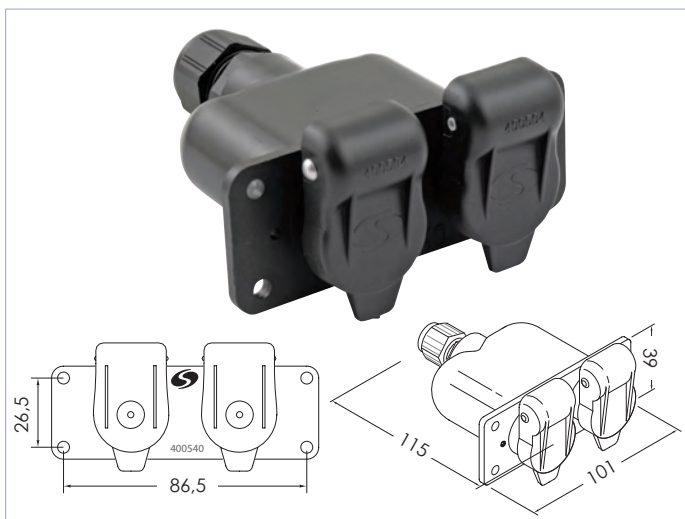
■ ■ Presa utilizzabile in modali- ■ ■ Socket to be used both mo-  
tà mobile o fissa, connessione a- tile or fixed, connection accord-  
norma ISO 12369, 12/24V, 25A. ing to ISO 12369, 12/24V, 25A.  
Faston 6,3 inclusi nella versione Blister version includes 6,3 faston.  
blister.6,3 faston.



BL-400504

| Cod.      | Description                | V         | A  |    |
|-----------|----------------------------|-----------|----|----|
| 400627    | 3 poles Socket             | 12/24 VDC | 25 | 25 |
| 400504    | 3 poles Socket             | 12/24 VDC | 25 | 25 |
| BL-400504 | Kit blister 3-poles socket | 12/24 VDC | 25 | 1  |

## ■ ■ Doppia presa 3 poli 25A - ■ ■ 25A 3-poles double sockets



BL-400540

■ ■ Kit doppia presa abbinata, ■ ■ Double socket kit, connec-  
connessione a norma ISO 12369, tion according to ISO 12369,  
12/24V, 2x25A. Faston 6,3 inclusi Blister version includes  
nella versione blister. 6,3 faston.

| Cod.      | Description                       | Volt      | A      |   |
|-----------|-----------------------------------|-----------|--------|---|
| BL-400540 | Kit blister double 3-poles socket | 12/24 VDC | 2 x 25 | 1 |

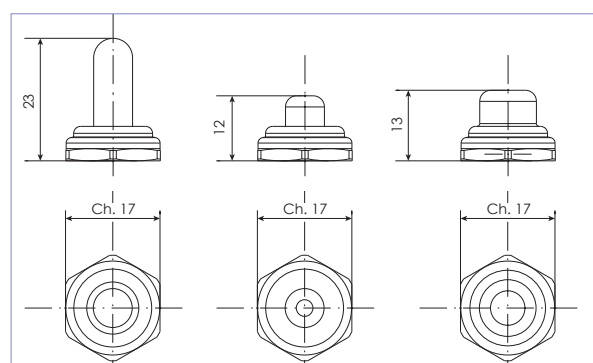


## Capucci in silicone per interruttori e pulsanti IP66

Capucci in ottone nickelato e silicone per interruttori e pulsanti. Protezione da polvere, sabbia e acqua. Disponibili in vari colori; con rondella di montaggio stampata o con OR integrato.

## Silicone caps for switches and buttons IP66

Nickel-plated brass and silicone caps for switches and buttons. Protection against dust, sand and water. Available in various colours; with mounting washer or integrated O-ring.



E' consigliato spruzzare del lubrificante tipo SP 7 ADESIL (antiadesivo al polixilossane) all'interno dei cappucci, prima del montaggio, per ridurre gli attriti ed evitare la rottura degli stessi.

We recommend to spray SP 7 ADESIL (polyxilossane anti-adhesive) lubricant inside the caps, before assembly, to reduce friction and avoid breakage.



750239

**NEW**

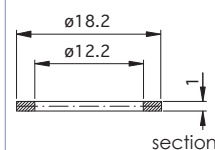


**NEW**

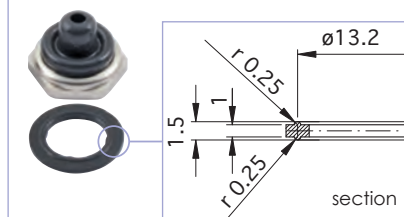
NYLON version

NBR Washer version

O-Ring version



cod. 250076.01



cod. 250076 - Shore A: 75

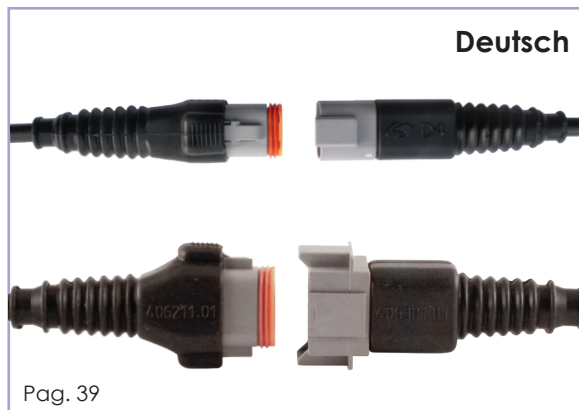
| Material              | IP Grade | UV Resistance | T° Min-Max  | Flexibility | Mechanical resistance |
|-----------------------|----------|---------------|-------------|-------------|-----------------------|
| Silicone (our choice) | IP66     | ++            | -55 +180 °C | ++          | -                     |
| Fluorosilicone        | IP66     | ++            | -45 +180 °C | ++          | +                     |
| Neoprene              | IP66     | -             | -35 +100 °C | -           | ++                    |

| Cod.   | Description                                                           |   |
|--------|-----------------------------------------------------------------------|---|
| 750239 | Antiadesivo al polixilossane/ polyxilossane anti-adhesive SP 7 ADESIL | 1 |

| Cod.      | Color  | Material       | Nut   |       | NBR washer | O-Ring | Thread type        |     |
|-----------|--------|----------------|-------|-------|------------|--------|--------------------|-----|
|           |        |                | White | Black |            |        |                    |     |
| 400460-BK | Black  | Silicone       |       | •     | •          | •      | ø12x0,75 (APEM)    | 100 |
| 400460    | Black  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 100 |
| 400460.01 | Green  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400460.02 | Red    | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400460.03 | White  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400460.04 | Yellow | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400562    | Black  | Silicone       | •     |       | •          | •      | ø12x1 (Matsushita) | 100 |
| 400562.02 | Red    | Silicone       | •     |       | •          | •      | ø12x1 (Matsushita) | 50  |
| 400463    | Black  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 100 |
| 400463.01 | Green  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400463.02 | Red    | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400463.03 | White  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400463.04 | Yellow | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400418    | Black  | Silicone       | •     |       | •          | •      | ø12x1 (Matsushita) | 100 |
| 400571    | Black  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 100 |
| 400571.01 | Green  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400571.02 | Red    | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400565    | Black  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 100 |
| 400565.01 | Green  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400565.02 | Red    | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400565.03 | White  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400565.04 | Yellow | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400563    | Black  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 100 |
| 400564    | Black  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 100 |
| 400564.01 | Green  | Silicone       | •     |       | •          | •      | ø12x0,75 (APEM)    | 50  |
| 400590    | Black  | Fluorosilicone | •     |       | •          | •      | ø12x0,75 (APEM)    | 100 |
| 400598    | Black  | Fluorosilicone | •     |       | •          | •      | ø12x1 (Matsushita) | 100 |

## ■ ■ Cuffie in EPDM

- temperatura di impiego  $-45 \div +130^{\circ}\text{C}$ ;
- buone/ottime proprietà meccaniche;
- ottima resistenza ai raggi UV;
- ottimo a contatto con ozono, agenti atmosferici, acqua, soluzioni saline, basi minerali forti e soluzioni derivate, olii e grassi vegetali e animali.



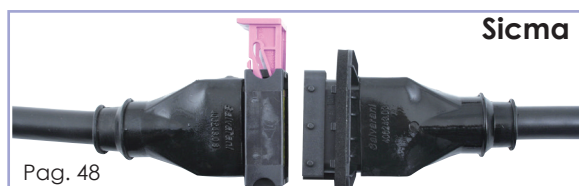
## ■ EPDM boots

- operating range  $-45^{\circ}\text{C}$  to  $130^{\circ}\text{C}$ ;
- excellent mechanical features;
- high UV radiation resistance;
- protection against ozone, weathering, water, saline solutions, strong mineral bases and derivate, greases and oils.

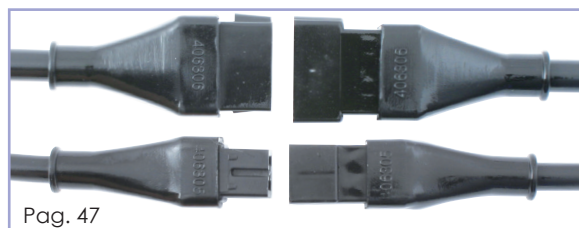
| Cod.      | Model          | Note                                                 | #  |    |
|-----------|----------------|------------------------------------------------------|----|----|
| 406186.01 | Deutsch M.p.F. | Cable $\varnothing$ 5,5 - Sleeving $\varnothing$ 7   | 2  | 10 |
| 406185.01 | Deutsch F.p.M. |                                                      |    |    |
| 406183.01 | Deutsch M.p.F. | Cable $\varnothing$ 6 - Sleeving $\varnothing$ 7     | 3  | 10 |
| 406184.01 | Deutsch F.p.M. |                                                      |    |    |
| 406210.01 | Deutsch M.p.F. | Cable $\varnothing$ 6,8 - Sleeving $\varnothing$ 10  | 4  | 10 |
| 406297.01 | Deutsch F.p.M. |                                                      |    |    |
| 406202.01 | Deutsch M.p.F. | Cable $\varnothing$ 9 - Sleeving $\varnothing$ 11,5  | 6  | 10 |
| 406203.01 | Deutsch F.p.M. |                                                      |    |    |
| 406211.01 | Deutsch M.p.F. | Cable $\varnothing$ 9,5 - Sleeving $\varnothing$ 11  | 8  | 10 |
| 406301.01 | Deutsch F.p.M. |                                                      |    |    |
| 406187.01 | Deutsch M.p.F. | Cable $\varnothing$ 10,5 - Sleeving $\varnothing$ 12 | 12 | 10 |
| 406188.01 | Deutsch F.p.M. |                                                      |    |    |



| Cod.   | Model           | Note                         | #  |    |
|--------|-----------------|------------------------------|----|----|
| 406481 | Tyco Mate-n-lok | Cable $\varnothing$ 6÷9 mm   | 9  | 10 |
| 406302 | Tyco Mate-n-lok | Cable $\varnothing$ 7÷11 mm  | 12 | 10 |
| 406319 | Tyco Mate-n-lok | Cable $\varnothing$ 12÷15 mm | 15 | 10 |



| Cod.      | Model     | Note                          | #  |    |
|-----------|-----------|-------------------------------|----|----|
| 406243.02 | SICMA FCI | Cable $\varnothing$ max 25 mm | 24 | 25 |
| 406243.03 | SICMA FCI | Cable $\varnothing$ 16÷21 mm  | 24 | 25 |



| Cod.   | Model         | Note                        | # |     |
|--------|---------------|-----------------------------|---|-----|
| 406305 | Fastin-Faston | Cable $\varnothing$ 7÷10 mm | 2 | 100 |
| 406306 | Fastin-Faston | Cable $\varnothing$ 7÷10 mm | 4 | 100 |

## ■ ■ Accessori per Connettori per Elettrovalvole - ■ Accessories for solenoid valves connectors



| Cod.      | Type                               | Note          | #   |  |
|-----------|------------------------------------|---------------|-----|--|
| 406029.05 | Basetta Chiusura Cieca x Conn. C18 | Cover cap C18 | 100 |  |
| 406040.02 | Basetta Chiusura Cieca x Conn. C11 | Cover cap C11 | 100 |  |

## ■ ■ Calotta Serracavo

- Calotta in tecnopolimero caricato vetro;
- temperatura di impiego da  $-30^{\circ}\text{C}$  a  $+125^{\circ}\text{C}$ ;
- buone/ottime proprietà meccaniche;



## ■ Cable gland backshell

- glass-filled polymer backshell
- operating range from  $-30^{\circ}\text{C}$  to  $125^{\circ}\text{C}$
- excellent mechanical features;

| Cod.      | Model                 | mm      | mm    | #  |    |
|-----------|-----------------------|---------|-------|----|----|
| 406080.03 | Souriau/ITT serie UTG | PG 11   | 5÷10  | 54 | 8  |
| 406104.03 | Souriau/ITT serie UTG | PG 13,5 | 6÷12  | 54 | 12 |
| 406194.03 | Souriau/ITT serie UTG | M25x1,5 | 11÷17 | 63 | 19 |
| 406078.03 | Souriau/ITT serie UTG | PG 21   | 13÷18 | 70 | 28 |

Customized versions





## **Cassette in alluminio verniciate in grigio**

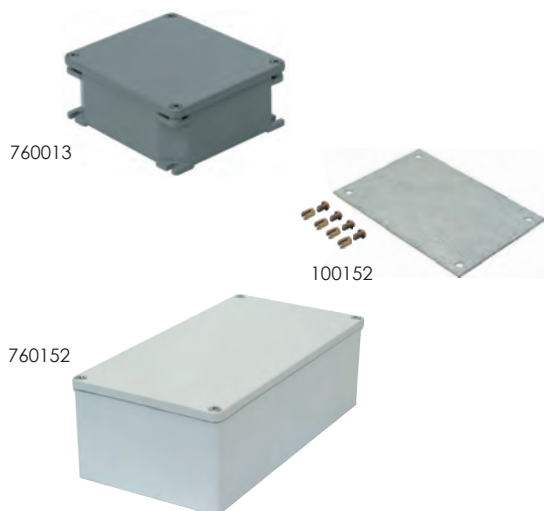
**IP66**

Cassette pressofuse in alluminio complete di viti, guarnizioni e coperchi, tenuta IP66 (CEI EN 60529). Verniciatura a forno in RAL 9006, grigio metallizzato bucciato. Piastre di montaggio in acciaio zincato disponibili per alcuni modelli. Forature personalizzate su richiesta.

## **Grey coated aluminium boxes**

**IP66**

Die-cast aluminium boxes with screws, seals and lids, IP66 protection (CEI EN 60529). Heat cured coating RAL 9006. Galvanized steel mounting plates available for some types. Custom drilling on request.



| Cod.   | ILME cod. | Piastra di montaggio<br>Assembly Plate | Dimensioni interne (mm)<br>Inner size (mm) | IP Grade |  |
|--------|-----------|----------------------------------------|--------------------------------------------|----------|-------------------------------------------------------------------------------------|
| 760041 | APV 9     |                                        | 90 x 90 x 53                               | IP66     | 1                                                                                   |
| 760013 | APV 11    | 760092                                 | 128 x 103 x 55                             |          | 1                                                                                   |
| 760160 | APV 12    | 760368                                 | 154 x 129 x 58                             |          | 1                                                                                   |
| 760028 | APV 14    | 760069                                 | 178 x 155 x 74                             |          | 1                                                                                   |
| 760029 | APV 19    | 760079                                 | 239 x 202 x 85                             |          | 1                                                                                   |
| 760142 | APV 20    | 760143                                 | 294 x 244 x 114                            |          | 1                                                                                   |
| 760170 | APV 21    | 760171                                 | 392 x 298 x 144                            |          | 1                                                                                   |

| Cod.   | Dimensione (mm)<br>Size (mm) | IP Grade |  |
|--------|------------------------------|----------|-------------------------------------------------------------------------------------|
| 760174 | 205 x 105 x 81               | IP66     | 1                                                                                   |
| 760009 | 256 x 91 x 75                |          | 1                                                                                   |
| 760152 | 268 x 133 x 91               |          | 1                                                                                   |

## **Valvola di sfiato**

**IP66**

Elementi di compensazione provvedono ad una buona aerazione della cassetta evitando la formazione di condensa.

## **Air-hole valve**

**IP66**

Compensation elements which provide a good ventilation in the boxes avoiding condensation.



| Cod.   | Descrizione<br>Description                             |  | ø   | IP Grade |  |
|--------|--------------------------------------------------------|---------------------------------------------------------------------------------------|-----|----------|---------------------------------------------------------------------------------------|
| 200212 | Silenziatore a pastiglia<br>Silencer with filteringpad | ✓                                                                                     |     |          | 1                                                                                     |
| 760282 | Valvola anticondensa<br>Vent valve                     |                                                                                       | M12 | IP66     | 1                                                                                     |

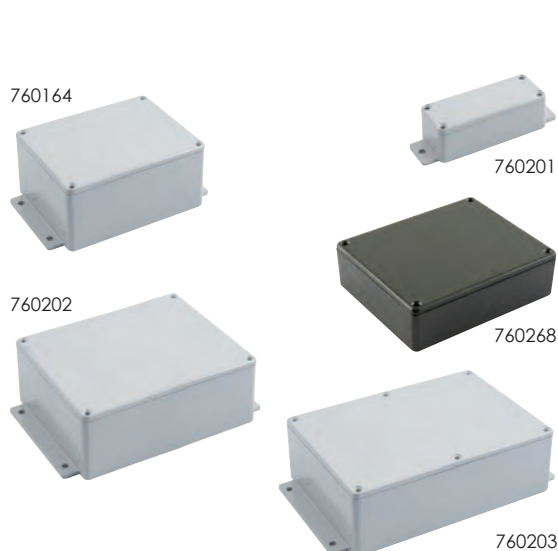
## **Cassette in alluminio verniciato**

**IP66**

Cassette pressofuse in alluminio complete di viti, guarnizioni e coperchi, tenuta IP66 (CEI EN 60529). Verniciatura a forno in RAL 9006, grigio metallizzato bucciato. Piastre di montaggio in acciaio zincato disponibili per alcuni modelli. Forature personalizzate su richiesta.

## **Coated Aluminum Boxes**

**IP66**



| Cod.   | Dimensione (mm)<br>Size (mm) | IP Grade |  |
|--------|------------------------------|----------|---------------------------------------------------------------------------------------|
| 760201 | 89 x 35 x 30                 | IP66     | 1                                                                                     |
| 760164 | 114 x 89 x 55                | IP66     | 1                                                                                     |
| 760268 | 120 x 100 x 35 (black)       | IP66     | 1                                                                                     |
| 760202 | 171 x 121 x 55               | IP66     | 1                                                                                     |
| 760203 | 222 x 146 x 55               | IP66     | 1                                                                                     |



## **Cassette in plastica**

Cassette in plastica complete di guarnizioni in gomma antinvecchiamento e coperchi, tenuta IP65. Viti in plastica o acciaio inox a seconda del modello.



## **IP65**

## **Plastic boxes**

Plastic boxes with anti-wear seals and lids, IP65 protection. Plastic or stainless steel screws depending on the type.

## **IP65**

| Cod.       | Dimensione (mm)<br>Size (mm) | Note                                             |                   | IP Grade |  |
|------------|------------------------------|--------------------------------------------------|-------------------|----------|-------------------------------------------------------------------------------------|
| 760097     | 70 x 70 x 51                 | already drilled                                  |                   | IP65     | 1                                                                                   |
| 760097-CPT | 70 x 70 x 51                 | complete with emergency push-button contact N.C. |                   |          |                                                                                     |
| 760010     | 105 x 70 x 74                | without hole                                     | -                 | IP65     | 1                                                                                   |
| 760010.04  |                              | 2 hole                                           | hole spacing 40mm |          |                                                                                     |
| 760010.05  |                              | 3 hole                                           | hole spacing 40mm |          |                                                                                     |
| 760221     | 164 x 99 x 67                |                                                  |                   | IP65     | 1                                                                                   |
| 760114     | 214 x 162 x 71               |                                                  |                   | IP65     | 1                                                                                   |
| 760257     | 110 x 210 x 40,5             |                                                  |                   | IP65     | 1                                                                                   |

## **Pressacavo antistrappo**

Pressacavo antistrappo con filettatura PG e metrica. Corpo in poliammide, guarnizione in neoprene. Tenuta IP68, 5 Bar massimi. Temperature di utilizzo comprese tra -30°C e 80°C.

## **Tearing proof cable gland**

Tearing proof cable gland with PG and metric thread. Polyamide body, neoprene seal. IP68 protection, 5 Bar maximum. Working temperatures between -30°C and 80°C.

| Cod.             |  | Cod.          |  | Cod.          |  | Description |  (mm) |  (mm) |  (mm) |  |  |
|------------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>400026</b>    |                                                                                     | <b>400027</b> |                                                                                     | <b>400034</b> |                                                                                     | M12x1,5     | 4 ÷ 7                                                                                     | 7                                                                                          | 12                                                                                         | 15                                                                                    | 50                                                                                    |
| <b>400028</b>    |                                                                                     | <b>400029</b> |                                                                                     | <b>400035</b> |                                                                                     | M16x1,5     | 6 ÷ 10                                                                                    | 7,5                                                                                        | 16                                                                                         | 19                                                                                    | 50                                                                                    |
| <b>400030</b>    |                                                                                     | <b>400031</b> |                                                                                     | <b>400036</b> |                                                                                     | M20x1,5     | 8 ÷ 13                                                                                    | 10                                                                                         | 20                                                                                         | 24                                                                                    | 50                                                                                    |
| <b>400030.01</b> |                                                                                     | <b>400031</b> |                                                                                     | <b>400036</b> |                                                                                     | M20x1,5 RID | 5 ÷ 9                                                                                     | 10                                                                                         | 20                                                                                         | 24                                                                                    | 50                                                                                    |
| <b>400032</b>    |                                                                                     | <b>400033</b> |                                                                                     | <b>400037</b> |                                                                                     | M25x1,5     | 11 ÷ 17                                                                                   | 10                                                                                         | 25                                                                                         | 30                                                                                    | 50                                                                                    |
| <b>400003</b>    |                                                                                     | <b>400004</b> |                                                                                     | <b>400015</b> |                                                                                     | PG7         | 3 ÷ 6,5                                                                                   | 8                                                                                          | 13                                                                                         | 15                                                                                    | 50                                                                                    |
| <b>400003.01</b> |                                                                                     | <b>400004</b> |                                                                                     | <b>400015</b> |                                                                                     | PG7 RID     | 2 ÷ 5                                                                                     | 8                                                                                          | 13                                                                                         | 15                                                                                    | 50                                                                                    |
| <b>400005</b>    |                                                                                     | <b>400006</b> |                                                                                     | <b>400016</b> |                                                                                     | PG9         | 4 ÷ 8                                                                                     | 8                                                                                          | 16                                                                                         | 19                                                                                    | 50                                                                                    |
| <b>400013</b>    |                                                                                     | <b>400014</b> |                                                                                     | <b>400017</b> |                                                                                     | PG11        | 5 ÷ 10                                                                                    | 8                                                                                          | 19                                                                                         | 22                                                                                    | 50                                                                                    |
| <b>400007</b>    |                                                                                     | <b>400008</b> |                                                                                     | <b>400018</b> |                                                                                     | PG13,5      | 6 ÷ 12                                                                                    | 9                                                                                          | 21                                                                                         | 24                                                                                    | 50                                                                                    |
| <b>400007.01</b> |                                                                                     | <b>400008</b> |                                                                                     | <b>400018</b> |                                                                                     | PG13,5 RID  | 5 ÷ 9                                                                                     | 6                                                                                          | 21                                                                                         | 24                                                                                    | 50                                                                                    |
| <b>400009</b>    |                                                                                     | <b>400010</b> |                                                                                     | <b>400020</b> |                                                                                     | PG16        | 10 ÷ 14                                                                                   | 10                                                                                         | 23                                                                                         | 27                                                                                    | 50                                                                                    |
| <b>400009-L</b>  |                                                                                     | <b>400010</b> |                                                                                     | <b>400020</b> |                                                                                     | PG16        | 10 ÷ 14                                                                                   | 15                                                                                         | 23                                                                                         | 27                                                                                    | 50                                                                                    |
| <b>400011</b>    |                                                                                     | <b>400012</b> |                                                                                     | <b>400019</b> |                                                                                     | PG21        | 13 ÷ 18                                                                                   | 11                                                                                         | 29                                                                                         | 33                                                                                    | 25                                                                                    |
| <b>400038</b>    |                                                                                     | <b>400039</b> |                                                                                     | <b>400044</b> |                                                                                     | PG29        | 18 ÷ 25                                                                                   | 11                                                                                         | 37                                                                                         | 42                                                                                    | 25                                                                                    |

## **Accessori per pressacavo** - **Cable gland accessories**



| Cod.          | Description                                         |  |
|---------------|-----------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>400048</b> | 2 holes ø6 mm cable support for PG 13,5 / M20 e 1,5 | 25                                                                                    |
| <b>400049</b> | 3 holes ø6 mm cable support for PG 16 / M20 e 1,5   | 25                                                                                    |
| <b>400040</b> | 6 holes ø7,5 mm cable support for PG 29             | 25                                                                                    |
| <b>400041</b> | Cap for PG9 gasket                                  | 25                                                                                    |
| <b>406486</b> | Reduction M/F M40 / M32                             | 25                                                                                    |
| <b>406487</b> | Cable gland M32 10 holes                            | 25                                                                                    |

## Lampade

Lampade a filamento e LED colorati per montaggio su apposite supporti. Connettori con morsettiere a innesto rapido o a faston 6,3 mm.

## Lamps

Filament lamps and coloured LEDs for mounting on specific supports. Connectors with plug-in terminal boards or 6,3 mm faston.



| Cod.      | Incand./LED  | Color  | V      | Ø (mm) | L (mm) | IP grade |    |
|-----------|--------------|--------|--------|--------|--------|----------|----|
| 400210    | LED          | Green  | 12 VDC | 10     | 250    | IP65     | 50 |
| 400210.01 | Incandescent | Green  | 24 VDC | 10     | 250    | IP65     | 50 |
| 400209    | LED          | Red    | 12 VDC | 10     | 250    | IP65     | 50 |
| 400211    | Incandescent | Red    | 24 VDC | 10     | 250    | IP65     | 50 |
| 400212    | Incandescent | Yellow | 24 VDC | 10     | 250    | IP65     | 50 |
| 400212.01 | LED          | Yellow | 12 VDC | 10     | 250    | IP65     | 50 |
| 401573    | LED          | Red    | 12 VDC | 12     | 200    | IP67     | 10 |
| 401573-G  | LED          | Green  | 12 VDC | 12     | 200    | IP67     | 10 |
| 401517    | LED          | Green  | 12 VDC | 6      | 250    | IP64     | 50 |
| 401516    | LED          | Red    | 12 VDC | 6      | 250    | IP64     | 50 |
| 401569    | LED          | Green  | 12 VDC | 6      | 200    | IP64     | 25 |
| 401569-R  | LED          | Red    | 12 VDC | 6      | 200    | IP64     | 25 |
| 401570    | LED          | Green  | 12 VDC | 6      | 200    | IP64     | 25 |
| 401570-R  | LED          | Red    | 12 VDC | 6      | 200    | IP64     | 25 |
| 401568    | LED          | Green  | 12 VDC | 6      | 200    | IP67     | 25 |
| 401568-R  | LED          | Red    | 12 VDC | 6      | 200    | IP67     | 25 |
| 400220    | Incandescent | Red    | 28 VDC | 7,5    | 160    | IP67     | 50 |
| 400220-G  | Incandescent | Green  | 28 VDC | 7,5    | 160    | IP67     | 50 |
| 400220-OR | Incandescent | Yellow | 28 VDC | 7,5    | 160    | IP67     | 50 |

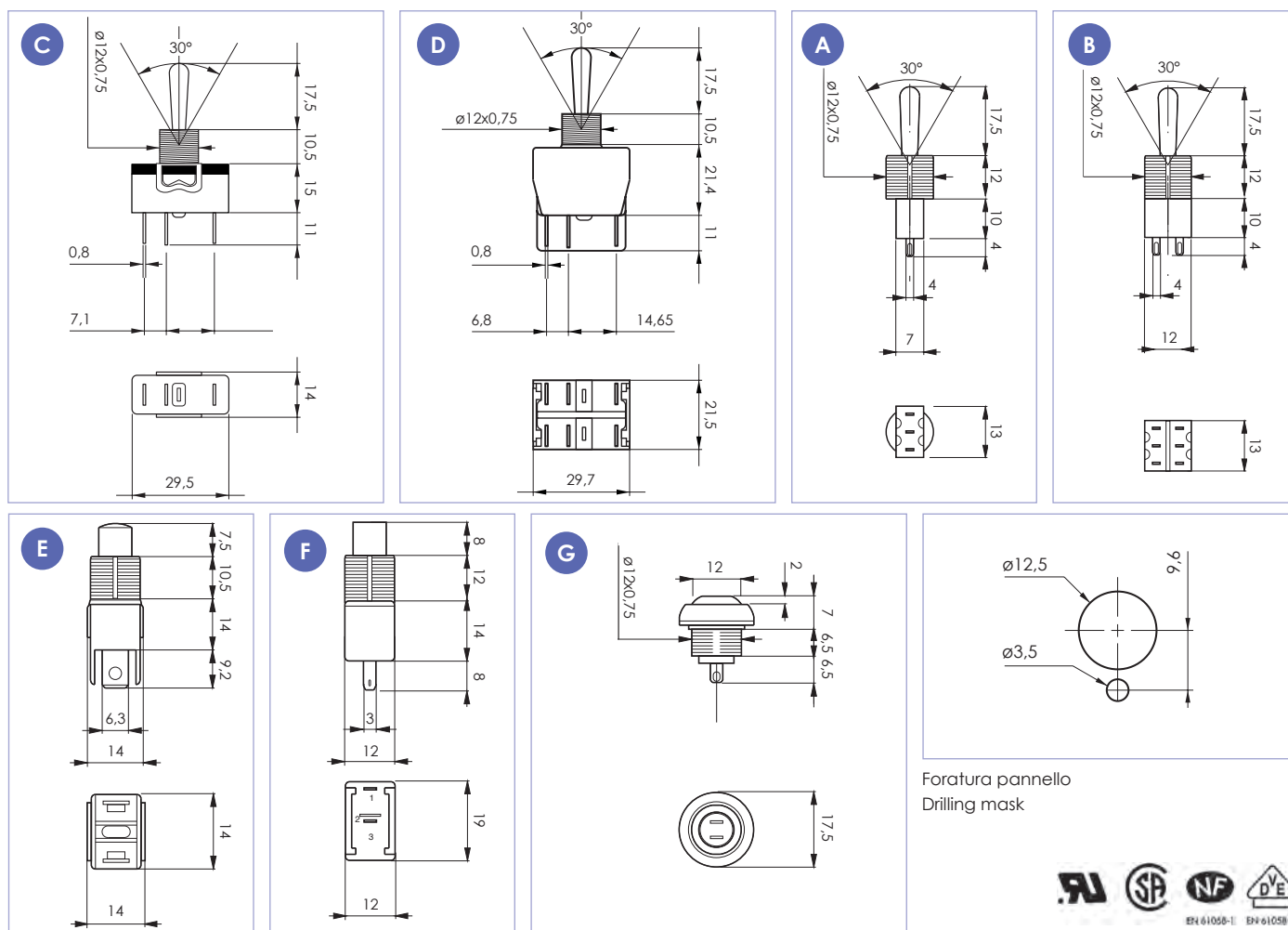


| Cod.          | Incand./LED  | Color | V      | Faston conn. | Plug-in conn. |    |
|---------------|--------------|-------|--------|--------------|---------------|----|
| 400214        | Incandescent | White | 12 VDC | •            |               | 50 |
| 401517.01     | LED          | Green | 12 VDC |              | •             | 50 |
| 401516.01     | LED          | Red   | 12 VDC |              | •             | 50 |
| 401516.01-24V | LED          | Red   | 24 VDC |              | •             | 50 |



## ■ Interruttori e pulsanti APEM® ø12 mm

## ■ APEM® switches and push-buttons ø12 mm



## ■ Interruttori pulsanti APEM® ø12 mm ■ APEM® push-buttons, ø12 mm



| Cod.      | APEM ref.   |             | Color  | A   | V       | Notes / Connection Type                |    |
|-----------|-------------|-------------|--------|-----|---------|----------------------------------------|----|
| 400469    | IL12132A    | MOM (NO)    | Black  | 8   | 250 VAC | 2 x Faston 6,3                         | 40 |
| 400469.01 | IL12132     | MOM (NO)    | Black  | 3   | 250 VAC | 2 x Faston 6,3                         | 40 |
| 400495    | IL12126     | MOM (NC)    | Red    | 3   | 250 VAC | 2 x Faston 6,3                         | 40 |
| 400496    | IL12133     | MOM (NO)    | Green  | 3   | 250 VAC | 2 x Faston 6,3                         | 40 |
| 400462    | IL4731C     | ON-OFF      | Black  | 4   | 125 VAC | 2 x solder                             | 40 |
| 400517    | IL4836      | ON-ON       | Black  | 3   | 125 VAC | 3 x solder                             | 40 |
| 400568    | IL4631      | ON-OFF      | Black  | 4   | 125 VAC | 2 x solder                             | 40 |
| 400482    | IL4743A     | ON-OFF      | Black  | 3   | 125 VAC | 4 x solder bipolar                     | 40 |
| 400569    | IPR3SAD2LOG | MOM (NO)    | Black  | 0,4 |         | with 2,1 V - 20 mA LED verde / solder  | 10 |
| 400570    | IPR3SAD3LOG | MOM (NO)    | Green  | 0,4 |         | with 2,1 V - 20 mA LED / solder        | 10 |
| 400591.05 | IPR1SAD2LOS | ON-OFF      | Black  | 0,4 |         | with 1,95 V - 20 mA LED / solder       | 10 |
| 400620    | IPR3SAD5LOG | ON-OFF      | Yellow | 0,4 |         | with 2,1 V - 20 mA LED giallo / solder | 10 |
| 400589.05 | IPR5SAD2    | MOM (NO/NC) | Black  | 0,4 |         | max 24 V / solder                      | 10 |
| 400464    | ISR3 SAD3   | MOM (NO)    | Green  | 0,4 | 32 VAC  | max 32 V / solder                      | 50 |
| 400464.01 | ISR3 SAD6   | MOM (NO)    | Red    | 0,4 | 32 VAC  | max 32 V / solder                      | 50 |
| 400464.02 | ISR3 SAD1   | MOM (NO)    | Blue   | 0,4 | 32 VAC  | max 32 V / solder                      | 50 |
| 400464.03 | ISR3 SAD5   | MOM (NO)    | Yellow | 0,4 | 32 VAC  | max 32 V / solder                      | 50 |
| 400464.04 | ISR3 SAD7   | MOM (NO)    | White  | 0,4 | 32 VAC  | max 32 V / solder                      | 50 |
| 400464.05 | ISR3 SAD2   | MOM (NO)    | Black  | 0,4 | 32 VAC  | max 32 V / solder                      | 50 |

## Interruttori APEM® ø12 mm con connessione Faston APEM® switches ø12 mm, Faston connection

|   | Cod.      | APEM ref. |    | Poles | L (mm) | A  | V       | Connection Type |    |
|------------------------------------------------------------------------------------|-----------|-----------|-------------------------------------------------------------------------------------|-------|--------|----|---------|-----------------|---------------------------------------------------------------------------------------|
|                                                                                    | 400404    | 636H/2    | ON-ON                                                                               | 1     | 17,5   | 15 | 250 VAC | 3 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400401    | 639H/2    | ON-OFF-ON                                                                           | 1     | 17,5   | 10 | 250 VAC | 3 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400459    | 637H/2    | MOM-OFF-MOM                                                                         | 1     | 17,5   | 10 | 250 VAC | 3 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400466    | 631H/2    | ON-OFF                                                                              | 1     | 17,5   | 15 | 250 VAC | 2 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400476    | 638H/2    | MOM-OFF-ON                                                                          | 1     | 17,5   | 10 | 250 VAC | 3 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400522    | 635H/2    | ON-MOM                                                                              | 1     | 17,5   | 10 | 250 VAC | 3 x Faston 6,3  | 25                                                                                    |
|  | Cod.      | APEM ref. |    | Poles | L (mm) | A  | V       | Connection Type |    |
|                                                                                    | 400481    | 631.L40   | ON-OFF                                                                              | 1     | 40     | 15 | 250 VAC | 2 x Faston 6,3  | 15                                                                                    |
|                                                                                    | 400465    | 637.L40   | MOM-OFF-MOM                                                                         | 1     | 40     | 10 | 250 VAC | 3 x Faston 6,3  | 15                                                                                    |
|                                                                                    | 400476.01 | 638.L40   | MOM-OFF-ON                                                                          | 1     | 40     | 10 | 250 VAC | 3 x Faston 6,3  | 15                                                                                    |
|  | Cod.      | APEM ref. |    | Poles | L (mm) | A  | V       | Connection Type |    |
|                                                                                    | 400432.01 | 646.L40   | ON-ON                                                                               | 2     | 40     | 15 | 250 VAC | 6 x Faston 6,3  | 15                                                                                    |
|  | Cod.      | APEM ref. |    | Poles | L (mm) | A  | V       | Connection Type |    |
|                                                                                    | 400407    | 649H/2    | ON-OFF-ON                                                                           | 2     | 17,5   | 10 | 250 VAC | 6 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400432    | 646H/2    | ON-ON                                                                               | 2     | 17,5   | 15 | 250 VAC | 6 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400403    | 647H/2    | MOM-OFF-MOM                                                                         | 2     | 17,5   | 10 | 250 VAC | 6 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400420    | 648H/2    | ON-OFF-MOM                                                                          | 2     | 17,5   | 10 | 250 VAC | 6 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400514    | 645H/2    | ON-MOM                                                                              | 2     | 17,5   | 10 | 250 VAC | 6 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400543    | 641H/2    | ON-OFF                                                                              | 2     | 17,5   | 15 | 250 VAC | 4 x Faston 6,3  | 25                                                                                    |
|                                                                                    | 400545    | 644H/2    | ON-ON-ON                                                                            | 2     | 17,5   | 15 | 250 VAC | 6 x Faston 6,3  | 25                                                                                    |
|  | Cod.      | APEM ref. |  | Poles | L (mm) | A  | V       | Connection Type |  |
|                                                                                    | 400526    | 659/H     | ON-OFF-ON                                                                           | 3     | 17,5   | 10 | 250 VAC | 9 x Faston 6,3  | 25                                                                                    |
|  | Cod.      | APEM ref. |  | Poles | L (mm) | A  | V       | Connection Type |  |
|                                                                                    | 400623    | 1631      | ON-OFF                                                                              | 1     | 12     | 4  | 30 VDC  | 2 x Faston 6,3  | 25                                                                                    |

## Accessori APEM® APEM® Accessories

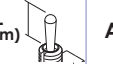
|   | Cod.      | APEM ref. |    |
|--------------------------------------------------------------------------------------|-----------|-----------|---------------------------------------------------------------------------------------|
|                                                                                      | 100103    | U166      | 25                                                                                    |
|  | Cod.      | APEM ref. |  |
|                                                                                      | 100103.01 | U411      | 25                                                                                    |

## Interruttori APEM® ø12 mm con connessione a saldare APEM® switches ø12 mm, solder connection

**A**

| Cod.   | APEM ref. |  | Poles | L (mm)<br> | A | V      | Connection Type |  |
|--------|-----------|-------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|---|--------|-----------------|---------------------------------------------------------------------------------------|
| 400468 | 5638MA    | MOM-OFF-ON                                                                          | 1     | 17,5mm                                                                                         | 4 | 30 VDC | solder          | 25                                                                                    |
| 400461 | 5637MA    | MOM-OFF-MOM                                                                         | 1     | 17,5mm                                                                                         | 4 | 30 VDC | solder          | 25                                                                                    |
| 400467 | 5639MA    | ON-OFF-ON                                                                           | 1     | 17,5mm                                                                                         | 4 | 30 VDC | solder          | 25                                                                                    |
| 400471 | 5636MA    | ON-ON                                                                               | 1     | 17,5mm                                                                                         | 4 | 30 VDC | solder          | 25                                                                                    |

**B**

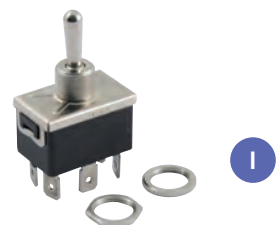
| Cod.      | APEM ref. |  | Poles | L (mm)<br> | A | V      | Connection Type | Note             |  |
|-----------|-----------|-------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|---|--------|-----------------|------------------|---------------------------------------------------------------------------------------|
| 400631    | 5648M     | ON-OFF-MOM                                                                          | 2     | 17,5                                                                                           | 4 | 30 VDC | solder          |                  | 25                                                                                    |
| 400434    | 5647MA    | MOM-OFF-MOM                                                                         | 2     | 17,5                                                                                           | 4 | 30 VDC | solder          |                  | 25                                                                                    |
| 400413    | 5646MA    | ON-ON                                                                               | 2     | 17,5                                                                                           | 4 | 30 VDC | solder          |                  | 25                                                                                    |
| 400512    | 5642MA    | ON-MOM                                                                              | 2     | 17,5                                                                                           | 4 | 30 VDC | solder          |                  | 25                                                                                    |
| 400499    | 5649MA    | ON-OFF-ON                                                                           | 2     | 17,5                                                                                           | 4 | 30 VDC | solder          |                  | 25                                                                                    |
| 400499.01 | 12149AK   | ON-OFF-ON                                                                           | 2     | 17,5                                                                                           | 4 | 30 VDC | solder          | High Performance | 25                                                                                    |
| 400461.02 | 12147AK   | MOM-OFF-MOM                                                                         | 2     | 17,5                                                                                           | 4 | 30 VDC | solder          | High Performance | 25                                                                                    |



## ■ ■ Interruttori "Eco" ø12 mm con connessione Faston ■ ■ "Eco" switches ø12 mm, Faston connection



| Cod.      |  | Poles | L (mm) | A  | V       | Connection Type |  |
|-----------|-----------------------------------------------------------------------------------|-------|--------|----|---------|-----------------|-------------------------------------------------------------------------------------|
| 400459.01 | MOM-OFF-MOM                                                                       | 1     | 17,5   | 10 | 250 VAC | 3 x Faston 6,3  | 25                                                                                  |
| 400404.01 | ON-ON                                                                             | 1     | 17,5   | 10 | 250 VAC | 3 x Faston 6,3  | 25                                                                                  |
| 400401.01 | ON-OFF-ON                                                                         | 1     | 17,5   | 10 | 250 VAC | 3 x Faston 6,3  | 25                                                                                  |



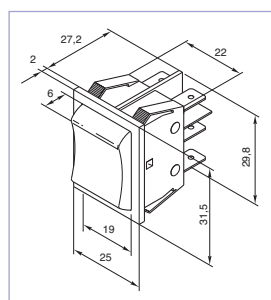
| Cod.      |  | Poles | L (mm) | A  | V       | Connection Type |  |
|-----------|-----------------------------------------------------------------------------------|-------|--------|----|---------|-----------------|-------------------------------------------------------------------------------------|
| 400407.01 | ON-OFF-ON                                                                         | 2     | 17,5   | 10 | 250 VAC | 6 x Faston 6,3  | 25                                                                                  |
| 400403.01 | MOM-OFF-MOM                                                                       | 2     | 17,5   | 10 | 250 VAC | 6 x Faston 6,3  | 25                                                                                  |
| 400432.02 | ON-ON                                                                             | 2     | 17,5   | 10 | 250 VAC | 6 x Faston 6,3  | 25                                                                                  |

## ■ ■ Interruttori pulsanti "Eco" ø12 mm ■ ■ "Eco" push-buttons, ø12 mm



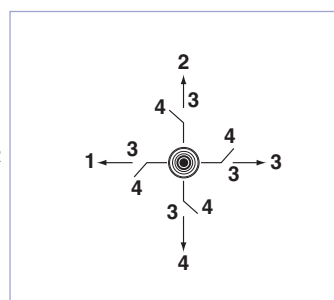
| Cod.      |  | Color                                                                              | A   | V   | Connection Type |  |
|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|-----|-----------------|-------------------------------------------------------------------------------------|
| 400469.02 | OFF-MOM                                                                           |   | 4   | 250 | 2 x Faston 6,3  | 40                                                                                  |
| 400530    | OFF-MOM                                                                           |  | 0,4 | 250 | solder          | 40                                                                                  |

## ■ ■ Interruttori "Eco" bipolari a bascula ■ ■ "Eco" Double pole rocker switches



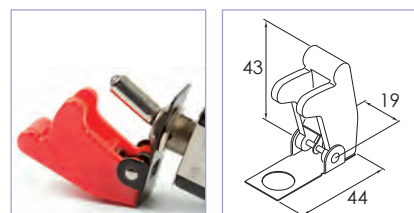
| Cod.     |  | Poles | A  | V       | Conn. Type     | IP Grade |  |
|----------|-------------------------------------------------------------------------------------|-------|----|---------|----------------|----------|-------------------------------------------------------------------------------------|
| 400584   | MOM-OFF-MOM                                                                         | 2     | 16 | 250 VAC | 6 x Faston 6,3 | IP40     | 10                                                                                  |
| 400584-F | MOM-OFF-MOM                                                                         | 2     | 16 | 250 VAC | 6 x Faston 6,3 | IP40     | 10                                                                                  |

## ■ ■ Manipolatore a 2 assi APEM con pulsante ■ ■ 2-axis APEM Joystick with integrated push-button



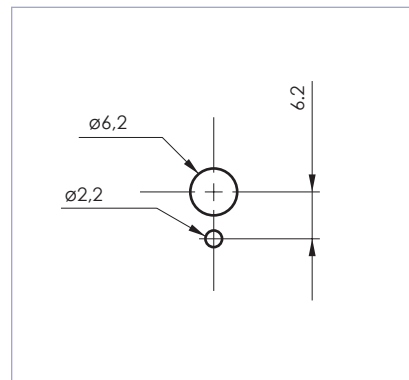
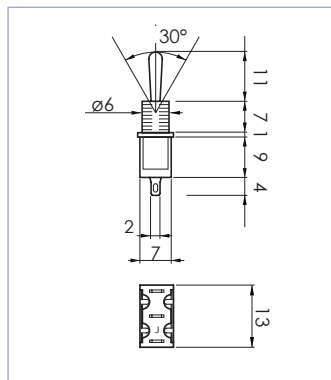
| Cod.   | Cod. Apem |  | A   | V       | Conn. Type  | IP Grade |  |
|--------|-----------|--------------------------------------------------------------------------------------|-----|---------|-------------|----------|---------------------------------------------------------------------------------------|
| 400402 | 1D16J1500 | 1 x MOM                                                                              | 6 A | 250 VAC | 12 x solder | IP67     | 1                                                                                     |
| 400422 | 1D15D1500 | -                                                                                    | 6 A | 250 VAC | 12 x solder | IP67     | 1                                                                                     |

## ■ ■ Accessori per interruttori ø12 mm ■ ■ Accessories for ø12 mm switches



| Cod.      | Description                                          |  |
|-----------|------------------------------------------------------|---------------------------------------------------------------------------------------|
| 406246.02 | Coprinterruttore di sicurezza<br>Switches'safety cap | 10                                                                                    |
| ET158     | Targhetta Alluminio ON-OFF<br>Aluminium plate ON-OFF | 10                                                                                    |

## Microinterruttori ø6 mm con connessione a saldare Microswitches ø6 mm, solder connection



Foratura pannello  
Drilling mask



A

| Cod.   | APEM ref. |  | Poles | L (mm) | A | V      | Connection Type |  |
|--------|-----------|-----------------------------------------------------------------------------------|-------|--------|---|--------|-----------------|-------------------------------------------------------------------------------------|
| 400406 | 5639A     | ON-OFF-ON                                                                         | 1     | 11     | 4 | 30 VDC | solder          | 10                                                                                  |
| 400410 | 5637A     | MOM-OFF-MOM                                                                       | 1     | 11     | 4 | 30 VDC | solder          | 10                                                                                  |
| 400419 | 5236AB    | ON-ON                                                                             | 1     | 11     | 4 | 30 VDC | PC terminal     | 10                                                                                  |
| 400435 | 5246AB    | ON-ON                                                                             | 2     | 11     | 4 | 30 VDC | PC terminal     | 10                                                                                  |



| Cod.      | APEM ref. | Description                                    |  |
|-----------|-----------|------------------------------------------------|-------------------------------------------------------------------------------------|
| 400419.02 | U1229     | Cover, black + OR, to be used with 11 mm lever | 10                                                                                  |

## Interruttori d'emergenza APEM® ø16 mm APEM® Emergency Push-Buttons, ø16 mm

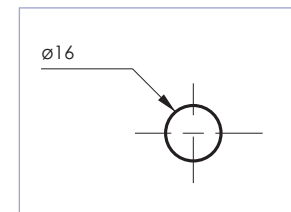
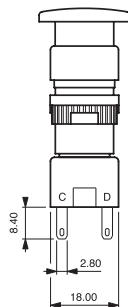
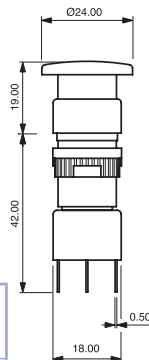


400519



400520

O



Foratura pannello  
Drilling mask

| Cod.   | APEM ref. | Description         |  |
|--------|-----------|---------------------|-------------------------------------------------------------------------------------|
| 400519 | A01ES-DM  | Emergency Momentary | 1                                                                                   |
| 400520 | A01ESSP1  | Emergency Momentary | 1                                                                                   |

| Cod.      | APEM ref. | Description | A | V       | IP Grade |  |
|-----------|-----------|-------------|---|---------|----------|---------------------------------------------------------------------------------------|
| 400519.01 | A0154B    | Bipolar     | 6 | 250 VAC | IP65     | 1                                                                                     |
| 400520.01 | A0150B-D  | Unipolar    | 6 | 250 VAC | IP65     | 1                                                                                     |

## Interruttori bipolari APEM® a bascula APEM® double pole rocker switches

IP65

IP65



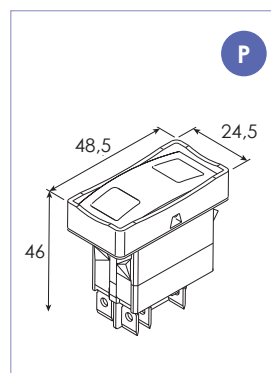
400572



400573



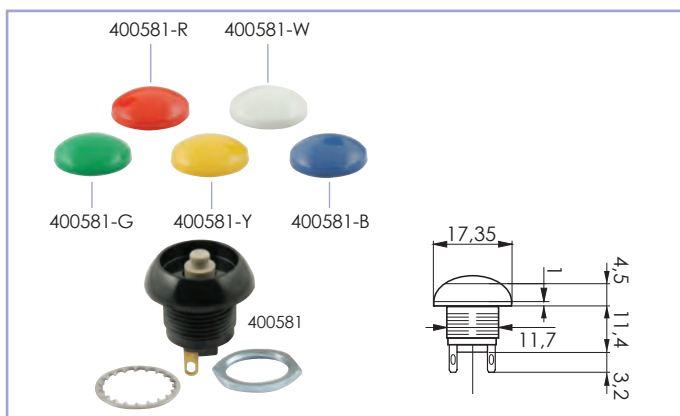
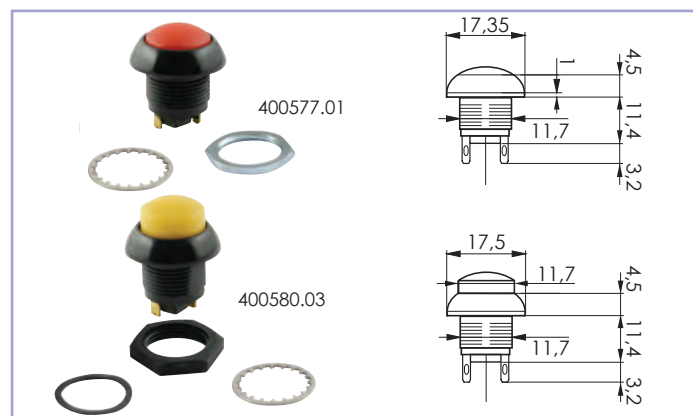
400574



P

| Cod.   | APEM ref.       | Poles |  | A  | V      | Connection Type | Note           | IP Grade |  |
|--------|-----------------|-------|-------------------------------------------------------------------------------------|----|--------|-----------------|----------------|----------|---------------------------------------------------------------------------------------|
| 400430 | KG472A2XXA21X1  | 2     | MOM-OFF-MOM                                                                         | 10 | 12 VDC | 6 x faston 6.3  | -              | IP65     | 15                                                                                    |
| 400572 | KG412A2XXA21    | 2     | ON-OFF                                                                              | 10 | 12 VDC | 6 x faston 6.3  | -              | IP65     | 15                                                                                    |
| 400573 | KG412A2EXDA243X | 2     | ON-OFF                                                                              | 10 | 12 VDC | 6 x faston 6.3  | 1 x green lamp | IP65     | 1                                                                                     |
| 400574 | MG492A2DDA2866  | 2     | ON-OFF-ON                                                                           | 10 | 12 VDC | 6 x faston 6.3  | 2 x red lamps  | IP65     | 1                                                                                     |

## Pulsanti Otto® ø12 mm Otto® push-buttons ø12 mm

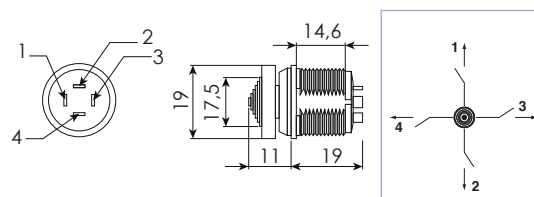


| Cod.       |  Otto ref. |  | Color                                                                               | A     | Notes / Connection Type    | IP Grade |  |
|------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|----------------------------|----------|-------------------------------------------------------------------------------------|
| 400577.01  | P9-511121                                                                                   | OFF-MOM                                                                           |    | 5     | 2 x solder - ø 12 mm       | IP68     | 40                                                                                  |
| 400580.03  | P9-211124W                                                                                  | OFF-MOM                                                                           |    | 5     | 2 x solder - ø 12 mm       | IP68 S   | 10                                                                                  |
| 400626.06  | P9-111123                                                                                   | OFF-MOM                                                                           |    | 5     | 2 x solder - ø 12 mm       | IP68 S   | 40                                                                                  |
| 400588     | P9C-211123                                                                                  | OFF-MOM                                                                           |    | 0,1   | 2 x solder - ø 12 mm       | IP68 S   | 40                                                                                  |
| 400552     | P9M-N1112                                                                                   | ON-OFF                                                                            | -                                                                                   | 4     | 2 x solder - ø 12 mm       | IP68 S   | 10                                                                                  |
| 400552-B   | Flush-Dome                                                                                  | -                                                                                 |    | -     | Push-button cover - Blue   | -        | 25                                                                                  |
| 400552-G   | Flush-Dome                                                                                  | -                                                                                 |    | -     | Push-button cover - Green  | -        | 25                                                                                  |
| 400552-R   | Flush-Dome                                                                                  | -                                                                                 |    | -     | Push-button cover - Red    | -        | 25                                                                                  |
| 400552-W   | Flush-Dome                                                                                  | -                                                                                 |    | -     | Push-button cover - White  | -        | 25                                                                                  |
| 400552-Y   | Flush-Dome                                                                                  | -                                                                                 |   | -     | Push-button cover - Yellow | -        | 25                                                                                  |
| 400581     | P9-900016                                                                                   | OFF-MOM                                                                           | -                                                                                   | 5     | 2 x solder - ø 12 mm       | IP68     | 10                                                                                  |
| 400581-B   | C401244-25-6                                                                                | -                                                                                 |  | gloss | Push-button cover - Blue   | -        | 25                                                                                  |
| 400581-G   | C401244-25-5                                                                                | -                                                                                 |  | gloss | Push-button cover - Green  | -        | 25                                                                                  |
| 400581-R   | C401244-25-1                                                                                | -                                                                                 |  | gloss | Push-button cover - Red    | -        | 25                                                                                  |
| 400581-W   | C401244-25-9                                                                                | -                                                                                 |  | gloss | Push-button cover - White  | -        | 25                                                                                  |
| 400581-Y   | C401244-25-4                                                                                | -                                                                                 |  | gloss | Push-button cover - Yellow | -        | 25                                                                                  |
| 400581-OR  | C401244-25-3                                                                                | -                                                                                 |  | gloss | Push-button cover - Orange | -        | 25                                                                                  |
| 400581-BK  | C401244-25-2                                                                                | -                                                                                 |  | gloss | Push-button cover - Black  | -        | 25                                                                                  |
| 400581-GR  | C401244-25-8                                                                                | -                                                                                 |  | gloss | Push-button cover - Gray   | -        | 25                                                                                  |
| 400581-G-M | C401244-25-5A                                                                               | OFF-MOM                                                                           |  | matte | Push-button cover - Green  | IP68     | 25                                                                                  |
| 400581-R-M | C401244-25-1A                                                                               | -                                                                                 |  | matte | Push-button cover - Red    | -        | 25                                                                                  |

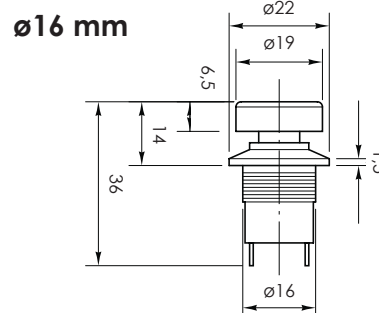
## Manipolatore mini 2 assi 2-axis mini Joystick

- Temperatura di utilizzo -55°C e 85°C
- Materiale: lega di alluminio o materiale termoplastico
- Operating temperature -55 °C and 85 °C
- Material: aluminium alloy or thermoplastic

| Cod.   | Otto ref. | A | V      |  | IP Grade |  |
|--------|-----------|---|--------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|
| 400624 | T4-CG2112 | 1 | 28 VDC | joystick 4 cont.                                                                    | IP64     | 1                                                                                   |



## Pulsanti Otto® ø16 mm Otto® push-buttons ø16 mm

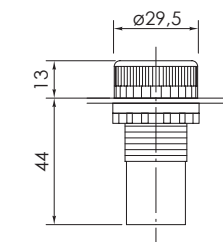


| Cod.     |  Otto ref. |  | Color                                                                               | A  | Notes / Connection Type | IP Grade |  |
|----------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-------------------------|----------|---------------------------------------------------------------------------------------|
| 400523   | P3-30268                                                                                      | OFF-MOM                                                                             |  | 10 | 2 x solder - ø 16 mm    | 68       | 15                                                                                    |
| 400523-Y | P3-30269                                                                                      | OFF-MOM                                                                             |  | 10 | 2 x solder - ø 16 mm    | 68       | 15                                                                                    |

## ■ ■ Unità di comando COMEPI® - ■ ■ COMEPI® control units

| Technical Data                                                                                                               |                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Standards                                                                                                                    | Devices conform with IEC 947-5-1 and EN 60947-5-1 standards                                     |
| Certifications, Approvals                                                                                                    | UL - CSA - IMQ                                                                                  |
| Air temperature near the device<br>-during operation / for storage                                                           | -25...+70 °C<br>-40...+80 °C                                                                    |
| Enclosure material                                                                                                           | Chromium plated zamak                                                                           |
| Protection against electrical shock (according to IEC 536)                                                                   | Class I                                                                                         |
| Mechanical durability                                                                                                        | 1x10 <sup>6</sup> pushbuttons, selectors and joysticks<br>3x10 <sup>5</sup> emergency mushrooms |
| Positive opening operation (according to IEC 947-5-1)                                                                        | All functions incorporating an NC contact are positive opening operation                        |
| Rated insulation voltage U <sub>i</sub><br>-according to IEC 947-1 and EN 60947-1<br>-according to UL 508 and CSA C22-2 n°14 | 660V (degree of pollution 3)<br>A300, Q300                                                      |
| Rated impulse withstand voltage U <sub>imp</sub> (IEC 947-1 and EN 60947-1)                                                  | 6 kV                                                                                            |
| Conventional free air thermal current I <sub>th</sub><br>(according to IEC 947-1 and EN 60947-1) 0 < 40 °C                   | 10 A                                                                                            |
| Short-circuit protection U <sub>e</sub> < 500 Vac - gG (gl) type fuses                                                       | 10 A                                                                                            |
| Operation frequency                                                                                                          | 3600 cycles / h                                                                                 |
| Initial resistance between contacts                                                                                          | ≤25 mΩ                                                                                          |
| Connecting terminals                                                                                                         | On screw with non loosable plate clamp                                                          |
| Connecting terminals                                                                                                         | 0,75...2,5 mm <sup>2</sup>                                                                      |
| Terminal marking                                                                                                             | according to EN 50013                                                                           |

## ■ ■ Portalampane da incasso ø22 mm COMEPI® - ■ ■ COMEPI® panel lamp holders, ø22 mm



| Cod.      | COMEPI ref.    | Description                                | Color | V  | IP Grade |    |
|-----------|----------------|--------------------------------------------|-------|----|----------|----|
| 400217    | ECX1053        | panel lamp holder, green                   |       | 12 | IP20     | 20 |
| 400217-Y  | ECX1052        | panel lamp holder, yellow                  |       |    |          | 20 |
| 400217-BL | ECX1054        | panel lamp holder, blue                    |       |    |          | 20 |
| 400217-R  | ECX1051        | panel lamp holder, red                     |       |    |          | 20 |
| 400225    | ECX 2051-24L   | panel lamp holder, red "LED"               |       | 24 | IP20     | 15 |
| 400213    | ATBA.9.23.12   | 12 V light bulb (12 V - 2 W, not included) |       | 12 | IP20     | 20 |
| 400223-R  | G22PP1BPMHR12E | panel lamp holder, red, intermittent       |       | 12 |          | 10 |

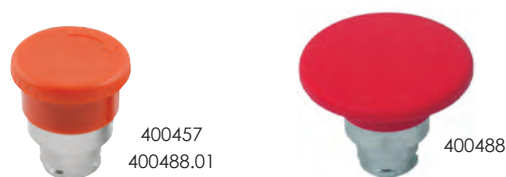
## ■ ■ Pulsanti COMEPI® ø22 mm - ■ ■ COMEPI® Push-buttons ø22 mm



| Cod.     | COMEPI ref. | Description                       | Color | IP Grade |    |
|----------|-------------|-----------------------------------|-------|----------|----|
| 400453   | ECX1111     | momentary pushbutton              |       | IP65     | 20 |
| 400453-B | ECX1110     | momentary pushbutton              |       |          | 20 |
| 400453-G | ECX1112     | momentary pushbutton              |       |          | 20 |
| 400521   | ECX1100     | flat button, momentary pushbutton |       |          | 20 |
| 400521-R | ECX1101     | flat button, momentary pushbutton |       |          | 20 |
| 400521-G | ECX1102     | flat button, momentary pushbutton |       |          | 20 |
| 400454   | ECX1706     | silicone protection cap           |       | IP65     | 50 |



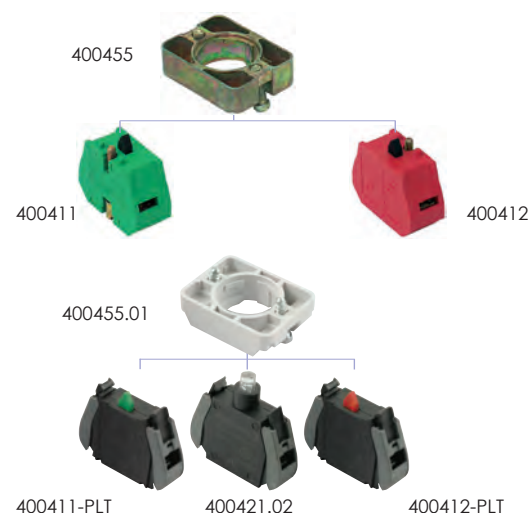
## Pulsanti di Emergenza COMEPI® ø22 mm - COMEPI® Emergency push-buttons ø22 mm



| Cod.      | COMEPI ref. | Description                  | Color                                                                               | ø button (mm) | IP Grade |  |
|-----------|-------------|------------------------------|-------------------------------------------------------------------------------------|---------------|----------|-------------------------------------------------------------------------------------|
| 400457    | ECX1131     | with latch, twist to release |  | 40            | IP65     | 10                                                                                  |
| 400488.01 | ECX1135     | momentary                    |  | 40            | IP65     | 10                                                                                  |
| 400488    | ECX1137     | momentary                    |  | 60            | IP65     | 10                                                                                  |

## Contatti e base comune ø22 mm COMEPI® per metallo

## COMEPI® Main base and Contact Elements ø22 mm for metal



| Cod.       | COMEPI ref.  | Description                                   | A   | V      | IP Grade |  |
|------------|--------------|-----------------------------------------------|-----|--------|----------|-------------------------------------------------------------------------------------|
| 400455     | ECX1029      | support base                                  |     |        | IP20     | 25                                                                                  |
| 400411     | ECX1040      | contact element (IP20) NO                     | 2,8 | 24 VDC | IP20     | 100                                                                                 |
| 400412     | ECX1030      | contact element (IP20) NC                     |     |        | IP20     | 100                                                                                 |
| 400455.01  | ECX3029A     | plastic support base for metal-body selectors |     |        | IP20     | 25                                                                                  |
| 400411-PLT | ECX1040N     | contact element NO                            |     |        | IP20     | 100                                                                                 |
| 400412-PLT | ECX1030N     | contact element NC                            | 2,8 | 24 VDC | IP20     | 100                                                                                 |
| 400421.02  | ECX3055N24-L | 24 V white LED                                |     |        | IP20     | 100                                                                                 |

PULSANTE SPORGENTE ROSSO PLT.  
pulsante luminoso rosso filo ghiera

## Serie PLT COMEPI® ø22 mm - COMEPI® ø22 mm PLT Series



| Cod.          | COMEPI ref.   | Description                                     | Color                                                                                 | A   | V      | IP Grade |  |
|---------------|---------------|-------------------------------------------------|---------------------------------------------------------------------------------------|-----|--------|----------|---------------------------------------------------------------------------------------|
| 400450-PLT    | ECX4201       | momentary push button                           |  |     |        | IP65     | 20                                                                                    |
| 400453-PLT    | ECX3111       | momentary push button                           |  |     |        | IP65     | 20                                                                                    |
| 400521-PLT    | ECX3100       | momentary push button - flat                    |  |     |        | IP65     | 20                                                                                    |
| 400454        | ECX1706       | silicone protection cap                         | -                                                                                     |     |        | IP65     | 20                                                                                    |
| 400421-PLT    | ECX3251       | selector, 2 positions, maintained               |  |     |        | IP65     | 20                                                                                    |
| 400479-PLT    | ECX3420       | key selector, 2 positions, maintained           |  |     |        | IP65     | 20                                                                                    |
| 400479-K      | G.513         | spare key for key selector                      |  |     |        | IP65     | 2                                                                                     |
| 400457-PLT    | ECX3131       | with latch, twist to release, ø 40 mm           |  |     |        | IP65     | 10                                                                                    |
| 400488-PLT    | ECX3137       | momentary, ø 60 mm                              |  |     |        | IP65     | 10                                                                                    |
| 400488.01-PLT | ECX3135       | momentary, ø 40 mm                              |  |     |        | IP65     | 10                                                                                    |
| 400455-PLT    | ECX 3029N     | plastic support base for plastic-body selectors |                                                                                       |     |        |          | 25                                                                                    |
| 400411-PLT    | ECX1040N      | contact element NO                              |                                                                                       | 2,8 | 24 VDC | IP20     | 100                                                                                   |
| 400412-PLT    | ECX1030N      | contact element NC                              |                                                                                       | 2,8 | 24 VDC | IP20     | 100                                                                                   |
| 400424        | ECX 3055N-12L | light selector lamp holder                      |                                                                                       | -   | 12 VDC | IP20     | 100                                                                                   |
| 400421.02     | ECX3055N-24L  | 24 V white LED                                  |                                                                                       | 2,8 | 24 VDC | IP20     | 100                                                                                   |
| 400421.02-R   | ECX3051N-24L  | 24 V red LED                                    |                                                                                       | 2,8 | 24 VDC |          |                                                                                       |

## ■ ■ Selettori COMEPI® ø22 mm- ■ ■ COMEPI® Selectors ø22 mm



| Cod.      | COMEPI ref.  | Description                                  | Color | IP Grade |    |
|-----------|--------------|----------------------------------------------|-------|----------|----|
| 400436    | ECX1241      | momentary, red                               |       | IP65     | 20 |
| 400436-G  | ECX1242      | momentary, green                             |       | IP65     | 20 |
| 400532    | ECX1252      | 2 pos., maintained                           |       | IP65     | 20 |
| 400533    | ECX1261      | 3 pos., maintained                           |       | IP65     | 20 |
| 400516    | ECX1300      | 2 positions, maintained                      |       | IP65     | 20 |
| 400421    | ECX1251      | 2 pos., maintained                           |       | IP65     | 20 |
| 400537    | ECX1320      | 3 pos., maintained                           |       | IP65     | 20 |
| 400542    | ECX1330      | 3 pos., momentary w/ center return           |       | IP65     | 20 |
| 400511    | ECX1310      | 2 pos., momentary                            |       | IP65     | 20 |
| 400409    | ECX1430      | key selector, 2 positions, with right return |       |          | 20 |
| 400479    | ECX1420      | key selector, 2 positions, maintained        |       |          | 20 |
| 400586    | ECX1470      | key selector, 3 positions, maintained        |       |          | 20 |
| 400479-K  | G.513        | spare key for key selector                   |       |          | 2  |
| 400421.01 | ECX1050      | lampholder w/support base                    |       | IP20     | 20 |
| 400213    | ATBA.9.23.12 | 12 V light bulb (12 V - 2 W)                 |       |          | 20 |

## ■ ■ Accessori per COMEPI® ø22 mm - ■ ■ Accessories for COMEPI® ø22 mm



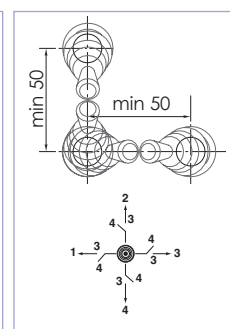
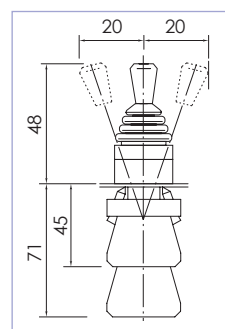
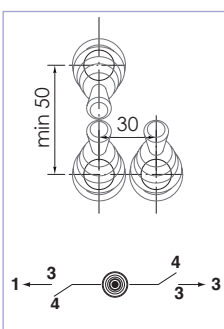
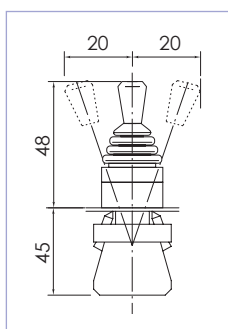
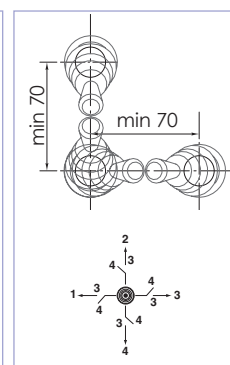
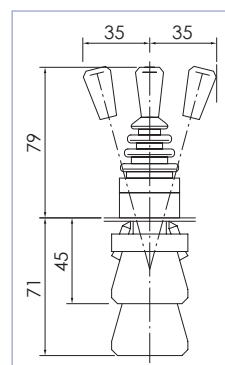
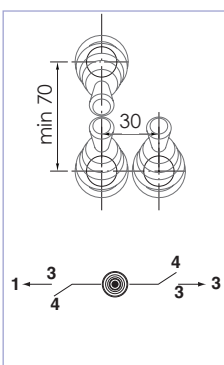
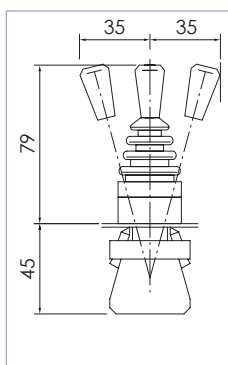
400538



400539

| Cod.   | COMEPI ref. | Description              |    |
|--------|-------------|--------------------------|----|
| 400538 | ECX1850     | Nameplate 30x48 mm       | 10 |
| 400539 | ECX1651     | "EMERGENCY STOP" sticker | 10 |

## ■ ■ Manipolatori ø22 mm COMEPI® - ■ ■ COMEPI® Joysticks ø22 mm



| Cod.      | COMEPI ref. | Functions | Maintained | Momentary | A   | V      | Note               | IP Grade |   |
|-----------|-------------|-----------|------------|-----------|-----|--------|--------------------|----------|---|
| 400416    | ECX1520     | 4         | -          | ABCD      |     |        | lever lenght 79 mm |          | 5 |
| 400416.01 | ECX1550     | 4         | -          | ABCD      |     |        | lever lenght 48 mm |          | 5 |
| 400423    | ECX1521     | 4         | A          | BCD       |     |        | lever lenght 79 mm | IP65     | 5 |
| 400427    | ECX1522     | 4         | AB         | CD        | 2,8 | 24 VDC | lever lenght 79 mm |          | 5 |
| 400438    | ECX1523     | 4         | ABC        | D         |     |        | lever lenght 79 mm |          | 5 |
| 400442    | ECX1524     | 4         | ABCD       | -         |     |        | lever lenght 79 mm |          | 5 |
| 400408    | ECX1510     | 2         | -          | AB        |     |        | lever lenght 79 mm |          | 5 |
| 400408.01 | ECX1540     | 2         | -          | AB        |     |        | lever lenght 48 mm |          | 5 |
| 400431    | ECX1511     | 2         | A          | B         | 2,8 | 24 VDC | lever lenght 79 mm | IP65     | 5 |
| 400431.01 | ECX1541     | 2         | A          | B         |     |        | lever lenght 48 mm |          | 5 |
| 400449    | ECX1512     | 2         | AB         | -         |     |        | lever lenght 79 mm |          | 5 |
| 400449.01 | ECX1542     | 2         | AB         | -         |     |        | lever lenght 48 mm |          | 5 |

## **Finecorsa Comepi®** - **Comepi®** limit switches



| Cod.      | Comepi Ref. | Body material | Type                      | Contact type | Size (A x B) | A   | V      |  | IP Grade |  |
|-----------|-------------|---------------|---------------------------|--------------|--------------|-----|--------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|
| 400491    | AP1T14Z11   | technopolimer | rod with cover            | NO + NC      | 30,3 x 53    | 2,8 | 24 VDC | PG 13,5                                                                             | IP65     | 1                                                                                   |
| 400491.02 | AP1T14W20   | technopolimer | rod with cover            | 2 NO         | 30,3 x 53    | 2,8 | 24 VDC | PG 13,5                                                                             | IP65     | 1                                                                                   |
| 400491.01 | AM1F11Z11   | metal         | rod with cover            | NO + NC      | 30,3 x 55    | 2,8 | 24 VDC | PG 13,5                                                                             | IP66     | 1                                                                                   |
| 400492    | AP1T35Z11   | technopolimer | with metal head           | NO + NC      | 30,3 x 53    | 2,8 | 24 VDC | PG 13,5                                                                             | IP65     | 1                                                                                   |
| 400582    | AP1T43Z11   | technopolimer | metal wheel with arm      | NO + NC      | 30,3 x 53    | 2,8 | 24 VDC | PG 13,5                                                                             | IP65     | 1                                                                                   |
| 400582.01 | AM1F43Z11   | metal         | metal wheel with arm      | NO + NC      | 30,3 x 55    | 2,8 | 24 VDC | PG 13,5                                                                             | IP66     | 1                                                                                   |
| 400500    | AP1T98Z11A  | technopolimer | with ring                 | NO + NC      | 30,3 x 53    | 2,8 | 24 VDC | PG 13,5                                                                             | IP65     | 1                                                                                   |
| 400583    | AP1T13X11   | technopolimer | rod with wheel            | NO + NC      | 30,3 x 53    | 2,8 | 24 VDC | PG 13,5                                                                             | IP65     | 1                                                                                   |
| 400583.01 | AM1F12Z11   | metal         | rod with wheel            | NO + NC      | 30,3 x 55    | 2,8 | 24 VDC | PG 13,5                                                                             | IP66     | 1                                                                                   |
| 400490    | BM1E93Z11   | metal         | multidirectional - spring | NO + NC      | 40 x 76,5    | 2,8 | 24 VDC | PG 13,5                                                                             | IP65     | 1                                                                                   |
| 400490.01 | BM1E62Z11   | metal         | unidirectional - spring   | NO + NC      | 40 x 76,5    | 2,8 | 24 VDC | PG 13,5                                                                             | IP66     | 1                                                                                   |
| 400599    | EM1G24Z     | metal         | rod with wheel            | NO + NC      | 40 x 31,5    | 1,1 | 24 VDC | 1m 5x0,75 cable                                                                     | IP67     | 1                                                                                   |
| 400600    | EM1G12Z     | metal         | rod with wheel            | NO + NC      | 40 x 31,5    | 1,1 | 24 VDC | 1m 5x0,75 cable                                                                     | IP67     | 1                                                                                   |

## **Finecorsa Pizzato®** - **Pizzato®** limit switches



| Cod.   | Pizzato Ref. | Body material | Type                              | Contact type | Size (A x B) | A | V     |  | IP Grade |  |
|--------|--------------|---------------|-----------------------------------|--------------|--------------|---|-------|---------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|
| 400494 | FD535        | metal         | plastic wheel with adjustable arm | NO + NC      | 40 x 60      | 6 | 24VDC | PG 13,5                                                                               | IP67     | 1                                                                                     |
| 400513 | FC315        | metal         | rod with wheel                    | NO + NC      | 40 x 44      | 6 | 24VDC | PG 11                                                                                 | IP67     | 1                                                                                     |

**Spine Members® per rimorchio a 7 e 13 poli - Members® 7 & 13 pin trailer plugs** **DIN 72570 / ISO 11446**



| Cod.   | Description          | V  |  |
|--------|----------------------|----|-------------------------------------------------------------------------------------|
| 400553 | 7 poles Plug - 12 V  | 12 | 1                                                                                   |
| 400535 | 13 poles Plug - 12 V | 12 | 1                                                                                   |

**Prese Members® tipo N a 7 e 13 poli - Members® 7 & 13 pin type N trailer sockets** **ISO 1185**

**ISO 1724**  
**ISO 3731**



| Cod.      | Description                       | V  |  |
|-----------|-----------------------------------|----|-------------------------------------------------------------------------------------|
| 400503    | 7 poles Socket - 12 V             | 12 | 1                                                                                   |
| 400503.01 | Seal for 400503                   | -  | 20                                                                                  |
| 400534    | 13 poles Socket - 12 V            | 12 | 1                                                                                   |
| 400546    | 7 poles Socket - 24 V (ISO 1185)  | 24 | 1                                                                                   |
| 400536    | 7 poles Socket - 24 V (ISO 3731)  | 24 |                                                                                     |
| 906085    | 8x1 cable + 7 poles socket (12 V) | 12 | 1                                                                                   |

**Prese e Spine Accendisigari - Lighter Sockets and Plugs**

| Cod.      | Description                           | A  | VDC   |  |
|-----------|---------------------------------------|----|-------|-------------------------------------------------------------------------------------|
| 400509    | High Quality Lighter Socket (12/24 V) | 15 | 12/24 | 1                                                                                   |
| 400509.01 | Lighter Socket                        | 10 | 12/24 | 1                                                                                   |
| 400508    | Unipolar Lighter Socket               | 10 | 12/24 | 1                                                                                   |
| 400548    | USB Socket d.27 With led              |    | 12/24 | 1                                                                                   |
| 400502    | 2 USB Socket d.28 With led            |    | 12/24 | 1                                                                                   |

|           |                                              |     |       |    |
|-----------|----------------------------------------------|-----|-------|----|
| 400555    | High Quality Lighter Plug with LED (12/24 V) | 15  | 12    | 10 |
| 400555.01 | High Quality Lighter Plug                    | 8   | 12/24 | 10 |
| 400505    | Lighter Plug                                 | 8   | 12/24 | 1  |
| 400506    | Unipolar Lighter Plug                        | 8   | 12/24 | 1  |
| 400550    | Lighter Plug 2 USB                           | 2,4 | 12/24 | 1  |



## Pinze a Coccodrillo - Crocodile Clips



| Cod.      | Description                           | A  | VDC   |   |
|-----------|---------------------------------------|----|-------|---|
| 406105    | High Quality Lighter Socket (12/24 V) | 15 | 12/24 | 1 |
| 406106    | Lighter Socket                        | 10 | 12/24 | 1 |
| BL-406105 | Unipolar Lighter Socket               | 10 | 12/24 | 1 |

## Prese e Spine 10 A - 10 A Sockets & Plugs



| Cod.   | Description        | A  | VDC   |   |
|--------|--------------------|----|-------|---|
| 905048 | 2 poles Socket kit | 10 | 12/24 | 1 |
| 400501 | 2 poles Socket     | 10 | 12/24 | 1 |
| 400551 | 2 poles Plug       | 10 | 12/24 | 1 |

## Fusibili - Fuses



| Fuse (A) | (5x20) | (6x32) |            | STD    | MAXI      | MINI      | MINIVAL LOW PROFILE |     |
|----------|--------|--------|------------|--------|-----------|-----------|---------------------|-----|
| 1        | -      | -      | -          | 400302 | -         | -         | -                   | 100 |
| 2        | 400356 | 400360 | -          | 400364 | -         | 400364.02 | -                   | 100 |
| 3        | -      | -      | -          | 400363 | -         | 400363.02 | -                   | 100 |
| 3,15     | 400357 | -      | -          | -      | -         | -         | -                   | 100 |
| 4        | 400380 | -      | -          | -      | -         | 400382.02 | -                   | 100 |
| 5        | 400353 | -      | -          | 400362 | -         | 400362.02 | -                   | 100 |
| 7,5      | -      | -      | -          | 400379 | -         | 400379.02 | 400379.03           | 100 |
| 8        | 400378 | -      | -          | -      | -         | -         | -                   | 100 |
| 10       | 400352 | 400351 | -          | 400358 | -         | 400358.02 | 400358.03           | 100 |
| 15       | -      | 400370 | -          | 400366 | -         | 400366.02 | 400366.03           | 100 |
| 16       | 400355 | -      | -          | -      | -         | -         | -                   | 100 |
| 20       | 400376 | 400367 | -          | 400361 | 400361.01 | 400361.02 | -                   | 100 |
| 25       | -      | 400373 | -          | 400369 | 400369.01 | 400369.02 | -                   | 100 |
| 30       | -      | 400368 | 400381-30A | 400374 | 400374.01 | 400374.02 | -                   | 100 |
| 40       | -      | -      | 400372     | 400377 | 400377.01 | -         | -                   | 100 |

## Portafusibili - Fuseholders

|                                                                    |                                                                       |                                                                      |                                                                        |
|--------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>400303</b><br>10 A<br>250 V<br>(5x20)                           | <b>400309</b><br>16 A<br>250 V<br>(5x20)                              | <b>400314</b><br>10 A<br>250 V<br>Bakelite<br>(5x20)                 | <b>400301</b><br>15 A<br>250 V<br>(6x32)                               |
| <b>400313</b><br>125 A<br>12-24 V<br>                              | <b>400315 "MIDI"</b><br>150 A<br>32 V<br>                             | <b>400365</b><br>40 A<br>12-80 V<br>STD                              | <b>400312</b><br>40 A<br>12-50 V<br>STD                                |
| <b>400308</b><br>30 A<br>12-24 V<br>STD<br>10<br>UL - 12 AWG Cable | <b>400308.03</b><br>40 A<br>12-24 V<br>STD<br>10<br>UL - 10 AWG Cable | <b>400308.01</b><br>80 A<br>12-24 V<br>MAXI<br>1<br>UL - 8 AWG Cable | <b>400308.02</b><br>30 A<br>12-24 V<br>MINI<br>10<br>UL - 12 AWG Cable |

## Connettori Deutsch® serie DT/DTP

IP67

- Contatti in rame nickelato per fili di diametro massimo AWG16 (1,5mm²).
- materiale termoplastico con aggancio a scatto;
  - guarnizioni in silicone per una maggior resistenza all'umidità (IP68);
  - range di funzionamento da -55°C a +125°C ;
  - corrente massima 13A (AWG20) @ 125°C continui;
  - contatti inseribili ed estraibili manualmente;
  - cappucci protettivi in PVC (optional).

## Deutsch® DT/DTP series connectors

IP67

- Nickel-plated copper contacts for wires up to 1,5 mm² (AWG 16).
- thermo-plastic material with snap coupling
  - silicon seals for higher humidity resistance (IP68)
  - operating range from -55°C to 125°C
  - 13A maximum current (AWG 20) at continuous 125°C
  - contacts can be inserted and removed manually
  - PVC protection covers (optional)

| Cod.      | Deutsch ref.      | #  |  |
|-----------|-------------------|----|-----------------------------------------------------------------------------------|
| 406010    | DTHD-04-1-4-P     | 1  | 10                                                                                |
| 406309    | DTHD-04-1-8-P     | 1  | 10                                                                                |
| 406327    | DTP04-2P          | 2  | 10                                                                                |
| 406483    | DTP04-4P          | 4  | 10                                                                                |
| 406093.01 | DT042P-E008       | 2  | 10                                                                                |
| 406425    | DT042P-E005       | 2  | 10                                                                                |
| 406206.01 | DT044P-E008       | 4  | 10                                                                                |
| 406186    | DT2P-BT           | 2  | 10                                                                                |
| 406184    | DT3P-BT           | 3  | 10                                                                                |
| 406297    | DT4P-BT           | 4  | 10                                                                                |
| 406203    | DT6P-BT           | 6  | 10                                                                                |
| 406301    | DT8P-BT           | 8  | 10                                                                                |
| 406188    | DT12P-BT          | 12 | 10                                                                                |
| 406184-BK | DT3P-BT-BK        | 3  | 10                                                                                |
| 406297-BK | DT4P-BT-BK        | 4  | 10                                                                                |
| 406203-BK | DT6P-BT-BK        | 6  | 10                                                                                |
| 406301-BK | DT8P-BT-BK        | 8  | 10                                                                                |
| 406188-BK | DT12P-BT-BK       | 12 | 10                                                                                |
| 406093    | DT04-2P           | 2  | 10                                                                                |
| 406089    | DT04-3P           | 3  | 10                                                                                |
| 406206    | DT04-4P           | 4  | 10                                                                                |
| 406085    | DT04-6P           | 6  | 10                                                                                |
| 406180    | DT04-8P           | 8  | 10                                                                                |
| 406430    | DT04-08PA-CL06    | 8  | 10                                                                                |
| 406081    | DT04-12P          | 12 | 10                                                                                |
| 406185.01 | Salvarani product | 2  | 10                                                                                |
| 406184.01 |                   | 3  | 10                                                                                |
| 406297.01 |                   | 4  | 10                                                                                |
| 406203.01 |                   | 6  | 10                                                                                |
| 406211.01 |                   | 8  | 10                                                                                |
| 406187.01 |                   | 12 | 10                                                                                |
| 406089.02 | DT04-3P-LE08      | 3  | 10                                                                                |
| 406081.01 | DT04-12PA-LE01    | 12 | 10                                                                                |
| 406081.02 | DT04-12PA-LO12    | 12 | 10                                                                                |
| 406096    | W-2P              | 2  | 10                                                                                |
| 406327.01 | WP-2P             | 2  | 10                                                                                |
| 406091    | W-3P              | 3  | 10                                                                                |
| 406208    | W-4P              | 4  | 10                                                                                |
| 406483.01 | WP-4P             | 4  | 10                                                                                |
| 406087    | W-6P              | 6  | 10                                                                                |
| 406182    | W-8P              | 8  | 10                                                                                |
| 406084    | W-12P             | 12 | 10                                                                                |

| Cod.      | Deutsch ref.   | Section (mm²) |       |
|-----------|----------------|---------------|------------------------------------------------------------------------------------------|
| BL-406524 | 1060160122     | 0,75-1,5      | 100                                                                                      |
| 406524    | 1060160122     | 0,75-1,5      | 4000  |
| 406586    | 1060160622     | 0,5-1,0       | 4000  |
| 406584    | 1060161222     | 1,0-2,5       | 4000  |
| 406655    | 1060-12-0166   | 2,0-3,0       | 2500  |
| 406616    | 0460-202-16141 | 0,5-1,0       | 10                                                                                       |
| 406625    | 0460-204-12141 | 2,0-3,0       | 10                                                                                       |
| 406652    | 0460-204-0490  | 13,0-16,0     | 10                                                                                       |
| 406577    | 0460-204-08141 | 5,0-8,0       | 10                                                                                       |

| Cod.      | Deutsch ref.      | #  |  |
|-----------|-------------------|----|-------------------------------------------------------------------------------------|
| 406310    | DTHD-06-1-8-S     | 1  | 10                                                                                  |
| 406422    | DTP 06-2S         | 2  | 10                                                                                  |
| 406424    | DTP 06-4S         | 4  | 10                                                                                  |
| 406207.01 | DT064S-E008       | 4  | 10                                                                                  |
| 406185    | DT2S-BT           | 2  | 10                                                                                  |
| 406183    | DT3S-BT           | 3  | 10                                                                                  |
| 406210    | DT4S-BT           | 4  | 10                                                                                  |
| 406202    | DT6S-BT           | 6  | 10                                                                                  |
| 406211    | DT8S-BT           | 8  | 10                                                                                  |
| 406187    | DT12S-BT          | 12 | 10                                                                                  |
| 406185-BK | DT2S-BT-BK        | 2  | 10                                                                                  |
| 406183-BK | DT3S-BT-BK        | 3  | 10                                                                                  |
| 406210-BK | DT4S-BT-BK        | 4  | 10                                                                                  |
| 406202-BK | DT6S-BT-BK        | 6  | 10                                                                                  |
| 406211-BK | DT8S-BT-BK        | 8  | 10                                                                                  |
| 406187-BK | DT12S-BT-BK       | 12 | 10                                                                                  |
| 406186.01 | Salvarani product | 2  | 10                                                                                  |
| 406183.01 |                   | 3  | 10                                                                                  |
| 406210.01 |                   | 4  | 10                                                                                  |
| 406202.01 |                   | 6  | 10                                                                                  |
| 406301.01 |                   | 8  | 10                                                                                  |
| 406188.01 |                   | 12 | 10                                                                                  |
| 406094    | DT06-2S           | 2  | 10                                                                                  |
| 406090    | DT06-3S           | 3  | 10                                                                                  |
| 406042    | DT06-3S-EP06      | 3  | 10                                                                                  |
| 406207    | DT06-4S           | 4  | 10                                                                                  |
| 406086    | DT06-6S           | 6  | 10                                                                                  |
| 406086.02 | DT06-6S-P012      | 6  | 10                                                                                  |
| 406179    | DT06-8S           | 8  | 10                                                                                  |
| 406082    | DT06-12S          | 12 | 10                                                                                  |
| 406095    | W-2S              | 2  | 10                                                                                  |
| 406422.01 | WP-2S             | 2  | 10                                                                                  |
| 406092    | W-3S              | 3  | 10                                                                                  |
| 406042.01 | W3S-P012          | 3  | 10                                                                                  |
| 406209    | W-4S              | 4  | 10                                                                                  |
| 406424.01 | WP-4S             | 4  | 10                                                                                  |
| 406088    | W-6S              | 6  | 10                                                                                  |
| 406088.02 | W6S-P012          | 6  | 10                                                                                  |
| 406181    | W-8S              | 8  | 10                                                                                  |
| 406083    | W-12S             | 12 | 10                                                                                  |

| Cod.          | Deutsch ref.     | # |  |
|---------------|------------------|---|---------------------------------------------------------------------------------------|
| 406094.01-LED | DT06-2S-STD-CE27 | 2 | 10                                                                                    |
| 406095-L12V   | W2S-SDT-12V      | 2 | 10                                                                                    |
| 406095-L24V   | W2S-SDT-24V      | 2 | 10                                                                                    |

| Cod.         | Deutsch ref.   | Section (mm²) |       |
|--------------|----------------|---------------|--------------------------------------------------------------------------------------------|
| BL-406525    | 1062160122     | 0,75-1,5      | 100                                                                                        |
| 406525       | 1062160122     | 0,75-1,5      | 4000  |
| 406620       | 1062140122     | 0,8-2,0       | 4000  |
| BL-406572.01 | 1062-12-0166   | 2,0-3,0       | 100                                                                                        |
| 406572.01    | 1062-12-0166   | 2,0-3,0       | 2500  |
| BL-406587    | 1062160622     | 0,5-1,0       | 100                                                                                        |
| 406587       | 1062160622     | 0,5-1,0       | 4000  |
| BL-406585    | 1062-16-1222   | 1,0-2,5       | 100                                                                                        |
| 406585       | 1062161222     | 1,0-2,5       | 4000  |
| 406572       | 0462-203-12141 | 2,0-3,0       | 10                                                                                         |
| 406576       | 0462-203-08141 | 5,0-8,0       | 10                                                                                         |
| 406608       | 0462-203-04141 | 13-16         | 10                                                                                         |

## Connettori Deutsch® serie DTM

IP67

- materiale termoplastico con aggancio a scatto;
- guarnizioni in silicone per una maggior resistenza all'umidità (IP68);
- range di funzionamento da -55°C a +125°C;
- corrente massima 7,5A @ 125°C continui;

## Deutsch® DTM series connectors

IP67

- thermo-plastic material with snap coupling;
- silicon seals for higher humidity resistance (IP68);
- operating range from -55°C to 125°C;
- 7,5A maximum current at continuous 125°C.

| Cod.      | Deutsch ref. | #  |    |
|-----------|--------------|----|----|
| 406291    | DTM04-2P     | 2  | 10 |
| 406293    | DTM04-3P     | 3  | 10 |
| 406296    | DTM04-4P     | 4  | 10 |
| 406288    | DTM04-6P     | 6  | 10 |
| 406190    | DTM04-12PA   | 12 | 10 |
| 406291.01 | WM2P         | 2  | 10 |
| 406293.01 | WM3P         | 3  | 10 |
| 406296.01 | WM4P         | 4  | 10 |
| 406288.01 | WM6P         | 6  | 10 |
| 406191    | WM12P        | 12 | 10 |
| 406323    | DTM2P-BT     | 2  | 10 |
| 406477    | DTM3P-BT     | 3  | 10 |

| Cod.   | Deutsch ref.  | Section (mm²) |    |
|--------|---------------|---------------|----|
| 406458 | 1028-034-1205 | 12            | 10 |

| Cod.      | Deutsch ref. | Section (mm²) |      |
|-----------|--------------|---------------|------|
| BL-406546 | 1060200122   | 0,5-1         | 100  |
| 406546    | 1060200122   | 0,5-1         | 4000 |

| Cod.        | Deutsch ref.    | #  |    |
|-------------|-----------------|----|----|
| 406292      | DTM06-2S        | 2  | 10 |
| 406294      | DTM06-3S        | 3  | 10 |
| 406295      | DTM06-4S        | 4  | 10 |
| 406290      | DTM06-6S        | 6  | 10 |
| 406189      | DTM06-12SA      | 12 | 10 |
| 406189-B    | DTM06-12SB      | 12 | 10 |
| 406189.01   | DTM06-12SA-E007 | 12 | 10 |
| 406189-B.01 | DTM06-12SB-E007 | 12 | 10 |
| 406292.01   | WM2S            | 2  | 10 |
| 406294.01   | WM3S            | 3  | 10 |
| 406295.01   | WM4S            | 4  | 10 |
| 406290.01   | WM6S            | 6  | 10 |
| 406192      | WM12S           | 12 | 10 |
| 406322      | DTM2S-BT        | 2  | 10 |

| Cod.   | Deutsch ref.  | Section (mm²) |    |
|--------|---------------|---------------|----|
| 406459 | 1028-015-1205 | 12            | 10 |

| Cod.      | Deutsch ref. | Section (mm²) |      |
|-----------|--------------|---------------|------|
| BL-406547 | 1062200122   | 0,5-1         | 100  |
| 406547    | 1062200122   | 0,5-1         | 4000 |
| 406547.01 | 1062200144   | 0,5-1         | 4000 |

Gold Series

## Accessori per Deutsch® - Deutsch® accessories



| Cod.      | Deutsch ref.  | Description                       | Serie      |     |
|-----------|---------------|-----------------------------------|------------|-----|
| 406264.01 | 0413-204-2005 | Plug for unused contacts          | DTM        | 100 |
| 406264    | 114017        | Plug for unused contacts          | DT-HPD-DRC | 100 |
| 406339    | 1011-310-0205 | Mounting clip                     | DT-HPD-DRC | 10  |
| 406045    | 1011-237-0405 | Adap. X Sleeve Corr. C.deutsch 4P |            |     |

## Connettori Deutsch® serie DRC

Connettori per applicazioni critiche, con guarnizioni in silicone.

- isolamento dielettrico 1500 VAC
- resistenza isolamento 1000 megaOhm
- temperatura d'esercizio -55 °C - +125 °C
- corrente massima 13A

## Deutsch® DRC series connectors

Heavy duty connectors, with silicon seals

- dielectric insulation 1500 VAC
- insulation resistance 1000 megaOhm
- operating range from -55°C to 125°C
- 13A maximum current

| Cod.      | Deutsch ref.  | #/Note          |   |
|-----------|---------------|-----------------|---|
| 406273    | DRC16-24-SB   | 24              | 1 |
| 406420    | DRC16-40SA    | 40              | 1 |
| 406433    | DRC12-40PA    | 40              | 1 |
| 406649    | DRC26-50S01   | 50              | 1 |
| 406361    | DRC12-70PA    | 70              | 1 |
| 406421    | DRC16-70SA    | 70              | 1 |
| 406273.01 | DRC24BT       | hood for 406273 | 1 |
| 406420.01 | DRC40BT       | hood for 406420 | 1 |
| 406650    | 0528-001-5005 | hood for 406649 | 1 |



## Connettori Deutsch® serie HDP/HD

IP67

Disponibili in versione da 31 contatti. Contatti in rame nickelato per fili di diametro massimo AWG16 (1,5mm²). Utilizza i contatti Deutsch della serie DT e connettori di potenza specifici.

- connettore in robusto materiale termoplastico;
- guarnizioni in silicone per una maggior resistenza all'umidità (IP67);
- range di funzionamento da -55°C a +125°C ;
- corrente massima 7,5A (AWG20), 13A (AWG20) @ 125°C continui;



| Cod.      | Deutsch ref.   | #  |   |
|-----------|----------------|----|---|
| 406429    | HDP24-24-19PE  | 19 | 1 |
| 406435    | HDP24-24-21-PN | 21 | 1 |
| 406428    | HDP24-24-23SN  | 23 | 1 |
| 406270    | HDP24-24-31-PT | 31 | 1 |
| 406448    | HD34-24-31PE   | 31 | 1 |
| 406270.01 | 2414-001-2486  | -  | 1 |
| 406270.02 | 2411-001-2405  | -  | 1 |
| 406464    | HDC16-9        | -  | 1 |



| Cod.      | Deutsch ref.   | Section (mm²) |      |
|-----------|----------------|---------------|------|
| BL-406524 | 1060160122     | 0,75-1,5      | 100  |
| 406524    | 1060160122     | 0,75-1,5      | 4000 |
| 406586    | 1060160622     | 0,5-1,0       | 4000 |
| 406584    | 1060161222     | 1,0-2,5       | 4000 |
| 406577    | 0460-204-08141 | 5,0-8,0       | 10   |
| 406616    | 0460-202-16141 | 0,5-1,0       | 10   |
| 406625    | 0460-204-12141 | 2,0-3,0       | 10   |



## Deutsch® HDP/HD series connectors

IP67

31 contacts version available. Nickel-plated copper contacts for wires up to 1,5 mm² (AWG 16). It uses Deutsch DT series contacts and specific power contacts.

- thermo-plastic material;
- silicon seals for higher humidity resistance (IP67);
- operating range from -55°C to 125°C;
- 7.5A maximum current (AWG 16), 13A at continuous 125°C (AWG20);



| Cod.   | Deutsch ref.   | #  |   |
|--------|----------------|----|---|
| 406280 | HDP26-24-18-SN | 18 | 1 |
| 406427 | HDP26-24-19SE  | 19 | 1 |
| 406434 | HDP26-24-21-SE | 21 | 1 |
| 406269 | HDP26-24-31-ST | 31 | 1 |

| Cod.      | Deutsch ref. | #      |   |
|-----------|--------------|--------|---|
| 406400    | HD36-24-31SE | 31     | 1 |
| 406427.01 | HD30-24BT-BK | cuffia | 1 |
| 406446    | HD36-24-24SE | 23     | 1 |
| 406447    | HDC-34-24    | tappo  | 1 |

| Cod.         | Deutsch ref.   | Section (mm²) |      |
|--------------|----------------|---------------|------|
| BL-406525    | 1062160122     | 0,75-1,5      | 100  |
| 406525       | 1062160122     | 0,75-1,5      | 4000 |
| 406620       | 1062140122     | 0,8-2,0       | 4000 |
| 406587       | 1062160622     | 0,5-1,0       | 4000 |
| BL-406585    | 1062161222     | 1,0-2,5       | 100  |
| 406585       | 1062161222     | 1,0-2,5       | 4000 |
| 406572.01    | 1062120166     | 2,0-3,0       | 2500 |
| BL-406572.01 | 0462-203-12141 | 2,0-3,0       | 10   |
| 406572       | 0462-203-12141 | 2,0-3,0       | 10   |
| 406576       | 0462-203-08141 | 5,0-8,0       | 10   |
| 406608       | 0462-203-04141 | 13-16         | 10   |

## Connettori Tyco® MATE-N-LOK

Ogni connettore può montare entrambi i tipi di contatto. Contatti in ottone stagnato per fili diametro AWG 20-14 (0,5 - 2mm²).

- connettore in poliammide 6.6, passo 6,35mm;
- grado di protezione IP57 con guarnizione e gommino;
- range di funzionamento da -55°C a +105°C ;
- corrente massima 16A, tensione massima 380V;
- nuova protezione esterna.



| Cod.      | Tyco ref.         | #  |      |
|-----------|-------------------|----|------|
| 406112    | 1/480699/0        | 2  | 100  |
| 406111    | 1/480701/0        | 3  | 100  |
| 406163    | 1/480703/0        | 4  | 100  |
| 406143    | 1/480705/0        | 6  | 100  |
| 406147    | 1/480707/0        | 9  | 100  |
| 406141    | 1/480709/0        | 12 | 100  |
| 406141-BK | 1-480709-9        | 12 | 100  |
| 406063    | 1/480711/0        | 15 | 100  |
| 406481    | Salvarani product | 9  | 10   |
| 406302    | Salvarani product | 12 | 10   |
| 406319    | Salvarani product | 15 | 10   |
| 406127    | 794270/1          | 2  | 100  |
| 406129    | 794247/1          | 3  | 100  |
| 406164    | 794274/1          | 4  | 100  |
| 406144    | 764276/1          | 6  | 100  |
| 406148    | 794278/1          | 9  | 100  |
| 406138    | 794280/1          | 12 | 100  |
| 406137    | 794282/1          | 15 | 100  |
| BL-406064 | 350218/1/5K       |    | 100  |
| 406064    | 350218/1/5K       |    | 5000 |

## Tyco® MATE-N-LOK connectors

Both contacts can be mounted on each connector. Tin-plated brass contacts for wires 0,5 - 2mm² (AWG 20-14).

- 6.6 polyamide connector, 6.35 mm pitch;
- IP57 protection with seal and rubber plug;
- operating range from -55°C to 105°C ;
- 16A maximum current, 380V maximum voltage;
- new external protection.



| Cod.      | Tyco ref.         | #  |      |
|-----------|-------------------|----|------|
| 406113    | 1/480698/0        | 2  | 100  |
| 406062    | 1/480700/0        | 3  | 100  |
| 406162    | 1/480702/0        | 4  | 100  |
| 406142    | 1/480704/0        | 6  | 100  |
| 406146    | 1/480706/0        | 9  | 100  |
| 406140    | 1/480708/0        | 12 | 100  |
| 406140-BK | 1-480708-9        | 12 | 100  |
| 406061    | 1/480710/0        | 15 | 100  |
| 406481    | Salvarani product | 9  | 10   |
| 406302    | Salvarani product | 12 | 10   |
| 406319    | Salvarani product | 15 | 10   |
| 406128    | 794269/1          | 2  | 100  |
| 406130    | 794271/1          | 3  | 100  |
| 406165    | 794273/1          | 4  | 100  |
| 406145    | 794275/1          | 6  | 100  |
| 406149    | 794277/1          | 9  | 100  |
| 406139    | 794279/1          | 12 | 100  |
| 406136    | 794281/1          | 15 | 100  |
| BL-406065 | 350536/1/5K       |    | 100  |
| 406065    | 350536/1/5K       |    | 5000 |



## Connettori Tyco® serie CPC

Disponibili nei modelli da 4 a 37 contatti (4, 16, 24, 37). Contatti in ottone con molle in acciaio per fili diametro AWG 18-16 (1-1,5mm²).

- connettore in termoplastica;
- corrente massima supportata 13A;
- range di funzionamento da -55°C a +125°C.



| Cod.      | Tyco ref.  | #     |   |
|-----------|------------|-------|---|
| 406261    | 10206062/6 | 4     | 1 |
| 406272.01 | 206966/7   | 9     | 1 |
| 406037    | 182655/1   | 16    | 1 |
| 406032    | 182652/1   | 24/37 | 1 |



| Cod.      | Tyco ref. | # /Note |     |
|-----------|-----------|---------|-----|
| 406379    | 206036/2  | 3       | 25  |
| 406379.01 | 206403/2  | O-ring  | 100 |
| 406272    | 182922/1  | 9       | 1   |
| 406038    | 182916/1  | 16      | 1   |
| 406033    | 206838/1  | 24      | 1   |
| 406035    | 182918/1  | 37      | 1   |



|        |          |    |   |
|--------|----------|----|---|
| 406329 | 208471-1 | 37 | 1 |
|--------|----------|----|---|



|        |          |    |   |
|--------|----------|----|---|
| 406262 | 206429/1 | 4  | 1 |
| 406200 | 182926/1 | 37 | 1 |



|        |          |    |   |
|--------|----------|----|---|
| 406475 | 206903/2 | 4  | 1 |
| 406374 | 208680/1 | 37 | 1 |



|           |           |             |      |
|-----------|-----------|-------------|------|
| BL-406512 | 1-66098/8 | 0,75÷1,5mm² | 100  |
| 406512    | 1-66098/8 | 0,75÷1,5mm² | 4000 |

## Tyco® CPC series connectors

Available from 4 to 37 contacts (4, 9, 16, 24, 37) Brass contacts with steel springs for wires 1-1,5 mm² (AWG18-16).

- thermo-plastic connector;
- 13A maximum current;
- operating range from -55°C to 125°C.



| Cod.      | Tyco ref.  | #     |   |
|-----------|------------|-------|---|
| 406261    | 10206062/6 | 4     | 1 |
| 406272.01 | 206966/7   | 9     | 1 |
| 406037    | 182655/1   | 16    | 1 |
| 406032    | 182652/1   | 24/37 | 1 |
| 406645    | 182661-1   | 28    | 1 |



| Cod.   | Tyco ref. | # /Note |   |
|--------|-----------|---------|---|
| 406466 | 206037/2  | 3       | 1 |
| 406263 | 183083/1  | 4       | 1 |
| 406274 | 206708/1  | 9       | 1 |
| 406036 | 206037/1  | 16      | 1 |
| 406031 | 206837/1  | 24      | 1 |
| 406643 | 205839-3  | 28      | 1 |
| 406034 | 182923/1  | 37      | 1 |



|        |          |    |   |
|--------|----------|----|---|
| 406328 | 208470-3 | 37 | 1 |
|--------|----------|----|---|



|        |          |   |   |
|--------|----------|---|---|
| 406260 | 206430/1 | 4 | 1 |
|--------|----------|---|---|



|        |          |    |   |
|--------|----------|----|---|
| 406224 | 182920/1 | 37 | 1 |
|--------|----------|----|---|



|           |           |             |     |
|-----------|-----------|-------------|-----|
| BL-406513 | 1-66100-9 | 0,75÷1,5mm² | 100 |
|-----------|-----------|-------------|-----|



|        |           |             |      |
|--------|-----------|-------------|------|
| 406513 | 1-66100-9 | 0,75÷1,5mm² | 4000 |
|--------|-----------|-------------|------|

|           |         |             |      |
|-----------|---------|-------------|------|
| 406513.01 | 66100/9 | 0,65÷1,6mm² | 4000 |
| 406644    | 66504-3 | 0,3÷0,5mm²  | 10   |

|        |         |          |    |
|--------|---------|----------|----|
| 406607 | 66740/6 | 2 ÷ 3mm² | 10 |
| 406631 | 66740/2 | 2 ÷ 3mm² | 10 |

## Accessori per Tyco® - Tyco® accessories



406229



406076

| Cod.   | Deutsch ref. | Description                            | Serie      |     |
|--------|--------------|----------------------------------------|------------|-----|
| 406229 | 770377-1     | Plug for unused contacts               | MATE-N-LOK | 100 |
| 406076 | 213812/1     | Coupling ring for 24/37 pins connector | CPT        | 10  |

## Connettore circolare Amphenol serie ISOBUS

- tensione di esercizio 24 V DC
- corrente continua massima 5A (4 x 0,5 mm²), 25A (2 x 2,5 mm²), 70A (2 x 10 mm²)
- temperatura di esercizio -40 °C - +125 °C
- materiale poliammide
- n° contatti 9
- grado di protezione IP67 - IP69K

## Amphenol ISOBUS series Circular Connector

- operating voltage 24 V DC
- maximum current 5A (4 x 0,5 mm²), 25A (2 x 2,5 mm²), 70A (2 x 10 mm²)
- operating range from -40 °C to +125 °C
- material polyamide
- n° 9 pins
- IP67 - IP69K protection



| Cod.   | Amphenol ref.              | # / Section |   |
|--------|----------------------------|-------------|---|
| 406471 | AHDP06-24-91S-BS1-K10M Kit | 9           | 1 |
| 406472 | AHDC24-24                  | Cap         | 1 |

## Connettori Souriau®/ITT® serie UTG

- connettore in robusto materiale termoplastico caricato vetro con aggancio a scatto, accoppiamenti in metallo;
- range di funzionamento da -55°C a +125°C ;
- corrente massima supportata 13A;
- due tipi di serracavo disponibili.

## Souriau®/ITT® UTG series connectors

- Robust glass-filled thermoplastic connector with snap-on connection, metal couplings;
- operating range from -55°C to 125°C;
- 13A maximum current;
- 2 cable clamps available.

| <div><div><div>NEW</div></div><div></div></div> |    |                                                                                         |                                                                                           |                                                                                   |   | <div></div> |              |    |                                                                                         |                                                                                           |                                                                                     | <div></div> |        |              |    |                                                                                           |                                                                                             |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------|--------------|----|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------|--------------|----|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cod.                                                                                                                             | #  | <br>mm | <br>(mm) |  |   | Cod.                                                                                         | Souriau ref. | #  | <br>mm | <br>(mm) |  |                                                                                                | Cod.   | Souriau ref. | #  | <br>mm | <br>(mm) |  |
| 406080.03                                                                                                                        | 8  | 54                                                                                      | PG 11                                                                                     | 5÷10                                                                              | 1 | 406080.01                                                                                    | UTG12ST      | 8  | 60                                                                                      | PG 11                                                                                     | 5÷10                                                                                | 1                                                                                              | 406080 | UTG12AC      | 8  | 40                                                                                        | 12,5                                                                                        | 1                                                                                   |
| 406104.03                                                                                                                        | 12 | 54                                                                                      | PG 13,5                                                                                   | 6÷12                                                                              | 1 | 406104.01                                                                                    | UTG14ST      | 12 | 65                                                                                      | PG 13,5                                                                                   | 6÷12                                                                                | 1                                                                                              | 406104 | UTG14AC      | 12 | 46                                                                                        | 14                                                                                          | 1                                                                                   |
| 406194.03                                                                                                                        | 19 | 63                                                                                      | M25x1,5                                                                                   | 11÷17                                                                             | 1 | 406194.01                                                                                    | UTG16ST      | 19 | 72                                                                                      | PG 16                                                                                     | 10÷14                                                                               | 1                                                                                              | 406195 | UTG16AC      | 19 | 46                                                                                        | 16,5                                                                                        | 1                                                                                   |
| 406078.03                                                                                                                        | 28 | 70                                                                                      | PG 21                                                                                     | 13÷18                                                                             | 1 | 406357.01                                                                                    | UTG18ST      | 23 | 76                                                                                      | PG 16                                                                                     | 10÷14                                                                               | 1                                                                                              | 406357 | UTG18AC      | 23 | 50                                                                                        | 19                                                                                          | 1                                                                                   |
|                                                                                                                                  |    |                                                                                         |                                                                                           |                                                                                   |   | 406078.01                                                                                    | UTG20ST      | 28 | 85                                                                                      | PG 21                                                                                     | 13÷18                                                                               | 1                                                                                              | 406078 | UTG20AC      | 28 | 55                                                                                        | 21                                                                                          | 1                                                                                   |
|                                                                                                                                  |    |                                                                                         |                                                                                           |                                                                                   |   | 406242.01                                                                                    | UTG24ST      | 48 | 91                                                                                      |                                                                                           | 13÷20                                                                               | 1                                                                                              | 406242 | UTG24AC      | 48 | 65                                                                                        | 25                                                                                          | 1                                                                                   |

| Cod.      | Souriau ref. | # / Note    |      |
|-----------|--------------|-------------|------|
| 406102    | UTG01412P    | 12          | 1    |
| 406196    | UTG01619P    | 19          | 1    |
| 406401    | UTG01823P    | 23          | 1    |
| 406160    | UTG02028P    | 28          | 1    |
| 406406    | UTG02235P    | 35          | 1    |
| 406409    | UTG02448P    | 48          | 1    |
| 406102.01 | UTG11412P    | 12          | 1    |
| 406196.01 | UTG11619P    | 19          | 1    |
| 406079    | UTG6128PN    | 8           | 1    |
| 406410    | UTG61412PN   | 12          | 1    |
| 406432    | UTG61619PN   | 19          | 1    |
| 406356    | UTG61823PN   | 23          | 1    |
| 406171    | UTG62028PN   | 28          | 1    |
| 406412    | UTG62448PN   | 48          | 1    |
| 406399    | UTG612DCG    | 8           | 1    |
| 406235    | UTG614DCG    | 12          | 1    |
| 406258    | UTG616DCG    | 19          | 1    |
| 406377    | UTG618DCG    | 23          | 1    |
| 406234    | UTG620DCG    | 28          | 1    |
| BL-406588 | SM20M1TK6    | 0,35-0,5mm² | 100  |
| 406588    | SM20M1TK6    | 0,35-0,5mm² | 3000 |
| BL-406058 | SM16M11TK6   | 0,8-1,5 mm² | 100  |
| 406058    | SM16M11TK6   | 0,8-1,5 mm² | 3000 |
| BL-406592 | SM14M1TK6    | 2-2,5 mm²   | 100  |
| 406592    | SM14M1TK6    | 2-2,5 mm²   | 3000 |
| 406058.03 | RM16M23K     | 0,52-1,5mm² | 50   |
| 406058.01 | SM16M11S18   | 0,8-1,5mm²  | 3000 |

| Cod.      | Souriau ref. | # / Note    |      |
|-----------|--------------|-------------|------|
| 406103    | UTG61412SN   | 12          | 1    |
| 406194    | UTG61619SN   | 19          | 1    |
| 406411    | UTG61823SN   | 23          | 1    |
| 406161    | UTG62028SN   | 28          | 1    |
| 406413    | UTG62448SN   | 48          | 1    |
| 406134    | UTG0128S     | 8           | 1    |
| 406407    | UTG01412S    | 12          | 1    |
| 406289    | UTG01619S    | 19          | 1    |
| 406470    | UTG01823SH   | 23          | 1    |
| 406476    | UTG11823SH   | 23          | 1    |
| 406170    | UTG02028S    | 28          | 1    |
| 406402    | UTG02235S    | 35          | 1    |
| 406408    | UTG02448S    | 48          | 1    |
| 406151    | UTP12DCG     | 8           | 1    |
| 406313    | UTP14DCG     | 12          | 1    |
| 406257    | UTP16DCG     | 19          | 1    |
| 406259    | UTP20DCG     | 28          | 1    |
| BL-406047 | SC16M11TK6   | 0,8-1,5 mm² | 100  |
| 406047    | SC16M11TK6   | 0,8-1,5 mm² | 3000 |
| BL-406590 | SC14M1TK6    | 2,0-2,5 mm² | 100  |
| 406590    | SC14M1TK6    | 2,0-2,5 mm² | 3000 |
| 406589.01 | SC20M1S31    | 0,35-0,5mm² | 3000 |
| 406047.03 | RC16M23K     | 0,52-1,5mm² | 50   |
| 406647    | RC18W3K      | 0,5-1 mm²   | 50   |
| 406047.01 | SC16M11S18   | 0,8-1,5 mm² | 3000 |

## Connettori Soriau® serie UTS

Connettori in robusto materiale termoplastico con ghiera di serraggio in metallo. Utilizza gli stessi contatti della serie UTG (cod. 406058 e 406047).

- IP68, IP69K quando accoppiati;
- range di funzionamento da -40°C a +105°C ;
- corrente massima supportata 13A;

## Soriau® UTS series connectors

Robust thermoplastic connector with metal clamping nut. Same contacts as UTG series (406058 and 406047).

- IP68 protection, IP69K when coupled;
- operating range from -40°C to 105°C;
- 13A maximum current;



| Cod.   | Soriau ref. | Note                             | #  |   |
|--------|-------------|----------------------------------|----|---|
| 406449 | UTS1JC1412S | Free connector, female contacts  | 12 | 1 |
| 406457 | UTS6JC1412S | Free connector, female contacts  | 12 | 1 |
| 406397 | UTS6JC1412P | Free connector, male contacts    | 12 | 1 |
| 406456 | UTS1JC1412P | Free connector, male contacts    | 12 | 1 |
| 406395 | UTS71412S   | Fixed connector, female contacts | 12 | 1 |
| 406398 | UTS614DCG   | Cap for plug                     | -  | 1 |
| 406419 | UTS6GN147S  | Free connector, female contacts  | 7  | 1 |
| 406444 | UTS6JC147P  | Free connector, male contacts    | 7  | 1 |
| 406489 | UTS6JC147S  | Free connector, female contacts  | 7  | 1 |
| 406452 | UTS7147S    | Fixed connector, female contacts | 7  | 1 |
| 406451 | UTS7147P    | Fixed connector, male contacts   | 7  | 1 |
| 406396 | UTS14DCG    | Cap for socket                   | -  | 1 |
| 406467 | UTS1JC1419P | Free connector, male contacts    | 19 | 1 |
| 406468 | UTS6JC1419S | Free connector, female contacts  | 19 | 1 |

## Connettori ITT® serie Neptune

Disponibili in 3 modelli : 24 poli (4 potenza/20 segnale), 31 poli (12 potenza/19 segnale) e 48 poli (48 segnale). Contatti in ottone nickelato e connettore in robusto materiale termoplastico caricato vetro con aggancio a scatto, accoppiamenti in metallo

- gamma di funzionamento da -55°C a +105°C
- grado di protezione IP67
- corrente massima supportata 30A
- due tipi di serracavo disponibili

## ITT® Neptune series connectors

Available in 24 pins (4 power / 20 signal), 31 pins (12 power / 19 signal) and 48 pins (48 signal). Nickel-plated brass contacts, robust glass-filled thermoplastic connector with snap-on connection, metal couplings;

- operating range from -55°C to 105°C;
- IP67 protection;
- 30A maximum current;
- 2 cable clamps available.

|  |    |                                                                                         |                                                                                           |                                                                                   |   |  |              |    |                                                                                         |                                                                                           |                                                                                    |  |        |              |    |                                                                                           |                                                                                             |                                                                                     |
|----------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|--------------|----|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|--------------|----|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cod.                                                                             | #  | <br>mm | <br>(mm) |  |   | Cod.                                                                              | Souriau ref. | #  | <br>mm | <br>(mm) |  |                                                                                     | Cod.   | Souriau ref. | #  | <br>mm | <br>(mm) |  |
| 406104.03                                                                        | 12 | 54                                                                                      | PG 13,5                                                                                   | 6÷12                                                                              | 1 | 406080.01                                                                         | UTG12ST      | 8  | 60                                                                                      | PG 11                                                                                     | 5÷10                                                                               | 1                                                                                   | 406080 | UTG12AC      | 8  | 40                                                                                        | 12,5                                                                                        | 1                                                                                   |
| 406194.03                                                                        | 19 | 63                                                                                      | M 25x1,5                                                                                  | 11÷17                                                                             | 1 | 406104.01                                                                         | UTG14ST      | 12 | 65                                                                                      | PG 13,5                                                                                   | 6÷12                                                                               | 1                                                                                   | 406104 | UTG14AC      | 12 | 46                                                                                        | 14                                                                                          | 1                                                                                   |
| 406078.03                                                                        | 28 | 70                                                                                      | PG 21                                                                                     | 13÷18                                                                             | 1 | 406194.01                                                                         | UTG16ST      | 19 | 72                                                                                      | PG 16                                                                                     | 10÷14                                                                              | 1                                                                                   | 406195 | UTG16AC      | 19 | 46                                                                                        | 16,5                                                                                        | 1                                                                                   |
|                                                                                  |    |                                                                                         |                                                                                           |                                                                                   |   | 406078.01                                                                         | UTG20ST      | 28 | 85                                                                                      | PG 21                                                                                     | 13÷18                                                                              | 1                                                                                   | 406357 | UTG18AC      | 23 | 50                                                                                        | 19                                                                                          | 1                                                                                   |
|                                                                                  |    |                                                                                         |                                                                                           |                                                                                   |   |                                                                                   |              |    |                                                                                         |                                                                                           |                                                                                    |                                                                                     | 406078 | UTG20AC      | 28 | 55                                                                                        | 21                                                                                          | 1                                                                                   |

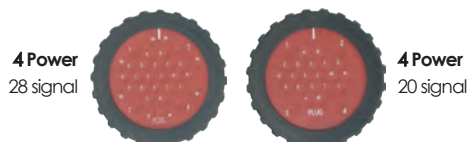


| Cod.   | ITT ref.    | #P | #s |   |
|--------|-------------|----|----|---|
| 406252 | 192990-9250 | 12 | 19 | 1 |
| 406251 | 192900-0537 | 4  | 20 | 1 |

| Cod.      | ITT ref.    | Section (mm²) |      |
|-----------|-------------|---------------|------|
| 406563    | 121668-0000 | 0,5-1         | 100  |
|           |             | 0,5-1         | 3000 |
| 406565    | 121668-0001 | 1,5-2,5       | 100  |
|           |             | 1,5-2,5       | 3000 |
| BL-406567 | 121668-0002 | 2,5-4         | 100  |
| 406567    | 121668-0002 | 2,5-4         | 3000 |



| Cod.      | ITT/Burndy ref. | Note     |      |
|-----------|-----------------|----------|------|
| BL-406058 | 192990-2490     | Standard | 100  |
| 406058    | 192990-2490     | Standard | 3000 |
| 406058.01 | 192990-2630     | Gold     | 100  |
|           |                 | Gold     | 3000 |
| 406058.02 | 192990-0000     | HCM      | 100  |
|           |                 | HCM      | 3000 |
| 406058.03 | RM16M23K        | crimp    | 50   |



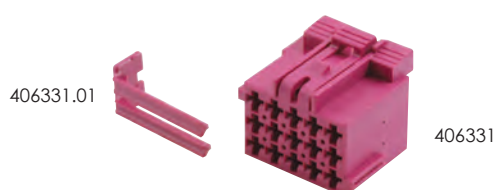
| Cod.   | ITT ref.    | #P | #s |   |
|--------|-------------|----|----|---|
| 406253 | 192990-9240 | 12 | 19 | 1 |
| 406250 | 192900-0032 | 4  | 20 | 1 |
| 406241 | 192900-0469 | 0  | 48 | 1 |

| Cod.      | ITT ref.    | Section (mm²) |      |
|-----------|-------------|---------------|------|
| 406564    | 121668-0100 | 0,5-1         | 100  |
|           |             | 0,5-1         | 3000 |
| 406566    | 121668-0101 | 1,5-2,5       | 100  |
|           |             | 1,5-2,5       | 3000 |
| BL-406568 | 121668-0102 | 2,5-4         | 100  |
| 406568    | 121668-0102 | 2,5-4         | 3000 |

| Cod.      | ITT ref.    | Note     |      |
|-----------|-------------|----------|------|
| BL-406047 | 192990-2530 | Standard | 100  |
| 406047    | 192990-2530 | Standard | 3000 |
| 406047.01 | 192990-2670 | Gold     | 100  |
|           |             | Gold     | 3000 |
| 406047.02 | 192990-0001 | HCM      | 100  |
|           |             | HCM      | 3000 |

## Connettori Tyco® serie JPT

## Tyco® JPT series connectors



| Cod.      | Tyco ref.  | # / Section   |      |
|-----------|------------|---------------|------|
| 406331    | 1-967623-1 | 15            | 1    |
| 406331.01 | 967633-1   | -             | 1    |
| 406593    | 927771-3   | 0,5 - 1,5 mm² | 4000 |

## ■ ■ Connettori Tyco® serie Ampseal

- tensione di esercizio 250V AC
- corrente continua massima 17A
- temperatura di esercizio -40 °C a +105 °C
- certificazioni UL 94V-0



406350

Gold Series

## ■ ■ Tyco® Ampseal series connectors

- 250V AC operating voltage
- 17A maximum current
- operating range from -40°C to 105°C
- UL 94V-0 certified

| Cod.      | Tyco ref. | # / Section    |  |
|-----------|-----------|----------------|-------------------------------------------------------------------------------------|
| 406350-BL | 776164-5  | 35             | 1                                                                                   |
| 406350    | 776164-1  | 35             | 1                                                                                   |
| 406437    | 770680-1  | 23             | 1                                                                                   |
| 406597    | 770854-3  | 0,5 - 1,25 mm² | 100                                                                                 |

## ■ ■ Connettori Tyco® serie Junior Power Timer

- tensione di esercizio 12-24V DC
- corrente continua massima 24A
- temperatura di esercizio -30 °C a +125 °C



406454



406626



406626-W

## ■ ■ Tyco® Junior Power Timer series connectors

- 12-24V DC operating voltage
- 24A maximum current
- operating range from -30 °C to 125 °C

| Cod.     | Description      | Tyco ref.  | # / Section |       |
|----------|------------------|------------|-------------|------------------------------------------------------------------------------------------|
| 406454   | Conn. 2 Pins P/F | 282189-1   | 2           | 1                                                                                        |
| 406482   | Conn. 4 Pins P/F | 2-967059-1 | 4           | 1                                                                                        |
| 406627   | Faston. Fem.     | 929939-3   | 0,5 - 1 mm² | 3750  |
| 406626   | Blue rubber cap  | 828904-1   | øe 2,1mm    | 100                                                                                      |
| 406626-W | White rubber cap | 828905-1   | øe 3mm      | 100                                                                                      |

## ■ ■ Connettori di potenza Tyco® /Anderson Power®

Connettore bipolare di potenza Tyco.

- tensione di esercizio 600 V
- corrente continua massima 50 A
- certificazione UL 94V-0



406279-R



406279



406279.01



406478



406478.02



406480.01



406479

## ■ ■ Power connectors Tyco® /Anderson Power®

Bipolar power connector.

- 600V maximum voltage
- 50A maximum current
- UL 94-VO certified

| Cod.                            | Ref. Anderson | Color                                                                                 | V max (V) | AMP | # / Note     |  |
|---------------------------------|---------------|---------------------------------------------------------------------------------------|-----------|-----|--------------|---------------------------------------------------------------------------------------|
| 406279                          | 647845-4      |  | 36        | 50  | 2            | 10                                                                                    |
| 406279-R                        | 647845-3      |  | 24        | 50  | 2            | 10                                                                                    |
| 406279.01                       | 5915          | -                                                                                     |           |     | up to 6 mm²  | 10                                                                                    |
| 406279.02                       | 5900          | -                                                                                     |           |     | up to 13 mm² | 10                                                                                    |
| 406488                          | 6802G3        |  | 600       | 120 | 2            | 10                                                                                    |
| (Kit connettore più 2 contatti) |               |                                                                                       |           |     |              |                                                                                       |
| 406478                          | 940           |  | 600       | 175 | 2            | 10                                                                                    |
| 406478.01                       | 1348          | -                                                                                     |           |     | up to 13 mm² | 10                                                                                    |
| 406478.02                       | 1382          | -                                                                                     |           |     | up to 50 mm² | 10                                                                                    |

| Cod.      | Ref. Anderson | Color                                                                                 | AMP             | # / Note |  |
|-----------|---------------|---------------------------------------------------------------------------------------|-----------------|----------|---------------------------------------------------------------------------------------|
| 406480.01 |               |  | 50              | 2        | 10                                                                                    |
| 406498    | SB50-HDL-RED  |  | HANDLE KIT 50A  |          |                                                                                       |
| 406480    | 134G2         |  | 175             | 2        | 10                                                                                    |
| 406479    | 995G3         |  | HANDLE KIT 175A |          | 10                                                                                    |



## Connettori di potenza - Buccaneer

IP68

Connettori di potenza, grado di protezione IP68, adatto per esterno.

- tensione di esercizio 250V
- corrente massima 6A
- materiale corpo nylon caricato vetro UL 94-V0
- tipo di cavo 6:8mm



## Power connectors - Buccaneer

IP68

Power connectors suitable for outdoor use, IP68.

- 250V maximum voltage
- 6A maximum current
- glass-filled nylon body UL 94-V0
- cable type 6:8 mm

| Cod.      | Description | Ref.     | Pins |    |
|-----------|-------------|----------|------|----|
| 400629    | Plug        | PX0748-P | 4    | 10 |
| 400629.01 | Plug cap    | PX0734   | CAP  | 10 |

## Connettori Tyco® Superseal

IP67

Contatti in ottone stagnato per fili diametro AWG 22-16 (0,3 - 1,5 mm²).

- connettore in nylon 66 caricato vetro;
- guarnizioni e passacavo in silicone IP67
- range di funzionamento da -40°C a +125°C ;
- resistenti a ozono, sali, gasolio, benzina, liquido freni, antigelo, lubrificanti.
- corrente massima 14A con cavo AWG16.

## Tyco® Superseal connectors

IP67

Tin-plated brass contacts for wires 0,3 - 1,5 mm² (AWG22-16).

- glass-filled nylon 66;
- IP67 silicon seals and cable grip
- operating range from -40°C to 125°C ;
- protection against ozone, minerals, diesel, petrol, brake fluid, antifreeze, lubricants
- 14A maximum current with AWG16 cable.



| Cod.         | Tyco ref.   | # | Section (mm²) |      |
|--------------|-------------|---|---------------|------|
| 406204       | 282104/1    | 2 | -             | 50   |
| 406240       | 282105/1    | 3 | -             | 50   |
| 406218       | 282106/1    | 4 | -             | 50   |
| 406334       | 282107/1    | 5 | -             | 50   |
| 406335       | 282108/1    | 6 | -             | 50   |
| BL-406552    | 282109/1    |   | AWG 20-16     | 100  |
| 406552       | 282109/1    |   | AWG 20-16     | 4000 |
| BL-406552.01 | 282404/1/4K |   | AWG 22-20     | 100  |
| 406552.01    | 282404/1/4K |   | AWG 22-20     | 4000 |



| Cod.      | Tyco ref. | Material | Ø (mm) | #   |    |
|-----------|-----------|----------|--------|-----|----|
| 406205    | 75553     |          | 4      | 2   | 50 |
| 406238    | 76319     |          | 4      | 3   | 50 |
| 406238.01 |           | NBR      | 6      | 3   | 50 |
| 406222    | 75554     |          | 6      | 4   | 50 |
| 406336    | 75555     |          | 6      | 5/6 | 50 |
| 406336.01 |           | EPDM     | 6      | 5/6 | 50 |



| Cod.         | Tyco ref.   | #  | Section (mm²) |      |
|--------------|-------------|----|---------------|------|
| 406249       | 282080/1    | 2  | -             | 50   |
| 406237       | 282087/1    | 3  | -             | 50   |
| 406219       | 282088/1    | 4  | -             | 50   |
| 406332       | 282089/1    | 5  | -             | 50   |
| 406333       | 282090/1    | 6  | -             | 50   |
| 406384       | 3-1437290-7 | 26 | -             | 10   |
| 406220-R     | 281934/3    |    | 2,8 ÷ 3,3     | 1000 |
| 406220       | 281934/2    |    | 1,5 ÷ 2,5     | 1000 |
| 406220-G     | 281934/4    |    | 0,5 ÷ 1,5     | 1000 |
| 406221       | 282081/1    |    | closed cap    | 1000 |
| BL-406551    | 282110/1    |    | AWG 20-16     | 100  |
| 406551       | 282110/1    |    | AWG 20-16     | 4000 |
| BL-406551.01 | 282403/1/4K |    | AWG 22-20     | 100  |
| 406551.01    | 282403/1/4K |    | AWG 22-20     | 4000 |

## Connettori Weather-Pack®

IP67

Puntalini in ottone per fili con diametro AWG 14-18 (0,8 - 2 mm²).

- connettore in poliammide 6.6;
- isolamento IP67;
- corrente massima supportata 13A.

## Weather-Pack® connectors

IP67

Brass ferrules for wires 0,8 - 2 mm² (AWG14-18).

- 6.6 polyamide connector;
- IP67 insulation;
- 13A maximum current.



| Cod.      | P.E. ref. | #            |      |
|-----------|-----------|--------------|------|
| 406226    | 12010973  | 2            | 50   |
| 406392    | 12010717  | 3            | 50   |
| 406646    | 12015024  | 4            | 50   |
| 406228    | 15324980  | De 2,8-3,5   | 100  |
| 406256    | 15324982  | De 2,03-2,85 | 100  |
| BL-406553 | 15344719  | 1,5-2,5 mm²  | 100  |
| 406553    | 15344719  |              | 3200 |



| Cod.      | P.E. ref. | #            |      |
|-----------|-----------|--------------|------|
| 406227    | 12015792  | 2            | 50   |
| 406391    | 12015793  | 3            | 50   |
| 406228    | 15324980  | De 2,8-3,5   | 100  |
| 406256    | 15324982  | De 2,03-2,85 | 100  |
| BL-406554 | 15344717  | 1,5-2,5 mm²  | 100  |
| 406554    | 15344717  |              | 3500 |

## Connettori Metri-Pack® serie 150/280 IP67

Disponibili nella versione a 2 contatti. Puntalini in ottone per fili con diametro AWG 14-18 (0,8 - 2mm²).

- connettore in poliammide 6.6;
- isolamento IP67;
- corrente massima supportata 13A.



| Cod.      | P.E. ref. | Serie | #            |      |
|-----------|-----------|-------|--------------|------|
| 406255    | 12330587  | 280   | 2            | 50   |
| 406474    | 12162185  | 150   | 3            | 50   |
| 406255.01 | 400667    | 280   | 2            | 50   |
| 406271.01 | 620724    | 280   | 4            | 50   |
| 406228    | 15324980  | 280   | De 2,8-3,5   | 100  |
| 406256    | 15324982  | 280   | De 2,03-2,85 | 100  |
| BL-406569 | 15363933  | 280   | 1-2,5 mm²    | 100  |
| 406569    | 15363933  | 280   | 1-2,5 mm²    | 3200 |
| BL-406653 | 12077411  | 280   | 0,5-0,8 mm²  | 100  |
| 406653    | 12077411  | 280   | 0,5-0,8 mm²  | 3200 |
| BL-406624 | 15363933  | 150   | 0,5-1 mm²    | 100  |
| 406624    | 15363934  | 150   | 0,5-1 mm²    | 4000 |
| 406474.01 | 12124075  | 150   | 0,75/1       | 3500 |

## Metri-Pack® 150/280 series connectors IP67

2-contact version

Brass ferrules for wires 0,8 - 2mm² (AWG14-18).

- 6.6 polyamide connector;
- IP67 insulation;
- 13A maximum current.



| Cod.      | P.E. ref. | Serie | #            |      |
|-----------|-----------|-------|--------------|------|
| 406385    | 413637    | 280   | 2            | 50   |
| 406271    | 620840    | 280   | 4            | 50   |
| 406255.01 | 400667    | 280   | 2            | 50   |
| 406228    | 15324980  | 280   | De 2,8-3,5   | 100  |
| 406256    | 15324982  | 280   | De 2,03-2,85 | 100  |
| BL-406571 | 413121    | 280   | 1-2,5 mm²    | 100  |
| 406571    | 413121    | 280   | 1-2,5 mm²    | 3500 |

## Connettori Fastin-Faston 6,3 mm e 4,8 mm

Disponibili in 6 modelli da 1 a 8 contatti (1, 2, 3, 4, 6, 8). Contatti in ottone stagnato da 6,3mm per fili con diametro 1 - 2,5 mm² (corrente max 15A). Disponibili anche in versione senza blocco e a bandiera con relativi copri-faston.



| Cod.      | # / Note                    |       |
|-----------|-----------------------------|-------|
| 400607    | 1                           | 100   |
| 400602    | 2                           | 100   |
| 400602.01 | 2, T-shaped                 | 100   |
| 400612    | 3                           | 100   |
| 400604    | 4                           | 100   |
| 400614    | 6                           | 100   |
| 400616    | 8                           | 100   |
| 400608    | 11                          | 100   |
| 406305    | 2                           | 100   |
| 406306    | 4                           | 100   |
| BL-406502 | 1-2,5 mm² - M 6,3 with lock | 100   |
| 406502    | 1-2,5 mm² - M 6,3 with lock | 4000  |
| 406502.01 | 0,5-1 mm² - M 6,3 with lock | 3500  |
| 400618    | Hood - faston 4,8           | 100   |
| 400613    | Hood - faston 6,3           | 100   |
| BL-406610 | F 4,8 with lock             | 100   |
| 406610    | F 4,8 with lock             | 10000 |
| BL-406518 | F 4,8 without lock          | 100   |
| 406518    | F 4,8 without lock          | 10000 |

## 6,3 mm and 4,8 mm Fastin-Faston connectors

Available from 1 to 8 contacts. 6.3 mm tinned brass contacts for wires 1 - 2,5 mm² (15A maximum current). Available in versions without block and cantilevered with related faston covers.



| Cod.      | # / Note                       |      |
|-----------|--------------------------------|------|
| 400606    | 1                              | 100  |
| 400601    | 2                              | 100  |
| 400601.01 | 2, T-shaped                    | 100  |
| 400611    | 3                              | 100  |
| 400603    | 4                              | 100  |
| 400610    | 6                              | 100  |
| 400617    | 8                              | 100  |
| 400609    | 11                             | 100  |
| 406305    | 2                              | 100  |
| 406306    | 4                              | 100  |
| BL-406501 | 1-2,5 mm² - F 6,3 with lock    | 100  |
| 406501    | 1-2,5 mm² - F 6,3 with lock    | 6500 |
| BL-406636 | 0,5-1 mm² - F 6,3 with lock    | 100  |
| 406636    | 0,5-1 mm² - F 6,3 with lock    | 7000 |
| BL-406637 | 2,5-4 mm² - F 6,3 with lock    | 100  |
| 406637    | 2,5-4 mm² - F 6,3 with lock    | 5500 |
| 406347    | F 9,5 x 1,2                    | 100  |
| 400605    | Hood - faston 6,3              | 100  |
| BL-406503 | 1-2,5 mm² - F 6,3 without lock | 100  |
| 406503    | 1-2,5 mm² - F 6,3 without lock | 6500 |
| BL-406617 | 4-6 mm² - F 6,3 without lock   | 100  |
| 406617    | 4-6 mm² - F 6,3 without lock   | 5000 |
| 400615    | Hood                           | 100  |
| BL-406544 | F 6,3 flag                     | 100  |
| 406544    | F 6,3 flag                     | 5000 |

## Connettori FCI® serie SICMA

IP67

Puntalini in lega di rame stagnato e connettore in plastica.  
 • corrente massima supportata 19A (1,5 mm²) - 35 A (2,8 mm²).  
 • isolamento IP67;

## FCI® SICMA series connectors

IP67

Tin-plated copper ferrules and plastic connectors.  
 • maximum current 19A (1,5mm²) - 35A (2,8mm²).  
 • IP67 insulation;



| Cod.      | FCI ref.                                   | #  |  |
|-----------|--------------------------------------------|----|-----------------------------------------------------------------------------------|
| 406244    | HCCMHPE24BKAF                              | 24 | 1                                                                                 |
| 406244.03 | HCCPHPE24BMA90F<br>(90° for circuit board) | 24 | 1                                                                                 |
| 406403    | 211PL249S0033                              | 24 | 1                                                                                 |
| 406244.01 | HCCMHPE24BKAFSV                            | 24 | 1                                                                                 |
| 406243.02 |                                            | 24 | 25                                                                                |
| 406243.03 |                                            | 24 | 25                                                                                |
| 406245    | DTBMHPE14BKSV                              | 14 | 1                                                                                 |
| 406381    | DTBMHPE34BK                                | 34 | 1                                                                                 |



| Cod.      | FCI ref. / Note                 | #  |  |
|-----------|---------------------------------|----|-------------------------------------------------------------------------------------|
| 406243    | 211PC249S0033                   | 24 | 1                                                                                   |
| 406243-GR | 211PC249S8033<br>(gray version) | 24 | 1                                                                                   |
| 406243.01 | 211A247020                      |    | 1                                                                                   |
| 406243.02 |                                 | 24 | 25                                                                                  |
| 406243.03 |                                 | 24 | 25                                                                                  |
| 406378    | 17261405B                       | 14 | 1                                                                                   |
| 406380    | DTBFHPE34BMSV                   | 34 | 1                                                                                   |
| 406244.02 | 210A015019                      |    | 100                                                                                 |

| Cod.      | FCI ref.    | MAX section |       |
|-----------|-------------|-------------|------------------------------------------------------------------------------------------|
| 406560    | 211CL3S2120 | 2,8 mm²     | 2500  |
| BL-406560 | 211CL3S2120 | 2,8 mm²     | 100                                                                                      |
| 406562    | 211CL2S2160 | 1,5 mm²     | 5000  |
| BL-406562 | 211CL2S2160 | 1,5 mm²     | 100                                                                                      |

| Cod.      | FCI ref.     | MAX section |       |
|-----------|--------------|-------------|--------------------------------------------------------------------------------------------|
| 406559    | 211CC3S2120  | 2,8 mm²     | 2000  |
| BL-406559 | 211CC3S2120  | 2,8 mm²     | 100                                                                                        |
| 406561    | 211CC2S2160P | 1,5 mm²     | 3600  |
| BL-406561 | 211CC2S2160P | 1,5 mm²     | 100                                                                                        |

## Connettori tipo JST® passo 3,96 mm

Disponibili da 2 a 10 contatti. Contatti in ottone stagnato per fili diametro AWG 22-18 (0,3 - 1mm²). Tensione massima 250V, corrente massima 7A;

## JST®-like connectors 3,96 mm pitch

Available from 2 to 10 contacts. Tinned brass contacts for wires 0,3 - 1mm² (AWG22-18). 250V maximum voltage, 7A maximum current.



| Cod.   | #  |  |
|--------|----|-------------------------------------------------------------------------------------|
| 406175 | 2  | 10                                                                                  |
| 406099 | 3  | 10                                                                                  |
| 406049 | 4  | 10                                                                                  |
| 406177 | 6  | 10                                                                                  |
| 406231 | 7  | 10                                                                                  |
| 406173 | 8  | 10                                                                                  |
| 406048 | 10 | 10                                                                                  |



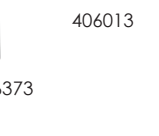
| Cod.      | #  |       |
|-----------|----|--------------------------------------------------------------------------------------------|
| 406176    | 2  | 10                                                                                         |
| 406100    | 3  | 10                                                                                         |
| 406051    | 4  | 10                                                                                         |
| 406320    | 5  | 10                                                                                         |
| 406178    | 6  | 10                                                                                         |
| 406230    | 7  | 10                                                                                         |
| 406174    | 8  | 10                                                                                         |
| 406254    | 9  | 10                                                                                         |
| 406050    | 10 | 10                                                                                         |
| BL-406514 | -  | 100                                                                                        |
| 406514    | -  | 3500  |

## ■ ■ Connettori Weidmüller® serie HD/ILME IP65

- Supporto in materiale termoplastico autoestinguente omologato UL;
- viti in ottone imperdibili, già svitate;
- contatti argentati per fili di diametro 2,5mm<sup>2</sup> (AWG18÷14);
- corrente massima 16A;
- custodie in alluminio con guarnizione, custodie mobili con leva di bloccaggio e sportello, tutte con filettatura PG.

## ■ Weidmüller® HD/ILME series connectors IP65

- UL homologated, self-extinguishing, thermos-plastic support;
- pre-unscrewed, brass safety screws;
- silver-plated contacts for wires 2,5mm<sup>2</sup> (AWG18-14);
- 16A maximum current;
- aluminium case with seal, mobile cases with blocking lever and lid, all with PG threading.

|                                                                                     | Cod.      | Weidmüller ref. | ILME ref.   |  |  | #  |  |
|-------------------------------------------------------------------------------------|-----------|-----------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|
|    | 406028    | WD16552.1       | CHO10L      | •                                                                                   |                                                                                     | 10 | 1                                                                                   |
|    | 406015    | WD16578.5       | CHO16L      | •                                                                                   |                                                                                     | 16 | 1                                                                                   |
|    | 406013    | WD16612.3       | CHO24       |                                                                                     | •                                                                                   | 24 | 1                                                                                   |
|    | 406281    | WD16623.9       | CHO24L      | •                                                                                   |                                                                                     | 24 | 1                                                                                   |
|    | 406373    |                 | CHV24L      |                                                                                     | •                                                                                   | 24 | 1                                                                                   |
|   | 406469    |                 | CHO16       |                                                                                     | •                                                                                   | 16 | 1                                                                                   |
|   | 406021    | WD16556.8       | CHP10LS     | •                                                                                   |                                                                                     | 10 | 1                                                                                   |
|  | 406014    | WD16583.2       | CHP16LS     | •                                                                                   |                                                                                     | 16 | 1                                                                                   |
|  | 406014.01 | WD12101.0       | CHP16       |                                                                                     | •                                                                                   | 16 | 1                                                                                   |
|  | 406372    |                 | CHP16       |                                                                                     | •                                                                                   | 16 | 1                                                                                   |
|  | 406012    | WD16615.1       | CHP24       |                                                                                     | •                                                                                   | 24 | 1                                                                                   |
|  | 406011    | 1901480000      | CHP24LS     | •                                                                                   |                                                                                     | 24 | 1                                                                                   |
|  | 406484    |                 | MAP 24LS240 | •                                                                                   |                                                                                     | 42 | 1                                                                                   |
|  | 406008    | WD17458.3       | CMN10       |                                                                                     |                                                                                     | 10 | 1                                                                                   |
|  | 406026    | 1745840000      | CMN16       |                                                                                     |                                                                                     | 16 | 1                                                                                   |
|  | 406024    | 1745850000      | CMN24       |                                                                                     |                                                                                     | 24 | 1                                                                                   |
|  | 406009    | WD17457.7       | CNEF10D     |                                                                                     |                                                                                     | 10 | 1                                                                                   |
|  | 406027    | 1745780000      | CNF16       |                                                                                     |                                                                                     | 16 | 1                                                                                   |
|  | 406025    | 1745790000      | CNF24       |                                                                                     |                                                                                     | 24 | 1                                                                                   |
|  | 406308    | 1665630000      | CHC24       |                                                                                     |                                                                                     | 24 | 1                                                                                   |
|  | 406485    |                 | CDSF 42     |                                                                                     |                                                                                     | 42 | 1                                                                                   |

PG 21  
Cod. 400011



## Connettori Weidmüller® serie HQ/ILME IP65

- Supporto in materiale termoplastico autoestinguente omologato UL;
- morsetti a vite per fili di diametro 1,5mm<sup>2</sup> (AWG 18-16);
- corrente massima 10A;
- custodie isolanti bianche con leva inox, grado di protezione IP65
- custodie volanti con filettatura per PG11.

## Weidmüller® HQ/ILME series connectors IP65

- UL homologated, self-extinguishing, thermos-plastic support;
- screw clips for wires 1,5mm<sup>2</sup> (AWG18-16);
- 10A maximum current
- white insulating box with stainless steel lever, IP65
- mobile box with PG11 threading.



| Cod.       | Weidmüller ref. | ILME ref. | Note                                    | #     |  |
|------------|-----------------|-----------|-----------------------------------------|-------|-------------------------------------------------------------------------------------|
| 406022     | 1652380000      | CKO3VS    | PG11 - 400013                           | 3/4   | 1                                                                                   |
| 406314     | 1788820000      |           | M20 - 400030                            | 3/4/8 | 1                                                                                   |
| 406414     |                 | CKA03C    | Cap for 406285, 406300, Aluminium, IP65 |       | 1                                                                                   |
| 406414-PLT |                 | CK03C     | Cap for 406285, 406300, PLT             |       | 1                                                                                   |
| 406285     | 1497600000      | CKO3I     | Aluminum                                | 3/4   | 1                                                                                   |
| 406416     |                 | CKAX03AX  | Cap for 406022, 406314, Aluminium       |       | 1                                                                                   |
| 406416-PLT |                 | CK03CXA   | Cap for 406022, 406314, PLT             |       | 1                                                                                   |
| 406020     | 1652460000      | CK03VG    | Aluminium                               | 3 / 4 | 1                                                                                   |
| 406020-PLT |                 | CK03VGS   | PLT                                     | 3 / 4 | 1                                                                                   |
| 406300     | 1652440000      |           | 90°                                     | 3 / 4 | 1                                                                                   |
| 406017     | 1498100000      | CKM03     |                                         | 3     | 1                                                                                   |
| 406283     | 1498300000      | CKM04     |                                         | 4     | 1                                                                                   |
| 406315     | 1650590000      |           |                                         | 8     | 1                                                                                   |
| 406016     | 1498200000      | CKF03     |                                         | 3     | 1                                                                                   |
| 406284     | 1498400000      | CKF04     |                                         | 4     | 1                                                                                   |
| 406351     | 1650600000      |           |                                         | 8     | 1                                                                                   |
| 406316     | 1651550000      |           | M Faston, max ø 1,5 mm                  | -     | 1                                                                                   |
| 406358     | 1651600000      |           | F Faston, max ø 1,5 mm                  | -     | 1                                                                                   |
| 406632     |                 | CXFA2,5   | F Faston, max ø 2,5 mm                  | -     | 1                                                                                   |

## Hirschmann®/Amphenol® serie CA IP67

Connettori industriali a 3+PE o 6+PE contatti argentati.

- tensione di esercizio 250 V DC
- corrente continua massima 10 A
- temperatura di esercizio -30°C a +90°C
- classe di protezione IP67
- certificazioni VDE, SEV, UR e CSA

## Hirschmann®/Amphenol® CA series IP67

Industrial connectors with 3+PE or 6+PE silver plated contacts.

- 250V DC voltage
- 10A maximum current
- operating range from -30°C to 90°C
- IP67 protection
- VDE, SEV, UR and CSA certified



| Cod.      | Hirschmann ref. | #          |  |
|-----------|-----------------|------------|-------------------------------------------------------------------------------------|
| 406019    | CA3LS           | 3+PE       | 1                                                                                   |
| 406276    | CA6LS           | 6+PE       | 1                                                                                   |
| 406019.01 | CA00SD1         | Cap for LS | 1                                                                                   |



| Cod.      | Hirschmann ref. | # / Note   |  |
|-----------|-----------------|------------|---------------------------------------------------------------------------------------|
| 406355    | CA3GD           | 3+PE       | 1                                                                                     |
| 406275    | CA6GD           | 6+PE       | 1                                                                                     |
| 406355.01 | CA00SD4         | Cap for GD | 1                                                                                     |
| 406018    | CA3LD           | 3+PE       | 1                                                                                     |
| 406276.01 | CA6LD           | 6+PE       | 1                                                                                     |
| 406018.01 | CA00SD3         | Cap for LD | 1                                                                                     |

## Connettori a coltello

DIN 41622

## Knife connectors

DIN 41622

Disponibile la versione a 30 contatti a saldare. Coltelli maschio e molle femmina in ottone argentato, contromolle in acciaio inox.  
 • connettore in policarbonato caricato vetro 30%;  
 • range di funzionamento da -55°C a +125°C ;  
 • tensione massima di funzionamento 350V, corrente massima 4A a 100°C, 8A a 20°C.

Available 30 contacts soldering version. Male knives and female springs in silver plated brass, stainless steel counter springs..  
 • 30% glass-filled polycarbonate connector;  
 • operating range from -55°C to 125°C ;  
 • 350V maximum voltage, maximum current 4A (100 °C) - 8A (20 °C).

| Cod.   | GEI ref. | #  |    |
|--------|----------|----|----|
| 406212 | 2130.1   | 30 | 10 |
| 406236 | CL39M    | 39 | 10 |

| Cod.   | GEI ref. | #  |    |
|--------|----------|----|----|
| 406213 | CL30F    | 30 | 10 |

| Cod.   | GEI ref. |    |
|--------|----------|----|
| 406214 | 1130.7   | 10 |
| 406215 | 1130.8   | 10 |

| Cod.   | GEI ref. |    |
|--------|----------|----|
| 406217 | 1C56     | 50 |
| 406216 | 1C51     | 50 |



| Cod.      | #  | Description                                            |   |
|-----------|----|--------------------------------------------------------|---|
| 406369    | 30 | Kit for 30 pin male GEI connector with plastic housing | 1 |
| 406369.01 |    | Sealing cover                                          | 1 |
| 406370    | 39 | Kit for 39 pin male GEI connector with plastic housing | 1 |

## Connettori circolari Binder® - Binder® circular connector



| Cod.   | Binder ref.    | Description                              |   |
|--------|----------------|------------------------------------------|---|
| 406239 |                | 3 poles circular connector               | 1 |
| 406340 | 09-0098-20-05  | 5 poles circular connector               | 1 |
| 406341 | 99-0095-100-05 | 5 poles circular connector - panel mount | 1 |

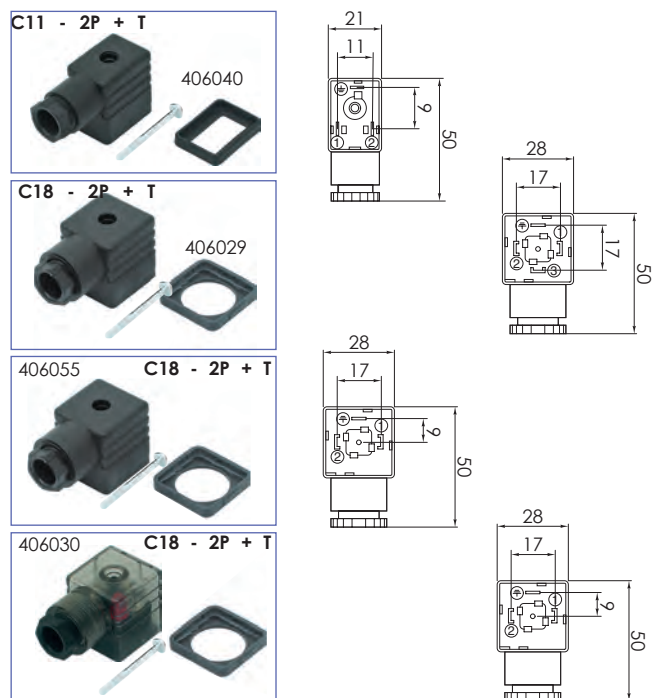
## Accessori per Connettori per Elettrovalvole - Accessories for solenoid valves connectors



| Cod.      | Type       | V      | PG | Note                                 |     |
|-----------|------------|--------|----|--------------------------------------|-----|
| 406131.01 | C11 - 2P+T | 12 VDC | 9  | Circuit board for C11 2P+T connector | 100 |
| 406131    | C18 - 2P+T | 12 VDC | 9  | Circuit board for C18 2P+T connector | 100 |
| 406040.01 |            |        |    | C11 Seal                             | 100 |
| 406029.01 |            |        |    | C18 Seal                             | 100 |
| 406029.03 |            |        |    | C18 Flat Seal                        | 100 |
| 406029.02 |            |        |    | M3x32.5 Fixing Screw - Steel Zinc.   | 100 |
| 406029.04 |            |        |    | M3x32.5 Fixing Screw - INOX A2       | 100 |
| 406029.05 |            |        |    | Cover cap C18                        | 100 |
| 406040.02 |            |        |    | Cover cap C11                        | 100 |

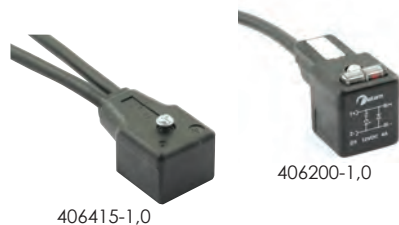
NEW

## Connettori per Elettrovalvole - DIN 43650 - Connectors for Solenoid Valves - DIN 43650

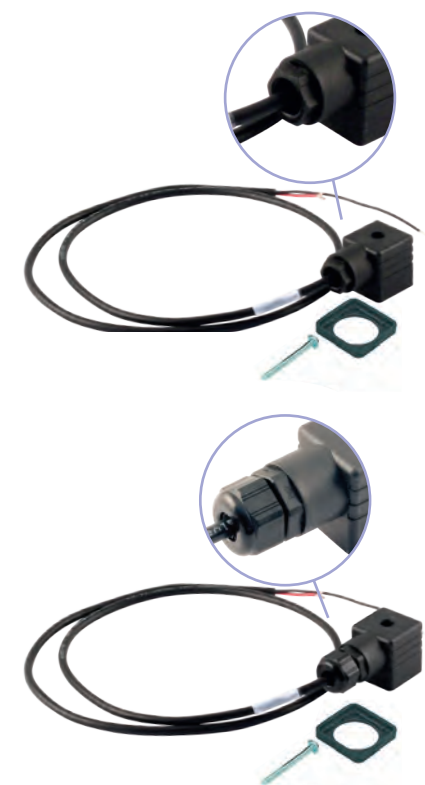


| Cod.      | Type       | V      | PG | LED                                                                                 | Diode | Connector   |  |
|-----------|------------|--------|----|-------------------------------------------------------------------------------------|-------|-------------|-------------------------------------------------------------------------------------|
| 406040    | C11 - 2P+T | 12VDC  | 9  |                                                                                     |       | √           | 100                                                                                 |
| 406029    | C18 - 2P+T | 12VDC  | 9  |                                                                                     |       | √           | 100                                                                                 |
| 406098    | C18 - 3P+T | 12VDC  | 9  |                                                                                     |       | √           | 100                                                                                 |
| 406039    | C18 - 3P+T | 230VDC | 9  |                                                                                     |       | Raddrizz.1A | 100                                                                                 |
| 406055    | C18 - 2P+T | 12VDC  | 9  |                                                                                     | √     |             | 100                                                                                 |
| 406030    | C18 - 2P+T | 12VDC  | 9  |  | √     |             | 100                                                                                 |
| 406030.01 | C18 - 2P+T | 24VDC  | 9  |  | √     |             | 100                                                                                 |

## Cavi per Elettrovalvole - Cables for Solenoid Valves



| Cod.       | Type         | L (m) | Section (mm²) | V     | LED                                                                                   | Diode | Costampato Molded |  |
|------------|--------------|-------|---------------|-------|---------------------------------------------------------------------------------------|-------|-------------------|---------------------------------------------------------------------------------------|
| 406101-1,0 | C18 - 2P + T | 1     | 2 x 0,75      |       |                                                                                       |       | √                 | 1                                                                                     |
| 406200-1,0 | C18 - 2P + T | 1     | 3 x 0,75      | 12VDC |  | √     | √                 | 1                                                                                     |
| 406415-1,0 | C18 - 2P + T | 1     | 2 x 0,75      |       |                                                                                       |       | √                 | 1                                                                                     |
| 406445-2,0 | C18 - 2P + T | 2     | 2 x 0,75      | 24VDC |  | √     | √                 | 1                                                                                     |
| 406445-5,0 | C18 - 2P + T | 5     | 2 x 0,75      | 24VDC |  | √     | √                 | 1                                                                                     |



| Cod.       | Type         | L (m) | Section (mm²) | V | LED                                                                                   | Diode | Costampato Molded |  |
|------------|--------------|-------|---------------|---|---------------------------------------------------------------------------------------|-------|-------------------|---------------------------------------------------------------------------------------|
| 406116     | C18 - 2P + T | 1     | 2 x 0,75      |   |  | √     |                   | 10                                                                                    |
| 406116-1,5 | C18 - 2P + T | 1,5   | 2 x 0,75      |   |  | √     |                   | 10                                                                                    |
| 406116-3,0 | C18 - 2P + T | 3     | 2 x 0,75      |   |  | √     |                   | 10                                                                                    |
| 406116-5,0 | C18 - 2P + T | 5     | 2 x 0,75      |   |  | √     |                   | 10                                                                                    |
| 406455     | C18 - 2P + T | 1     | 2 x 0,75      |   |                                                                                       | √     |                   | 10                                                                                    |
| 406108-0,8 | C18 - 2P + T | 0,8   | 2 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |
| 406108     | C18 - 2P + T | 1     | 2 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |
| 406108-3,0 | C18 - 2P + T | 3     | 2 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |
| 406109     | C18 - 3P + T | 1     | 3 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |
| 406109-1,3 | C18 - 3P + T | 1,3   | 3 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |
| 406317     | C11 - 2P + T | 1     | 3 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |
| 406107     | C11 - 2P + T | 1     | 2 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |
| 406107-3,0 | C11 - 2P + T | 3     | 2 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |
| 406107-8,0 | C11 - 2P + T | 8     | 2 x 0,75      |   |                                                                                       |       |                   | 10                                                                                    |

| Cod.       | Type         | L (m) | Section (mm²) | V     | LED                                                                                   | Diode | PG | Costampato Molded |  |
|------------|--------------|-------|---------------|-------|---------------------------------------------------------------------------------------|-------|----|-------------------|---------------------------------------------------------------------------------------|
| 406492-1,0 | C18 - 2P + T | 1     | 2 x 0,75      | 12VDC |  | √     | √  |                   | 1                                                                                     |
| 406493-1,0 | C18 - 2P + T | 1     | 2 x 0,75      |       |                                                                                       | √     | √  |                   |                                                                                       |
| 406494-1,0 | C11 - 2P + T | 1     | 3 x 0,75      |       |                                                                                       | √     | √  |                   |                                                                                       |
| 406495-2,0 | C11 - 2P + T | 1     | 2 x 0,75      |       |                                                                                       | √     | √  |                   |                                                                                       |

## Cavi multipolari in metratura

Isolamento e guaina esterna in PVC nero. Conformi alle norme CEI 20-29, CEI 20-11, CEI 20-22 II, CEI 20-20, IEC 332.3A. Fornibili in bobine a perdere o nelle lunghezze indicate in tabella.

## Multipole cable reels

External sleeving and insulation in black PVC. CEI 20-29, CEI 20-11, CEI 20-22 II, CEI 20-20, IEC 332.3A compliant. Available in full reels or in specified minimum lenght.

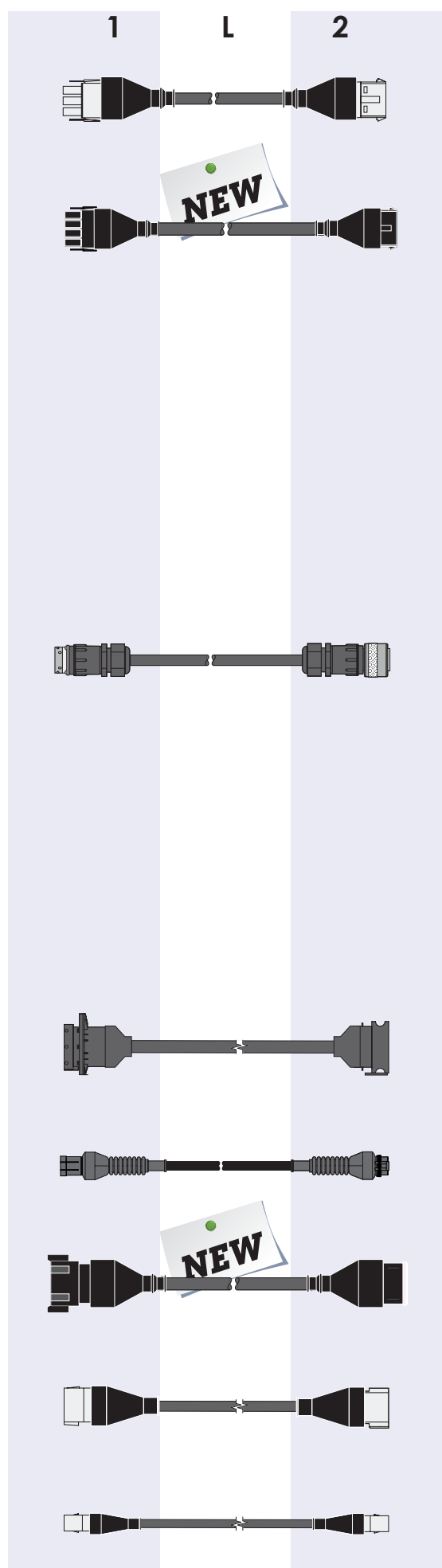


Standards: CEI 20-29 / CEI 20-11 / CEI 20-22 II / CEI 20-20 / IEC 332.3A

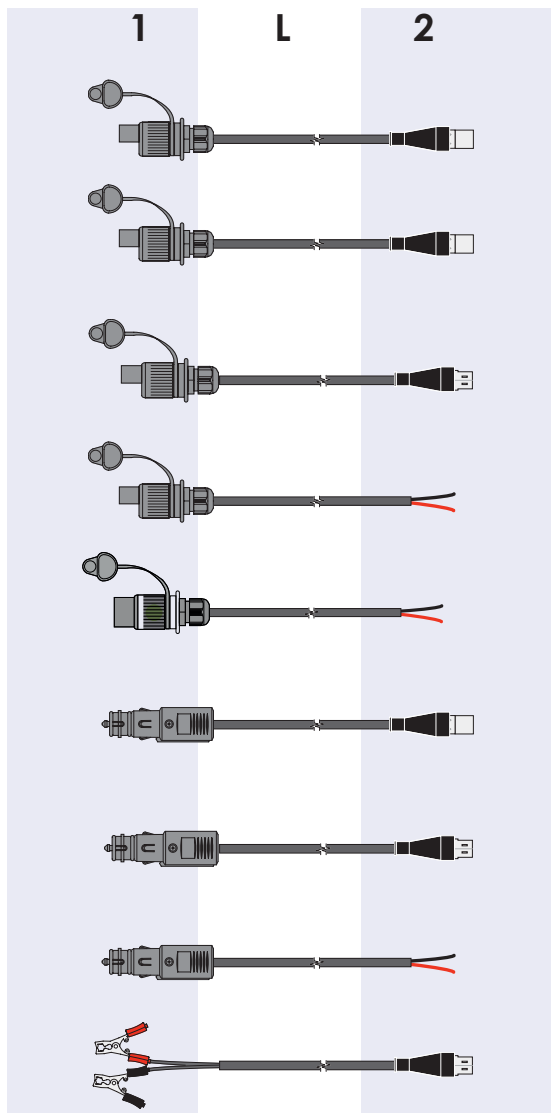
| Cod.          | #  | external ø (mm) | Conductors Type                                 | Conductors Color                                                                                                                                                                   |  (m) |
|---------------|----|-----------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 750011.00,5-R | 1  | 2,1             | 1x0,5 mm <sup>2</sup>                           |                                                                                                 | 750                                                                                     |
| 750012.00,5-R | 1  | 2,1             | 1x0,5 mm <sup>2</sup>                           |                                                                                                 | 750                                                                                     |
| 750011-01,0-R | 1  | 2,1             | 1x1 mm <sup>2</sup>                             |                                                                                                 | 750                                                                                     |
| 750012-01,0-R | 1  | 2,1             | 1x1 mm <sup>2</sup>                             |                                                                                                 | 750                                                                                     |
| 750163        | 1  | 2,4             | 1x1,5 mm <sup>2</sup>                           |                                                                                                 | 500                                                                                     |
| 750153        | 1  | 2,4             | 1x1,5 mm <sup>2</sup>                           |                                                                                                 | 500                                                                                     |
| 750151        | 1  | 3,2             | 1x2,5 mm <sup>2</sup>                           |                                                                                                 | 500                                                                                     |
| 750152        | 1  | 3,2             | 1x2,5 mm <sup>2</sup>                           |                                                                                                 | 500                                                                                     |
|               |    |                 |                                                 |                                                                                                                                                                                    |                                                                                         |
| 750201-M      | 2  | 5               | 2x0,75 mm <sup>2</sup>                          |                                                                                                 | 100                                                                                     |
| 750176-M      | 2  | 5,5             | 2x1 mm <sup>2</sup>                             |                                                                                                 | 100                                                                                     |
| 750197-M      | 2  | 6,5             | 2x1,5 mm <sup>2</sup>                           |                                                                                                 | 100                                                                                     |
| 750167-M      | 2  | 8,4             | 2x2,5 mm <sup>2</sup>                           |                                                                                                 | 100                                                                                     |
| 750179-M      | 2  | 9               | 2x4 mm <sup>2</sup>                             |                                                                                                 | 100                                                                                     |
| 750184-M      | 2  | 11              | 2x6 mm <sup>2</sup>                             |                                                                                                 | 50                                                                                      |
| 750204-M      | 3  | 5,1             | 3x0,75 mm <sup>2</sup>                          |                                                                                                 | 100                                                                                     |
| 750180-M      | 3  | 6               | 3x1 mm <sup>2</sup>                             |                                                                                                 | 100                                                                                     |
| 750215-M      | 3  | 8,4             | 3x1,5 mm <sup>2</sup>                           |                                                                                                | 100                                                                                     |
| 750196-M      | 3  | 10              | 3x2,5 mm <sup>2</sup>                           |                                                                                               | 100                                                                                     |
| 750168-M      | 4  | 7,5             | 2x2,5 mm <sup>2</sup> + 2x1 mm <sup>2</sup>     |                                                                                               | 100                                                                                     |
| 750191-M      | 4  | 7               | 4x1 mm <sup>2</sup>                             | 4 x                                                                                           | 100                                                                                     |
| 750192-M      | 8  | 9,5             | 8x1 mm <sup>2</sup>                             | 8 x                                                                                           | 50                                                                                      |
| 750193-M      | 12 | 10,5            | 12x1 mm <sup>2</sup>                            | 12 x                                                                                          | 50                                                                                      |
| 750188-M      | 12 | 12,5            | 2x2,5 mm <sup>2</sup> + 10x1 mm <sup>2</sup>    |  + 10 x  | 50                                                                                      |
| 750178-M      | 16 | 14              | 2x2,5 mm <sup>2</sup> + 14x1 mm <sup>2</sup>    |  + 14 x  | 25                                                                                      |
| 750183-M      | 16 | 12              | 16x0,75 mm <sup>2</sup>                         |  + 14 x  | 25                                                                                      |
| 750169-M      | 19 | 14,5            | 2x2,5 mm <sup>2</sup> + 17x1 mm <sup>2</sup>    |  + 17 x  | 25                                                                                      |
| 750171-M      | 24 | 16,5            | 2x2,5 mm <sup>2</sup> + 22x1 mm <sup>2</sup>    |  + 22 x  | 25                                                                                      |
| 750217-M      | 28 | 17              | 2x2,5 mm <sup>2</sup> + 26x1 mm <sup>2</sup>    |  + 26 x  | 25                                                                                      |
| 750185-M      | 37 | 19              | 2x2,5 mm <sup>2</sup> + 35x1 mm <sup>2</sup>    |  + 35 x 1 2 3 4...                                                                            | 25                                                                                      |
|               |    |                 |                                                 |                                                                                                                                                                                    |    |
| 750201        | 2  | 5               | 2x0,75 mm <sup>2</sup>                          |                                                                                               | 5000                                                                                    |
| 750176        | 2  | 5,5             | 2x1 mm <sup>2</sup>                             |                                                                                               | 5000                                                                                    |
| 750197        | 2  | 6,5             | 2x1,5 mm <sup>2</sup>                           |                                                                                               | 2500                                                                                    |
| 750167        | 2  | 8,4             | 2x2,5 mm <sup>2</sup>                           |                                                                                               | 2000                                                                                    |
| 750179        | 2  | 9               | 2x4 mm <sup>2</sup>                             |                                                                                               | 1000                                                                                    |
| 750184        | 2  | 11              | 2x6 mm <sup>2</sup>                             |                                                                                               | 1000                                                                                    |
| 750204        | 3  | 5,1             | 3x0,75 mm <sup>2</sup>                          |                                                                                               | 3000                                                                                    |
| 750180        | 3  | 6               | 3x1 mm <sup>2</sup>                             |                                                                                               | 2500                                                                                    |
| 750215        | 3  | 8,4             | 3x1,5 mm <sup>2</sup>                           |                                                                                               | 2000                                                                                    |
| 750196        | 3  | 10              | 3x2,5 mm <sup>2</sup>                           |                                                                                               | 2000                                                                                    |
| 750168        | 4  | 7,5             | 2x2,5 mm <sup>2</sup> + 2x1 mm <sup>2</sup>     |                                                                                               | 2000                                                                                    |
| 750191        | 4  | 7               | 4x1 mm <sup>2</sup>                             | 4 x                                                                                           | 2000                                                                                    |
| 750234        | 7  | 11              | 7x1,5 mm <sup>2</sup>                           | 7 x                                                                                           | 1000                                                                                    |
| 750192        | 8  | 9,5             | 8x1 mm <sup>2</sup>                             | 8 x                                                                                           | 1000                                                                                    |
| 750193        | 12 | 10,5            | 12x1 mm <sup>2</sup>                            | 12 x                                                                                          | 1000                                                                                    |
| 750188        | 12 | 12,5            | 2x2,5 mm <sup>2</sup> + 10x1 mm <sup>2</sup>    |  + 10 x  | 750                                                                                     |
| 750178        | 16 | 14              | 2x2,5 mm <sup>2</sup> + 14x1 mm <sup>2</sup>    |  + 14 x  | 500                                                                                     |
| 750183        | 16 | 12              | 16x0,75 mm <sup>2</sup>                         |  + 14 x  | 1000                                                                                    |
| 750169        | 19 | 14,5            | 2x2,5 mm <sup>2</sup> + 17x1 mm <sup>2</sup>    |  + 17 x  | 500                                                                                     |
| 750240        | 22 | 16              | 1x2,5 mm <sup>2</sup> + 21x0,75 mm <sup>2</sup> |  + 21 x  | 500                                                                                     |
| 750171        | 24 | 16,5            | 2x2,5 mm <sup>2</sup> + 22x1 mm <sup>2</sup>    |  + 22 x  | 500                                                                                     |
| 750217        | 28 | 17              | 2x2,5 mm <sup>2</sup> + 26x1 mm <sup>2</sup>    |  + 26 x  | 500                                                                                     |
| 750185        | 37 | 19              | 2x2,5 mm <sup>2</sup> + 35x1 mm <sup>2</sup>    |  + 35 x 1 2 3 4...                                                                            | 300                                                                                     |



 Prolunghe -  Extensions cables



| Cod.              | 1                 | L (m) | 2                 | Wires Sect. (mm²) |  |
|-------------------|-------------------|-------|-------------------|-------------------|-------------------------------------------------------------------------------------|
| <b>919048-3,0</b> | mate-n-lok 6M     | 3     | mate-n-lok 6F     | 8x1               | 1                                                                                   |
| <b>919049-3,0</b> | mate-n-lok 12M    | 3     | mate-n-lok 12F    | 12x1              | 1                                                                                   |
| <b>919049-5,0</b> | mate-n-lok 12M    | 5     | mate-n-lok 12F    | 12x1              | 1                                                                                   |
| <b>919049-7,0</b> | mate-n-lok 12M    | 7     | mate-n-lok 12F    | 12x1              | 1                                                                                   |
| <b>919049-9,0</b> | mate-n-lok 12M    | 9     | mate-n-lok 12F    | 12x1              | 1                                                                                   |
| <b>919095-3,0</b> | mate-n-lok 15M    | 3     | mate-n-lok 15F    | 14x1 + 2x2,5      | 1                                                                                   |
| <b>919101-1,2</b> | Burndy 8          | 1,2   | Burndy 8          | 8x1               | 1                                                                                   |
| <b>919101-3,0</b> | Burndy 8          | 3     | Burndy 8          | 8x1               | 1                                                                                   |
| <b>919101-4,0</b> | Burndy 8          | 4     | Burndy 8          | 8x1               | 1                                                                                   |
| <b>919102-1,0</b> | Burndy UTG 12M    | 1     | Burndy UTG 12F    | 10x1 + 2x2,5      | 1                                                                                   |
| <b>919102-3,0</b> | Burndy UTG 12M    | 3     | Burndy UTG 12F    | 10x1 + 2x2,5      | 1                                                                                   |
| <b>919102-5,0</b> | Burndy UTG 12M    | 5     | Burndy UTG 12F    | 10x1 + 2x2,5      | 1                                                                                   |
| <b>770191</b>     | Burndy UTG 12F    | 5     | Burndy UTG 12F    | 10x1 + 2x2,5      | 1                                                                                   |
| <b>919090-1,0</b> | Burndy 19 f.m.    | 1     | Burndy 19 f.f.    | 17x1 + 2x2,5      | 1                                                                                   |
| <b>919090-3,0</b> | Burndy 19 f.m.    | 3     | Burndy 19 f.f.    | 17x1 + 2x2,5      | 1                                                                                   |
| <b>919090-4,0</b> | Burndy 19 f.m.    | 4     | Burndy 19 f.f.    | 17x1 + 2x2,5      | 1                                                                                   |
| <b>919113-1,5</b> | Burndy 19 f.f.    | 1,5   | Burndy 19 f.m.    | 17x1 + 2x2,5      | 1                                                                                   |
| <b>919114-3,0</b> | Burndy 23 f.f.    | 3     | Burndy 19 f.m.    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919039-0,6</b> | Burndy UTG 28M    | 0,6   | Burndy UTG 28F    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919039-2,0</b> | Burndy UTG 28M    | 2     | Burndy UTG 28F    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919039-4,0</b> | Burndy UTG 28M    | 4     | Burndy UTG 28F    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919039-7,0</b> | Burndy UTG 28M    | 7     | Burndy UTG 28F    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919039-10</b>  | Burndy UTG 28M    | 10    | Burndy UTG 28F    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919040-2,0</b> | Burndy UTG 28F    | 2     | Burndy UTG 28M    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919040-3,0</b> | Burndy UTG 28F    | 3     | Burndy UTG 28M    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919040-5,0</b> | Burndy UTG 28F    | 5     | Burndy UTG 28M    | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919077-1,0</b> | FCI Sicma 24M     | 1     | FCI Sicma 24F     | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919077-3,0</b> | FCI Sicma 24M     | 3     | FCI Sicma 24F     | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919077-5,0</b> | FCI Sicma 24M     | 5     | FCI Sicma 24F     | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919077-9,0</b> | FCI Sicma 24M     | 9     | FCI Sicma 24F     | 22x1 + 2x2,5      | 1                                                                                   |
| <b>919115-3,0</b> | Super Seal 3 f.m. | 3     | Super Seal 3 f.f. | 3x0,75            | 1                                                                                   |
| <b>919115-5,0</b> | Super Seal 3 f.m. | 5     | Super Seal 3 f.f. | 3x0,75            | 1                                                                                   |
| <b>919118-5,0</b> | ITT 24 f.m.       | 5     | ITT 24 f.f.       | 21x0,75 + 1x2,5   | 1                                                                                   |
| <b>191118-7,0</b> | ITT 24 f.m.       | 7     | ITT 24 f.f.       | 21x0,75 + 1x2,5   | 1                                                                                   |
| <b>191118-9,0</b> | ITT 24 f.m.       | 9     | ITT 24 f.f.       | 21x0,75 + 1x2,5   | 1                                                                                   |
| <b>901523</b>     | faston M 6,3mm    | 3     | faston F 6,3mm    | 2x1 + 2x2,5       | 1                                                                                   |
| <b>901512</b>     | faston M 6,3mm    | 5     | faston F 6,3mm    | 2x1 + 2x2,5       | 1                                                                                   |
| <b>901512.01</b>  | faston M 6,3mm    | 6     | faston F 6,3mm    | 2x1 + 2x2,5       | 1                                                                                   |
| <b>901513</b>     | faston M 6,3mm    | 7     | faston F 6,3mm    | 2x1 + 2x2,5       | 1                                                                                   |
| <b>905774-05</b>  | faston F 6,3mm    | 5     | faston F 6,3mm    | 2x4               | 1                                                                                   |
| <b>905774-07</b>  | faston F 6,3mm    | 7     | faston F 6,3mm    | 2x2,5             | 1                                                                                   |



| Cod.       | 1                         | L (m) | 2                | Wires Sect. (mm²) |  |
|------------|---------------------------|-------|------------------|-------------------|-------------------------------------------------------------------------------------|
| 901703     | 3 poles plug 25A          | 2     | 2 faston M 6,3mm | 2 x 2,5           | 1                                                                                   |
| 901208.01  | 3 poles plug 25A          | 2     | 2 faston F 6,3mm | 2 x 2,5           | 1                                                                                   |
| 901208.03  | 3 poles plug 25A          | 2     | 3 faston F 6,3mm | 2 x 2,5           | 1                                                                                   |
| 901208     | 3 poles plug 25A          | 2     | not cabled       | 2 x 2,5           | 1                                                                                   |
| 901208.07  | 3 poles plug 25A          | 2     | not cabled       | 2 x 4             | 1                                                                                   |
| 901208.04  | 3 poles plug 25A          | 2,2   | not cabled       | 2 x 1,5           | 1                                                                                   |
| 901208.05  | 3 poles plug 25A          | 2,5   | not cabled       | 2 x 2,5           | 1                                                                                   |
| 770189     | 3 poles plug 25A          | 8     | not cabled       | 2 x 2,5           | 1                                                                                   |
| 901843-2.0 | 3 poles plug 10A+LED+FUSE | 2,0   | not cabled       | 2 x 2,5           | 1                                                                                   |
| 901843-3.0 | 3 poles plug 10A+LED+FUSE | 3,1   | not cabled       | 2 x 2,5           | 1                                                                                   |
| 919032-2.0 | lighter plug              | 2     | 2 faston M 6,3mm | 2 x 1,5           | 1                                                                                   |
| 919072-2.0 | lighter plug              | 2     | 2 faston F 6,3mm | 2 x 1,5           | 1                                                                                   |
| 919033-2.0 | lighter plug              | 2     | not cabled       | 2 x 1,5           | 1                                                                                   |
| 919033-8.0 | lighter plug              | 8     | not cabled       | 2 x 1,5           | 1                                                                                   |
| 919071-2.0 | crocodile clips           | 2     | 2 faston M 6,3mm | 2 x 2,5           | 1                                                                                   |

## Guaina trecciata nera

### Black braided sleeving

Guaina trecciata in poliestere.

Infiammabilità: UL 94: HB

Temperature di esercizio: -50°C a +150°C (picchi di 170 °C)

Resistente a sali, lubrificanti, raggi UV, benzina e agenti chimici

Polyester braided sleeving.

Flammability: UL 94:HB

Operating range from -50°C to 150°C (peak 170 °C)

Salts, lubricants, UV rays, gasoline and chemicals resistant



| Cod.   | Description            | ømm | Color |  (m) |
|--------|------------------------|-----|-------|-----------------------------------------------------------------------------------------|
| 750147 | Black braided sleeving | 6   | Black | 100                                                                                     |
| 750131 | Black braided sleeving | 8   | Black | 100                                                                                     |
| 750148 | Black braided sleeving | 10  | Black | 100                                                                                     |
| 750107 | Black braided sleeving | 12  | Black | 100                                                                                     |
| 750114 | Black braided sleeving | 25  | Black | 50                                                                                      |
| 750115 | Black braided sleeving | 30  | Black | 50                                                                                      |

## Guaina in PVC

### PVC sleeving

Guaina in PVC autoestinguente.

Infiammabilità: UL 94: HB

Temperature di esercizio: -30°C a +70°C

Self-extinguishing PVC sleeving.

Flammability

Operating range from -30°C to 70°C



| Cod.   | Description        | ømm | Color |  (m) |
|--------|--------------------|-----|-------|-------------------------------------------------------------------------------------------|
| 750101 | Black PVC sleeving | 4   | Black | 1000                                                                                      |
| 750094 | Black PVC sleeving | 5   | Black | 700                                                                                       |
| 750095 | Black PVC sleeving | 6   | Black | 300                                                                                       |
| 750102 | Black PVC sleeving | 8   | Black | 300                                                                                       |
| 750090 | Black PVC sleeving | 9   | Black | 250                                                                                       |
| 750092 | Black PVC sleeving | 10  | Black | 200                                                                                       |
| 750103 | Black PVC sleeving | 12  | Black | 150                                                                                       |
| 750140 | Black PVC sleeving | 13  | Black | 125                                                                                       |
| 750135 | Black PVC sleeving | 16  | Black | 80                                                                                        |
| 750129 | Black PVC sleeving | 18  | Black | 75                                                                                        |
| 750099 | Black PVC sleeving | 22  | Black | 60                                                                                        |
| 750120 | Black PVC sleeving | 25  | Black | 50                                                                                        |

## Guaina corrugata Schlemmer® per posa mobile

### Schlemmer® corrugated sleeving

Per posa mobile, in PA6 HB

Infiammabilità: UL 94: HB

Resistente agli UV: DIN ISO 8580.

Temperature di esercizio: -40°C a +120°C

For high mechanical stresses,

PA6 HB

Flammability: UL 94:HB

UV resistance: DIN ISO 8580

Operating range from -40°C to 120°C

| Cod.   | Schlemmer reference | Model                                     | Ø int. | (m) |
|--------|---------------------|-------------------------------------------|--------|-----|
| 750122 | 1200068             | Corrugated sleeving                       | 4,5    | 100 |
| 750225 | 1200070             | Corrugated sleeving                       | 7,5    | 50  |
| 750139 | 1200089             | Corrugated sleeving                       | 8,5    | 50  |
| 750116 | 1200100             | Corrugated sleeving                       | 10     | 50  |
| 750123 | 1200127             | Corrugated sleeving                       | 12     | 50  |
| 750220 | 1200135             | Corrugated sleeving                       | 13     | 50  |
| 750149 | 1200143             | Corrugated sleeving                       | 14     | 50  |
| 750136 | 1200178             | Corrugated sleeving                       | 17     | 50  |
| 750124 | 1200232             | Corrugated sleeving                       | 23     | 50  |
| 750231 | 1200267             | Corrugated sleeving                       | 26     | 25  |
| 750226 | 1200025             | Corrugated sleeving                       | 29     | 30  |
| 750227 | 1200062             | Corrugated sleeving                       | 37     | 30  |
| 750141 | 1202102             | Inspectable Corrugated sleeving ø 10      | 10     | 50  |
| 750125 | 3805009             | Straight fitting for Sleeving ø10         | PG9    | 1   |
| 750126 |                     | Straight fitting for Sleeving ø12         | PG11   | 1   |
| 750134 |                     | 90° fitting for Sleeving ø15,8            | PG11   | 1   |
| 750132 |                     | Straight fitting for Sleeving ø21,2       | PG16   | 1   |
| 750127 | 7800045             | Straight fitting for Sleeving ø23         | PG21   | 1   |
| 750143 |                     | Pull-proof cable grip for Sleeving ø12/13 | PG11   | 1   |
| 406201 |                     | AMP CPC 37p -> Sleeving ø 21 adapter      | -      | 1   |
| 406172 |                     | Bumdi 28p -> Sleeving ø 23 adapter        | -      | 1   |

## Guaina corrugata Schlemmer® per posa fissa

### Schlemmer® corrugated sleeving

Per posa fissa, in PPmod

Infiammabilità: UL 94: V2

Resistente agli UV: DIN ISO 8580.

Temperature di esercizio: -40°C a +135°C

For fixed installation, PPmod

Flammability: UL 94:V2

UV resistance: DIN ISO 8580

Operating range from -40°C to 135°C



| Cod.     | Schlemmer reference | Model                              | Ø (mm) |     |
|----------|---------------------|------------------------------------|--------|-----|
| 750122-H | 1926700             | Corrugated conduit for fixed mount | 4,5    | 100 |
| 750233-H | 1926701             | Corrugated conduit for fixed mount | 6      | 100 |
| 750220-H | 1926706             | Corrugated conduit for fixed mount | 13     | 50  |
| 750230-H | 1926707             | Corrugated conduit for fixed mount | 14     | 50  |



## Guaina termorestringente con colla

### Heat-shrinking self-adhesive sleeving

Guaina termorestringente in poliolefina a doppia parete con colla, autoestinguente. Temperatura di restringimento 95°C.

Temperature di esercizio: -55°C a +110°C

Dual wall polyolefin self-adhesive sleeving, heat-shrinking and self-extinguishing.

Shrinking temperature: 95°C

Operating range from -55°C to 110°C



| Cod.   | Description                           | ømm | Shrinking ratio | Color | (m)                   |
|--------|---------------------------------------|-----|-----------------|-------|-----------------------|
| 750117 | Heat-shrinking self-adhesive sleeving | 3   | 3:1             |       | 150 m                 |
| 750121 | Heat-shrinking self-adhesive sleeving | 6   | 3:1             |       | 75 m                  |
| 750128 | Heat-shrinking self-adhesive sleeving | 16  | 4:1             |       | factory cut at 1,22 m |
| 750119 | Heat-shrinking self-adhesive sleeving | 24  | 4:1             |       | factory cut at 1,22 m |
| 750104 | Heat-shrinking self-adhesive sleeving | 32  | 4:1             |       | factory cut at 1,22 m |
| 750130 | Heat-shrinking self-adhesive sleeving | 40  | 4:1             |       | factory cut at 1,22 m |
| 750105 | Heat-shrinking self-adhesive sleeving | 52  | 4:1             |       | factory cut at 1,22 m |
| 750145 | Heat-shrinking self-adhesive sleeving | 63  | 3:1             |       | factory cut at 1 m    |

## Guaina termo

### Heat-shrinking sleeving

Guaina termorestringente in poliolefina, autoestinguente.

Temperatura di restringimento 100°C.

Temperature di esercizio: -55°C a +135°C

Polyolefin heat-shrinking, self-extinguishing sleeving.

Shrinking temperature: 100°C

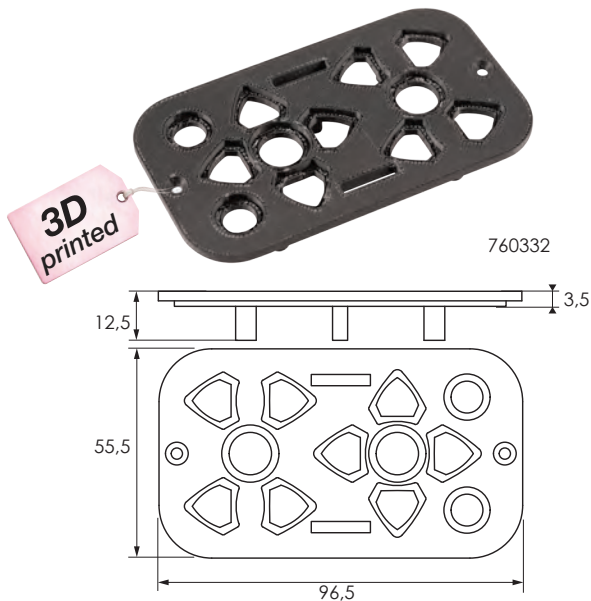
Operating range from -55°C to 135°C



| Cod.   | Description             | ømm  | Shrinking ratio | Color | (m) |
|--------|-------------------------|------|-----------------|-------|-----|
| 750216 | Heat-shrinking sleeving | 3,2  | 2:1             |       | 15m |
| 750133 | Heat-shrinking sleeving | 4,8  | 2:1             |       | 12m |
| 750113 | Heat-shrinking sleeving | 12,7 | 2:1             |       | 75m |
| 750146 | Heat-shrinking sleeving | 19   | 2:1             |       | 5m  |

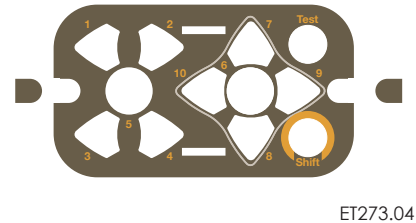
## Pannello frontale per joystick 760330

### Front panel for 760330 joystick



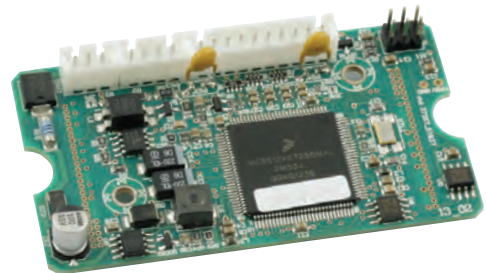
## Adesivo

### Panel sticker



ET273.04

## CPU Freescale 9S12XET256-112LQFP



405212.01

### Risorse Modulo CPU ISO/CANbus Salvarani

#### Resources of Salvarani's ISObus / CANbus CPU Module

|                 |                                                                                            |                     |
|-----------------|--------------------------------------------------------------------------------------------|---------------------|
| <b>XGATE</b>    | Controllo automatico e DMA ingressi<br>Automatic control and inputs' DMAs                  | ✓                   |
| <b>CAN ND</b>   | Periferica CAN senza physical layer driver<br>CAN peripheral without physical layer driver | 2                   |
| <b>CAN WD</b>   | Periferica CAN con physical layer driver<br>CAN peripheral with physical layer driver      | 1                   |
| <b>UART</b>     | Periferica seriale asincrona<br>Asynchronous serial peripheral                             | 4                   |
| <b>SPI</b>      | Periferica seriale sincrona<br>Synchronous serial peripheral                               | 3                   |
| <b>I2C</b>      | Periferica Inter Integrated computer<br>Inter Integrated computer peripheral               | 1                   |
| <b>ADC</b>      | Convertitore analogico -> digitale<br>Analog -> digital converter                          | 2-12 bit<br>2x8 MUX |
| <b>D_I/O</b>    | I/O digitali<br>Digital I/Os                                                               | 91                  |
| <b>PWM</b>      | Canali PWM<br>PWM channels                                                                 | 8                   |
| <b>Capture</b>  | Ingressi capture<br>Capture inputs                                                         | 6                   |
| <b>PCapture</b> | Ingressi capture con prescaler programmabile<br>Capture inputs with programmable prescaler | 2                   |
| <b>Flash</b>    | Memoria programma (non volatile)<br>Program memory (non-volatile)                          | 256 KB              |
| <b>RAM</b>      | Memoria dati (volatile)<br>Data memory (volatile)                                          | 16 KB               |
| <b>EEPROM</b>   | Memoria dati di massa (non volatile)<br>Mass data memory (non-volatile)                    | 4 KB                |
| <b>VEEPROM</b>  | Memoria dati di massa virtuale (non volatile)<br>Virtual mass data memory (non-volatile)   | 32 KB               |

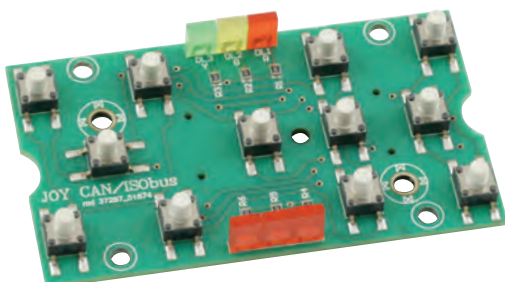
## Tastiera

12 tasti ON/OFF a matrice con 6 LED  
Connettore HE13-2,00 Polstrip



## Keyboard

12 ON/OFF matrix buttons with 6 LEDs  
HE13-2,00 Polstrip connection





## ■ Circuiti di Controllo per Motori 12V DC

Disponibili in 2 modelli:

- 405562.04, corrente massima 25A, controllo PWM (300W potenza massima).
- 405119.02, corrente massima 5A, controllo PWM.

Disponibili con cablaggio per collegamento alle schede.

405562.04  
(401567.01+405562.03)



| Cod.      | A  | V  | Micro switch | Speed Sensor | Notes           |   |
|-----------|----|----|--------------|--------------|-----------------|---|
| 405562.04 | 25 | 12 | •            |              | Max Power 300 W | 1 |

| Cod.   | Description                     | #P | L (m) |   |
|--------|---------------------------------|----|-------|---|
| 770024 | Cablag. L.200 x conn. 2 poli XH | 2  | 200   | 1 |
| 770020 | Cablag. L.150 x conn. 3 poli XH | 3  | 150   | 1 |

405119.02



| Cod.      | A | V  | Micro switch | Speed Sensor | Notes                                                        |   |
|-----------|---|----|--------------|--------------|--------------------------------------------------------------|---|
| 405119.02 | 3 | 12 |              |              | 2 x PWM<br>complete with separate 3 buttons<br>circuit board | 1 |

| Cod.             | Description                                                                                | #P       | L (m)      |   |
|------------------|--------------------------------------------------------------------------------------------|----------|------------|---|
| 770051           | Cablag. L.250 x conn. 4 poli XH                                                            | 4        | 250        | 1 |
| 770061           | Cablag. L.250 x conn. 7 poli XH                                                            | 7        | 250        | 1 |
| 770044<br>770054 | Cablag. scheda plus 12 poli multifunzionale<br>Cablag. scheda plus 12 poli multifunzionale | 12<br>12 | 200<br>350 | 1 |

401541



| Cod.   | Description                    | #P | L (m) |   |
|--------|--------------------------------|----|-------|---|
| 401541 | Potenzometro lineare 100 K/OHM |    |       | 1 |

## ■ Control circuits for 12V DC pumps

2 versions available:

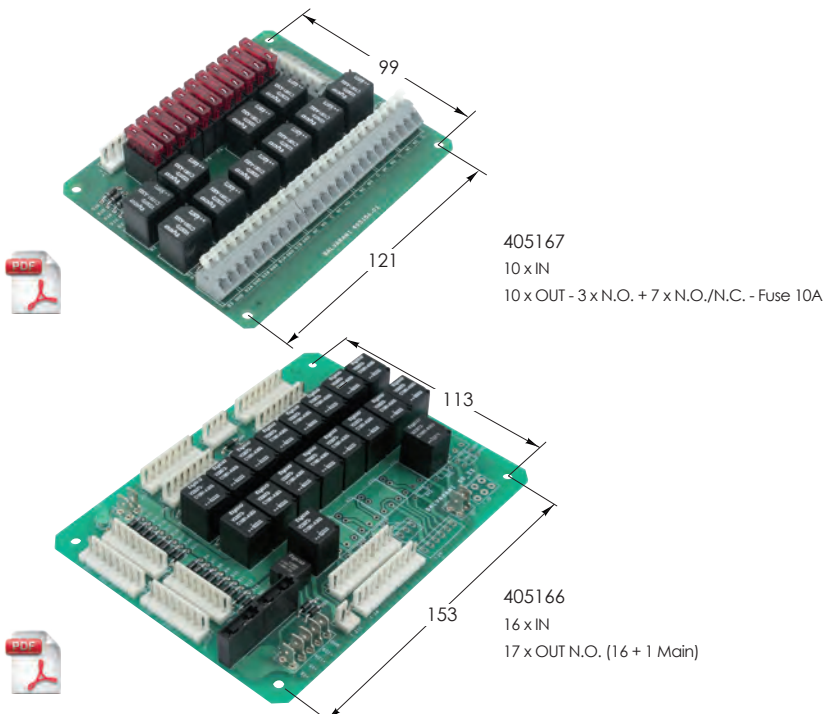
- 405562.04 25A maximum current, PWM control (300W maximum power).
- 405119.02 5A maximum current, PWM control.

Available with wiring for connection to the boards.

## Schede relè 12V DC

Disponibili in 2 versioni:

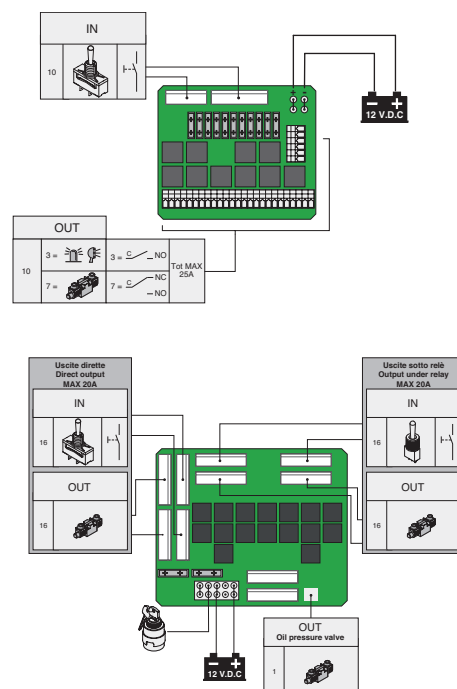
- 405167: 10 entrate e 10 uscite controllate da relè (7 con relè NO, 3 con relè NO-NC), fusibile di protezione a lama 8A.
- 405166: 16 entrate e 16 uscite controllate da relè NO. Ogni ingresso attiva l'uscita corrispondente e una valvola generale di messa a scarico. Due fusibili di protezione a lama: 15A (generale) e 10A (valvola di messa a scarico).



## 12V DC relay boards

2 versions available:

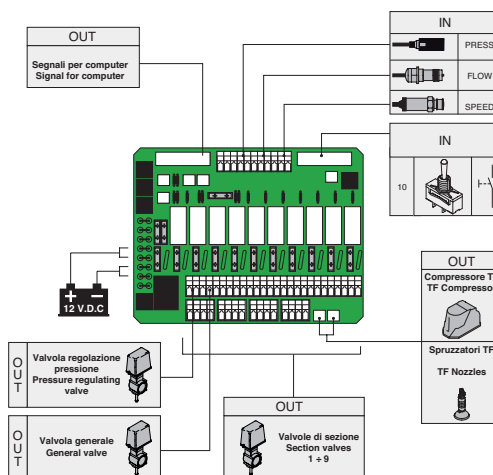
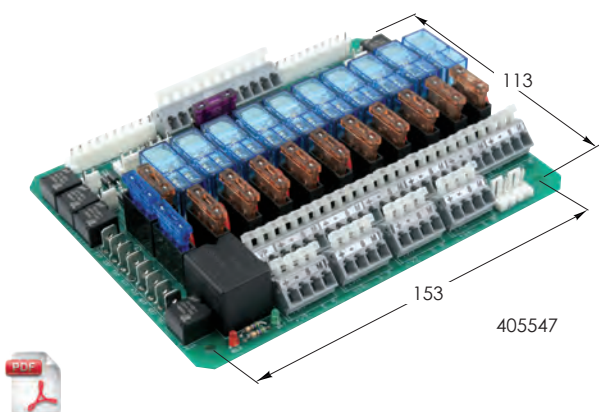
- 405167: 10 input and 10 output controlled by relay (7 with NO relay, 3 with NO-NC relay), 8A protection blade fuse.
- 405166: 16 input and 16 output controlled by NO relays. Each input activates the corresponding output and the main discharge valve. Two protection blade fuses: 15A (main) and 10A (discharge valve).



| Cod.   | Description                                | Fuses                                | Size    | In | Out | V  |   |
|--------|--------------------------------------------|--------------------------------------|---------|----|-----|----|---|
| 405167 | 10 IN / 10 OUT (3 x N.O. + 7 x N.O./N.C.)  | 11 Sections x 10A                    | 111X132 | 10 | 10  | 12 | 1 |
| 405166 | 16 IN / 17 OUT N.O. (16 sections + 1 Main) | 15A Main valve<br>5A Discharge valve | 130X170 | 32 | 33  | 12 | 1 |

- Scheda di giunzione per controllo box di comando e sistemi di irrorazione (valvole motorizzate).
- Alimentazione 12V DC
- LED di alimentazione
- Protezione contro inversione di corrente elettrica.
- Gestione di 8 segnali in ingresso e altrettante uscite
- Gestione di 3 segnali in ingresso da sensori esterni, bypassati al box di comando.

- Junction board to control a switch box and a spraying system (motorized valves).
- 12V DC
- Power supply LED
- Current inversion protection
- 8 input and 8 output signals.
- Possibility to manage 3 input signals from external sensors, bypassed to the switch box.



| Cod.   | Description                                                   | Fuses                                            | Size    | In | Out | V  |   |
|--------|---------------------------------------------------------------|--------------------------------------------------|---------|----|-----|----|---|
| 405546 | 5 motorized sections + Main valve + Pressure regulation valve | 15 A Main valve - 5 sections x 5 A - 3 A sensors | 130X170 | 13 | 14  | 12 | 1 |
| 405547 | 9 motorized sections + Main valve + Pressure regulation valve | 15 A Main valve - 9 sections x 5 A - 3 A sensors |         |    |     |    | 1 |

## Strumenti di misura

405220



## Measurement tools

405221



| Cod.   | Description       | Size  | mm    | LED | V     |   |
|--------|-------------------|-------|-------|-----|-------|---|
| 405220 | Hour meter (1/10) | 53x32 | 37x25 |     | 12    | 1 |
| 405221 | Battery indicator | 53x32 | 37x25 | √   | 12/24 | 1 |

## Cicalino

Emette un suono ad impulsi (impulsi lenti o veloci e continuo) di intensità 80 - 95dB. Alimentazione a 6 - 28V DC tramite connettori faston 6,3mm. Tenuta stagna IP65.

## Buzzer

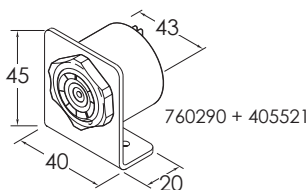
Emits pulse sound (slow or fast and continuous) with 80 - 95dB intensity. Requires 6 - 28V DC power supply with 6,3 mm faston connectors. IP65 protection.



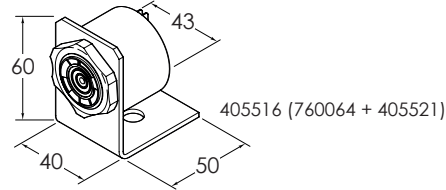
405521.01



405516



760290 + 405521



405516 (760064 + 405521)



760064



760290

| Cod.      | Description                                  | Faston | V DC   | dB      |   |
|-----------|----------------------------------------------|--------|--------|---------|---|
| 405516    | Pulse + Bracket                              | 2      | 6 ÷ 28 | 80 ÷ 95 | 1 |
| 405521    | Pulse                                        | 2      | 6 ÷ 28 | 80 ÷ 95 | 1 |
| 405521.01 | Fast Pulse + Continuous                      | 3      | 6 ÷ 28 | 80 ÷ 95 | 1 |
| 760064    | Aluminum bracket for external mount 60x40x50 |        |        |         | 1 |
| 760290    | Aluminum bracket for internal mount 45x40x20 |        |        |         | 1 |

## Nastro isolante - Insulating tape

CEI EN 60454

## Morsetti trasparenti - Transparent clips



| Cod.      | Description            | Color |   |
|-----------|------------------------|-------|---|
| 700051    | 0.15 mm x 25 mm x 25 m | Black | 5 |
| 700051-BL | 0.15 mm x 19 mm x 25 m | Blue  | 5 |
| 700051-G  | 0.15 mm x 19 mm x 25 m | Green | 5 |
| 700051-R  | 0.15 mm x 19 mm x 25 m | Red   | 5 |

- operating range from -5°C to 85°C;
- brass insert;
- galvanized steel screws;
- polycarbonate shells.
- temperatura di impiego -5 °C a 85 °C;
- inserti in ottone;
- viti in acciaio zincato;
- gusci in policarbonato.

## Nastro isolante adesivo telato normative FIAT

### Duct Insulating Adhesive tape FIAT norm



| Cod.   | Description            | Color |   |
|--------|------------------------|-------|---|
| 700074 | 0.15 mm x 19 mm x 25 m | Black | 5 |

406073



406003



406123



406121



| Cod.   | MAX Section (mm²) | # |    |
|--------|-------------------|---|----|
| 406073 | 4                 | 1 | 10 |
| 406003 | 6                 | 1 | 10 |
| 406117 | 10                | 1 | 10 |
| 406122 | 6                 | 3 | 10 |
| 406123 | 6                 | 2 | 10 |
| 406121 | 6                 | 5 | 10 |

## Fascette per cablaggi

- nylon 6.6 autoestinguente V2 UL 94;
- temperatura di impiego -40 ÷ +100 °C;
- 110 N max;
- D min 2 mm;
- D max 24 mm.



## Cable ties

- self-extinguishing 6,6 nylon V2 UL 94;
- operating range from -40°C to 100°C;
- Max 110 N;
- Min D 2 mm;
- Max D 24 mm.

| Cod.   | Description     |      |
|--------|-----------------|------|
| 235012 | 2,5 mm x 100 mm | 1000 |
| 235008 | 3,5 mm x 200 mm | 1000 |
| 235011 | 3,5 mm x 280 mm | 1000 |

## Morsetti “mammut” - “Mammut” clips



| Cod.   | MAX Section (mm <sup>2</sup> ) |  |
|--------|--------------------------------|-----------------------------------------------------------------------------------|
| 406124 | 2,5                            | 12                                                                                |
| 406223 | 4                              | 12                                                                                |



## Guida Omega per quadri elettrici Omega rail for electric panels UNI 5961-67 - DIN 46277



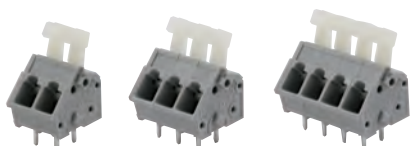
| Cod.   | Description            |  |
|--------|------------------------|-------------------------------------------------------------------------------------|
| 406120 | Omega rail 35 mm x 7,5 | 2 m                                                                                 |

## Morsetti Wago®/Weidmüller® per guida Omega - Wago®/Weidmüller® clips for Omega rail



| Cod.      | MAX Sect. (mm <sup>2</sup> ) | # | Wago / Weidmüller Ref. Note           |  |
|-----------|------------------------------|---|---------------------------------------|---------------------------------------------------------------------------------------|
| 406135    | 2,5                          | 1 | 2002-1207 (Wago)                      | 10                                                                                    |
| 406404    | 2,5/4                        | 1 | 2002-1611 (Wago)                      | 10                                                                                    |
| 406405    | 2,5/4                        | 2 | 2002-2211/1000-410 (Wago)             | 10                                                                                    |
| 406118    | 10                           | 1 | 2006-1207 (Wago)                      | 10                                                                                    |
| 406119    | 10                           | 1 | 2006-1204 Blue plastic body           | 10                                                                                    |
| 406119.01 | 10                           | 1 | Filler Plate for 406119               | 10                                                                                    |
| 406337    | 2,5                          | 1 | 03800460000 (Weidmüller)              | 10                                                                                    |
| 406132.02 | 2,5 / 1,5                    | 1 | 167430000 (Weidmüller)                | 10                                                                                    |
| 406132.03 | 2,5                          | 1 | 1689990000 (Weidmüller)               | 10                                                                                    |
| 406197    | 2,5 / 4                      | 2 | 2002-2201 (Wago)                      | 10                                                                                    |
| 406197.01 | -                            | - | filler plate for 406197               | 10                                                                                    |
| 406337.01 | -                            | - | 027956 - filler plate for 406337      | 10                                                                                    |
| 406386    | -                            | - | 0383560000 - filler plate             | 10                                                                                    |
| 406388    | -                            | - | 2002-402 (Wago)                       | 100                                                                                   |
| 406417    | -                            | - | 2002-404 (Wago)                       | 100                                                                                   |
| 406389    | -                            | - | 793-551 (Wago)                        | 500                                                                                   |
| 406307    | 6                            | - | 1814690000 (Weidmüller) - fuse holder | 10                                                                                    |

## Morsetti Wago®/Weidmüller®, passo 5 mm - Wago®/Weidmüller® clips, 5 mm pitch



| Cod.      | MAX Section (mm <sup>2</sup> ) | # | Wago Ref. |  |
|-----------|--------------------------------|---|-----------|---------------------------------------------------------------------------------------|
| 406247    | 2,5                            | 2 | 256-402   | 10                                                                                    |
| 406247.01 | 2,5                            | 3 | 256-403   | 10                                                                                    |
| 406247.02 | 2,5                            | 4 | 256-404   | 10                                                                                    |



## Puntalini e connettori a crimpare - Crimp caps and eyelets



| Cod.   | MAX Section (mm <sup>2</sup> ) | ø screw (mm) |  |
|--------|--------------------------------|--------------|-----------------------------------------------------------------------------------|
| 406548 | 35                             | 8            | 100                                                                               |
| 406596 | 35                             | 10           | 100                                                                               |
| 406602 | 35                             | 12           | 100                                                                               |



| Cod.   | MAX Section (mm <sup>2</sup> ) | L (mm) |  |
|--------|--------------------------------|--------|-----------------------------------------------------------------------------------|
| 406529 | 10                             | 15     | 100                                                                               |
| 406530 | 16                             | 15     | 100                                                                               |
| 406531 | 25                             | 15     | 100                                                                               |
| 406539 | 35                             | 16     | 100                                                                               |



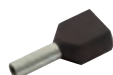
| Cod.   | Section (mm <sup>2</sup> ) | ø screw (mm) | Color                                                                             |  |
|--------|----------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 406537 | 1,5 ÷ 2,5                  | 4            |  | 100                                                                               |
| 406538 | 1,5 ÷ 2,5                  | 5            |  | 100                                                                               |



| Cod.   | Section (mm <sup>2</sup> ) | Color                                                                             |  |
|--------|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 406527 | 1,5 ÷ 2,5                  |  | 100                                                                               |



| Cod.      | MAX Sect. (mm <sup>2</sup> ) | L (mm) | Color                                                                               |  |
|-----------|------------------------------|--------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 406532-OR | 0,3-0,5                      | 8      |  | 100                                                                                |
| 406604-GR | 0,75                         | 8      |  | 100                                                                                |
| 406532    | 1                            | 8      |  | 100                                                                                |
| 406604-R  | 1                            | 8      |  | 100                                                                                |
| 406540    | 1,5                          | 8      |  | 100                                                                                |
| 406604-BL | 1,5                          | 8      |  | 100                                                                                |
| 406541    | 2,5                          | 8      |  | 100                                                                                |



| Cod.   | Section (mm <sup>2</sup> ) | ø screw (mm) | Color                                                                               |  |
|--------|----------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 406573 | 0,25 ÷ 1,5                 | 4            |  | 100                                                                                 |
| 406651 | 0,25 ÷ 1,5                 | 8            |  | 100                                                                                 |
| 406509 | 1,5 ÷ 2,5                  | 4            |  | 100                                                                                 |
| 406507 | 1,5 ÷ 2,5                  | 6            |  | 100                                                                                 |
| 406629 | 1,5 ÷ 2,5                  | 8            |  | 100                                                                                 |
| 406511 | 1,5 ÷ 2,5                  | 10           |  | 100                                                                                 |
| 406508 | 4 ÷ 6                      | 6            |  | 100                                                                                 |
| 406521 | 4 ÷ 6                      | 8            |  | 100                                                                                 |
| 406613 | 4 ÷ 6                      | 10           |  | 100                                                                                 |

| Cod.   | Section (mm <sup>2</sup> ) | Color                                                                               |  |
|--------|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 406516 | 4 ÷ 6                      |  | 100                                                                                 |

| Cod.   | Section (mm <sup>2</sup> ) | Size (mm)  | Color                                                                               |  |
|--------|----------------------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 406574 | 0,25 ÷ 1,5                 | 6,35 x 0,8 |  | 100                                                                                 |
| 406594 | 1,5 ÷ 2,5                  | 6,35 x 0,8 |  | 100                                                                                 |

| Cod.   | MAX Sect. (mm <sup>2</sup> ) | L (mm) | Color                                                                               |  |
|--------|------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 406612 | 2 X 1,5                      | 8      |  | 100                                                                                 |

| Cod.     | Section (mm <sup>2</sup> ) | L (mm) | Color                                                                                 |  |
|----------|----------------------------|--------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 406360-R | 0,25 ÷ 1,5                 | 25     |   | 100                                                                                 |
| 406360   | 1,5 ÷ 2,5                  | 25     |  | 100                                                                                 |
| 406359   | 4 ÷ 6                      | 25     |  | 100                                                                                 |

| Cod.   | Section (mm <sup>2</sup> ) | Color                                                                                 |  |
|--------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 406528 | 4 ÷ 6                      |  | 100                                                                                   |

| Cod.   | Section (mm <sup>2</sup> ) | Color                                                                                 |  |
|--------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 406628 | 1,5 ÷ 2,5                  |  | 100                                                                                   |

## Batterie e caricabatterie - Batteries and battery chargers



| Cod.      | Description               | Ah  |  |
|-----------|---------------------------|-----|-------------------------------------------------------------------------------------|
| 901212    | Sealed Lead Acid battery  | 3,4 | 1                                                                                   |
| 906505    | Sealed Lead Acid battery  | 7   | 1                                                                                   |
| 906565    | Sealed Lead Acid battery  | 26  | 1                                                                                   |
| 901213.01 | Switching battery charger | -   | 1                                                                                   |
| 906574    | Switching battery charger | -   | 1                                                                                   |

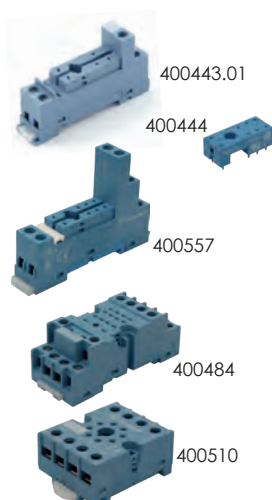


| Cod.    | Description               | Ah |  |
|---------|---------------------------|----|---------------------------------------------------------------------------------------|
| 906555  | Sealed Gel battery        | 18 | 1                                                                                     |
| 0819003 | Switching battery charger | -  | 1                                                                                     |

## ■ ■ Relè e zoccoli portarelè Finder® - ■ ■ Finder® relays & sockets



| Cod.             | Finder ref.      | A  | V DC    | Type          | Note                                          |  |
|------------------|------------------|----|---------|---------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| <b>400428</b>    | 403190120000     | 10 | 12      | 1 NO-NC       | Socket 400443/400443.01                       | 1                                                                                   |
| <b>400428.01</b> | 406190120000     | 16 | 12      | 1 NO-NC       | Socket 400443/400443.01                       | 1                                                                                   |
| <b>400428.02</b> | 403190240000     | 10 | 24      | 1 NO-NC       | Socket 400443/400443.01                       | 1                                                                                   |
| <b>400428.03</b> | 322170124000     | 6  | 12      | 1 NO-NC       | Socket 400443/400443.01                       | 1                                                                                   |
| <b>400429</b>    | 405290120000     | 8  | 12      | 2 NO-NC       | Socket 400444/400557                          | 1                                                                                   |
| <b>400429.01</b> | 405290240000     | 8  | 24      | 2 NO-NC       | Socket 400444/400557                          | 1                                                                                   |
| <b>400429.02</b> | 446290120000     | 10 | 12      | 2 NO-NC       | Socket 400444/400557                          | 1                                                                                   |
| <b>400429.03</b> | 446290240000     | 10 | 24      | 2 NO-NC       | Socket 400444/400557                          | 1                                                                                   |
| <b>400429.04</b> | 501290241000     | 8  | 24      | 2 NO-NC       | Socket 400444/400557                          | 1                                                                                   |
| <b>400429.05</b> | 40.62.7.012.4000 | 10 | 12      | 2 NO-NC       | Socket 400444/400557                          | 1                                                                                   |
| <b>400433</b>    | 30.22.7.005.0010 | 7  | 5       | 2 NO-NC       | Socket 400444/400557                          | 1                                                                                   |
| <b>400426</b>    | 553290120040     | 10 | 12      | 2 NO-NC       | Socket 400484                                 | 1                                                                                   |
| <b>400426.01</b> | 553290240040     | 10 | 24      | 2 NO-NC       | Socket 400484                                 | 1                                                                                   |
| <b>400426.02</b> | 553280240040     | 10 | 24 ac   | 2 NO-NC       | Socket 400484                                 | 1                                                                                   |
| <b>400475</b>    | 553490120040     | 7  | 12      | 4 NO-NC       | Socket 400484                                 | 1                                                                                   |
| <b>400475.01</b> | 553490240040     | 7  | 24      | 4 NO-NC       | Socket 400484                                 | 1                                                                                   |
| <b>400556</b>    | 385170120050     | 6  | 12      | 1 NO-NC       |                                               | 1                                                                                   |
| <b>400556.01</b> | 385170240050     | 6  | 24      | 1 NO-NC       |                                               | 1                                                                                   |
| <b>400567</b>    | 345170120010     | 6  | 12      | 1 NO-NC       | Socket 400567.07                              | 1                                                                                   |
| <b>400559</b>    | 800102400000     | 16 | 12 / 24 | 1 CO-SPDT     | Timer                                         | 1                                                                                   |
| <b>400493</b>    | 202290120000     | 16 | 12      | 2 NO          | Step relay                                    | 1                                                                                   |
| <b>400525</b>    | 202390240000     | 16 | 24      | 1 NC-NO       | Step relay                                    | 1                                                                                   |
| <b>400560</b>    | 9901902499       |    | 6 / 24  | ➔ + green LED | Protect & alert for Finder sockets 9575, 9474 | 1                                                                                   |
| <b>400560.01</b> | 9902902499       |    | 6 / 24  | ➔ + green LED | Protect & alert for Finder sockets 9404       | 1                                                                                   |
| <b>400561</b>    | 628282300300     | 16 | 230 ac  | 2 NO-NC       | Power relay                                   | 1                                                                                   |
| <b>400414</b>    | 863000240000     |    | 24      |               |                                               | 1                                                                                   |



| Cod.             | Finder ref. | Note                                       |  |
|------------------|-------------|--------------------------------------------|---------------------------------------------------------------------------------------|
| <b>400443</b>    | 95132SMA    | 1 exch. relay socket - circuit board mount | 1                                                                                     |
| <b>400443.01</b> | 9563SMA     | 1 exch. relay socket - DIN rail mount      | 1                                                                                     |
| <b>400444</b>    | 95152SMA    | 2 exch. relay socket - circuit board mount | 1                                                                                     |
| <b>400557</b>    | 9575SMA     | DIN rail 2 exch. relay socket              | 1                                                                                     |
| <b>400558</b>    | 9404SMA     | DIN rail 4 exch. relay socket              | 10                                                                                    |
| <b>400484</b>    | 9474SMA     | HC2 / HC4, DIN rail                        | 1                                                                                     |
| <b>400484.01</b> | 9482SMA     |                                            | 1                                                                                     |
| <b>400510</b>    | 9026SMA     | Octal, DIN rail                            | 1                                                                                     |
| <b>400510.01</b> | 9022SMA     | Octal, DIN rail                            | 1                                                                                     |
| <b>400415</b>    | 9505SPA     | Compass Terminals Socket                   | 10                                                                                    |
| <b>400425</b>    | 9701SMA     | Plate Terminals Socket                     | 10                                                                                    |

## ■ ■ Relè statico ad alta velocità OMRON® - ■ ■ OMRON® High-Speed Static Relay



| Cod.          | Omron ref.  | A   | V DC | Type    | Note            |  |
|---------------|-------------|-----|------|---------|-----------------|---------------------------------------------------------------------------------------|
| <b>400524</b> | G3R-IDZR1SN | 0,1 | 5-24 | 1 NO-NC | Operational LED | 1                                                                                     |

| Cod.             | Description                   |  |
|------------------|-------------------------------|---------------------------------------------------------------------------------------|
| <b>400524.01</b> | 400524 socket, DIN rail mount | 1                                                                                     |

## ■ ■ Relè con connessioni faston e zoccoli portarelè - ■ ■ Faston relays & sockets

|                                                                                                     |                                                    |                                                        |                                       |                                                                               |                                                             |                                                        |                                              |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------|
| <b>400447</b><br>20 A NO<br>30 A NC<br>12 V DC<br><b>400447.01</b><br>20 A NO<br>30 A NC<br>12 V DC | <b>1 NO-NC</b><br>                                 | <b>400549</b><br>20 A NO<br>30 A NC<br>12 V DC         | <b>1 NO-NC</b><br>with resistance<br> | <b>400527</b><br>20 A NO<br>30 A NC<br>12 V DC                                | <b>1 NO-NC</b><br>with arc-exting. diode<br>                | <b>400527.01</b><br>10 A NO<br>20 A NC<br>24 V DC      | <b>1 NO-NC</b><br>with arc-exting. diode<br> |
| <b>400486</b><br>30 A<br>12 V DC                                                                    | <b>1 NO</b><br>with 30 A Fuse<br>                  | <b>400445</b><br>40 A<br>12 V DC                       | <b>1 NO</b><br>                       | <b>400578</b><br>70 A<br>12 V DC                                              | <b>1 NO-NC</b><br>                                          | <b>400547.01</b><br>20 A<br>24 V DC                    | <b>1 NO</b><br>                              |
| <b>400630.01</b><br>10 A NO<br>20 A NC<br>24 V DC                                                   | <b>1 NO-NC</b><br>                                 | <b>400497</b><br>25 A<br>12 V DC                       | <b>1 NO</b><br>Micro relay<br>        | <b>400528</b><br>15/25 A<br>12 V DC<br><b>400528.01</b><br>10/20 A<br>24 V DC | <b>1 NO-NC</b><br>Micro relay<br>with arc-exting. diode<br> | <b>400544</b><br>15/25 A<br>12 V DC                    | <b>1 NO-NC</b><br>Micro relay<br>            |
| <b>400544.02</b><br>15/25 A<br>12 V DC                                                              | <b>1 NO-NC</b><br>Micro relay<br>with resistor<br> | <b>406343</b><br>Socket for relay<br>70A               |                                       | <b>406074</b><br>5 poles socket                                               |                                                             | <b>406070</b><br>5 poles socket<br>for circuit boards  |                                              |
| <b>406074.01</b><br>9 poles socket                                                                  |                                                    | <b>406074.02</b><br>5 poles socket<br>for Micro relays |                                       | <b>406077</b><br>Hella<br>socket fuse<br>modular lamellar                     |                                                             | <b>406074.03</b><br>Hella<br>Socket<br>for Mini relays |                                              |

## ■ ■ Relè Tyco® per circuiti stampati - ■ ■ Tyco® relays for print boards

|                                     |                                            |                                     |                                            |                                     |                                            |  |
|-------------------------------------|--------------------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------|--------------------------------------------|--|
| <b>400477</b><br>30 A NO<br>12 V DC | <b>1 NO-NC</b><br>switching capability<br> | <b>400487</b><br>25 A NO<br>12 V DC | <b>1 NO-NC</b><br>switching capability<br> | <b>400489</b><br>10 A NO<br>12 V DC | <b>1 NO-NC</b><br>switching capability<br> |  |
| (Tyco ref.: v23076-A1001-C133)      |                                            | (Tyco ref.: v23086-C1001-A403)      |                                            | (Tyco ref.: v23072-C1061-A303)      |                                            |  |

## Sensori di prossimità OMRON®

IP69K

## OMRON® proximity sensors

IP69K

Disponibili in versioni precablate completi di dadi di montaggio. Corpo in acciaio inox o ottone con filettatura metrica, uscita NPN o PNP. Funzionamento in modalità normalmente aperto (NO). Alimentazione 12/24V DC.

Available in pre-cabled versions with mounting nuts. Stainless steel or brass body with metric threading, NPN or PNP output. Normal open (NO) operating modality. 12/24V DC power supply.

401932



401928



401929



401935



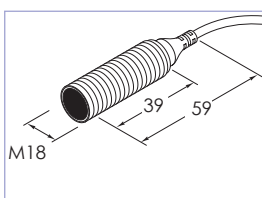
401937



| Cod.      | Omron Ref.           | AxB(C)<br>(mm) | OUT | Reading distance | Screening | Body Material   | NO | NC |  |
|-----------|----------------------|----------------|-----|------------------|-----------|-----------------|----|----|-------------------------------------------------------------------------------------|
| 401932    | E2A-S08KS02-WP-B1    | M8 x 27(40)    | PNP | 2 mm             | •         | Stainless steel | •  |    | 1                                                                                   |
| 401928    | E2A-M18KS08-WP-C1 2M | M18 x 39(59)   | NPN | 8 mm             | •         | Brass           | •  |    | 1                                                                                   |
| 401928.01 | E2A-M18KS08-WP-B1 2M | M18 x 39(59)   | PNP | 8 mm             | •         | Brass           | •  |    | 1                                                                                   |
| 401929    | E2A-M18LN16-WP-C1    | M18 x 61(81)   | NPN | 16 mm            |           | Brass           | •  |    | 1                                                                                   |
| 401934    | E2A-M12KN08-WPB1     | M12 x 34(50)   | PNP | 8 mm             |           | Brass           | •  |    | 1                                                                                   |
| 401934.01 | E2A-M12KN08-WP-C1-2M | M12 x 34(50)   | NPN | 8 mm             |           | Brass           | •  |    | 1                                                                                   |
| 401933    | E2A-M12LS04-WP-B1 2M | M12 x 56(72)   | PNP | 4 mm             | •         | Brass           | •  |    | 1                                                                                   |
| 401933.01 | E2A-M12LS04-WP-C1-2M | M12 x 56(72)   | NPN | 4 mm             | •         | Brass           | •  |    | 1                                                                                   |
| 401933.02 | E2A-M12KS04-WP-C2-2M | M12 x 34(50)   | NPN | 4 mm             | •         | Brass           |    | •  | 1                                                                                   |
| 401935    | E2A-M18LS08-M1B1     | M18 x 61(77)   | PNP | 8 mm             | •         | Brass           | •  |    | 1                                                                                   |
| 401942    | E2A-M18LN16-M1-B2    | M18 x 61(75)   | PNP | 16 mm            |           | Brass           |    | •  | 1                                                                                   |
| 401944    | E2A-M18LS08-M1B2     | M18 x 61(77)   | PNP | 8 mm             | •         | Schermato       |    | •  | 1                                                                                   |
| 401937    | E2A-M30KS15-WP-B1 2M | M30x44(64)     | PNP | 15 mm            | •         | Brass           | •  |    | 1                                                                                   |



| Cod.        | Description                                        |  |
|-------------|----------------------------------------------------|-------------------------------------------------------------------------------------|
| 401936      | 90° connector for 401935 sensor                    | 1                                                                                   |
| 401943-2,0  | Conn. M12 diritto F. 4x0,34 CEI 2022 2m            | 1                                                                                   |
| 401945-10,0 | Conn. M12 90° F. 4x0,34 CEI 2022 10m               | 1                                                                                   |
| 401946-5,0  | Conn. costampato M12 diritto M. 4x0,34 CEI 2022 5m | 1                                                                                   |



| Cod.       | Modello<br>Model               | Tipo<br>Type | L (m) |
|------------|--------------------------------|--------------|-------|
| 917006-0,5 | Sensore CL5X-prox Deutsch      | NO           | 0,5   |
| 917023-0,5 | Sensore CL5X-prox SuperSeal 3p | NO           | 0,5   |

## Trasduttori di Pressione Keller®

Caratteristiche:

- uscita 4..20 mA
- alimentazione 8..28 V
- temperatura compensata 0..50 °C
- grado di protezione IP 67
- connettore pressostato Packard Plug
- ingresso G1/4" maschio con guarnizione usit ring
- classe di precisione 1% da 10÷40 °C - 2% da 0÷60

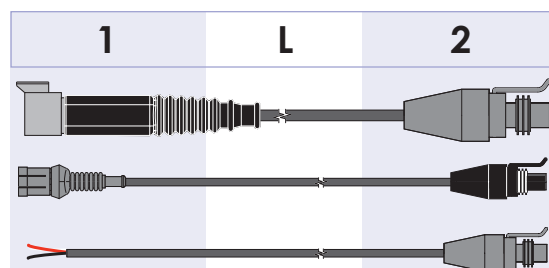
## Keller® Pressure Transducers

Specifications:

- output 4..20 mA
- feeding 8..28 V
- compensated temperature 0..50 °C
- IP67 protection grade
- Packard Plug connector
- G1/4" male inlet, with usit ring seal
- accuracy class 1% from 10÷40 °C - 2% from 0÷60



| Cod.        | Max Pressure<br>(bar) | Notes            |  |
|-------------|-----------------------|------------------|---------------------------------------------------------------------------------------|
| 790019-0,17 | 0,17                  | un version       | 1                                                                                     |
| 790007-10   | 10                    | uncabled version | 1                                                                                     |
| 790007-16   | 16                    | uncabled version | 1                                                                                     |
| 790007-25   | 25                    | uncabled version | 1                                                                                     |
| 790007-60   | 60                    | uncabled version | 1                                                                                     |
| 790007-100  | 100                   | uncabled version | 1                                                                                     |



| Cod.       | 1                   | L<br>(m) | 2            |  |
|------------|---------------------|----------|--------------|---------------------------------------------------------------------------------------|
| 919021-0,5 | Deutsch DTM 2 poles | 0,5      | Packard Plug | 1                                                                                     |
| 919021-1,5 | Deutsch DTM 2 poles | 1,5      | Packard Plug | 1                                                                                     |
| 919080-0,5 | Superseal 3 poles   | 0,5      | Packard Plug | 1                                                                                     |
| 919079-0,5 | not cabled          | 0,5      | Packard Plug | 1                                                                                     |
| 919079-1,5 | not cabled          | 1,5      | Packard Plug | 1                                                                                     |
| 919079-3,0 | not cabled          | 2,5      | Packard Plug | 1                                                                                     |



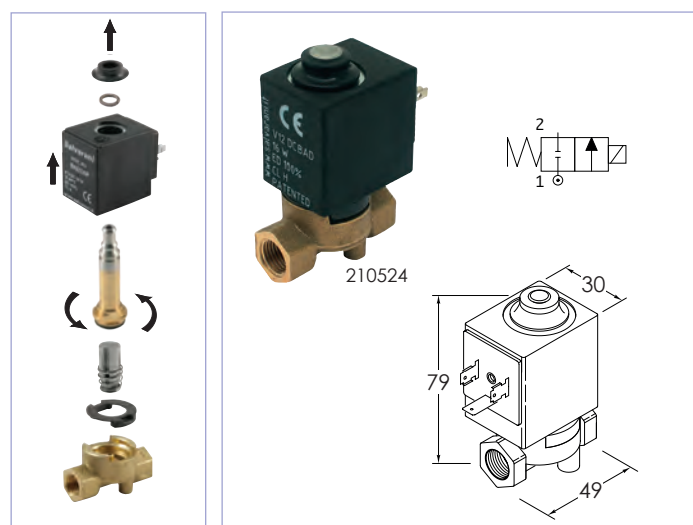
## ■ Elettrovalvole

Caratteristiche tecniche:

- Cannotto a baionetta, sistema brevettato per una rapida ispezione manuale del pilota.
- Ferma bobina in gomma, anello elastico per il fissaggio della bobina senza attrezzatura.
- Lavorazioni meccaniche di alta precisione per garantire il minor grado di rugosità e limitare l'adesione del calcare.
- Alta resistenza alla corrosione grazie agli organi interni in acciaio inox a basso residuo magnetico, specifico per elettrovalvole.
- Temperatura di funzionamento da -10°C a +50°C;
- Temperatura dei fluidi da -10°C a +130°C;

Materiali utilizzati:

- Corpo in ottone CW617N (EN 12165)
- Organi interni in acciaio INOX
- Cannotto in acciaio INOX AISI 303 (EN 10088-3)
- Materiali tenuta in FPM (Viton), NBR, EPDM, silicone.



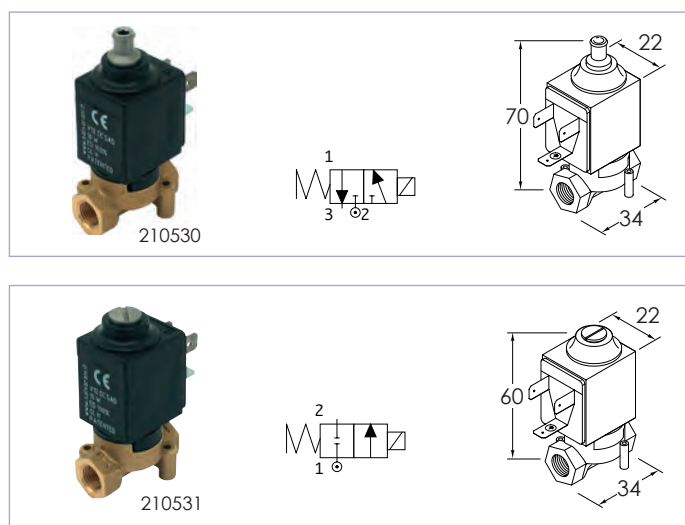
## ■ Solenoid valves

Specifications:

- Bayonet tube, patented system allowing quick manual inspection of the pilot.
- Rubber coil stop, elastic ring ensuring coil's fixing without tools.
- High precision mechanical machining to obtain the lowest rate of roughness to limit limestone adherence.
- High resistance to corrosion thanks to the inner stainless steel parts with low magnetic residue, specific for solenoid valves.
- Operating range from -10°C to 50°C;
- Fluids temperature from -10°C to 130°C;

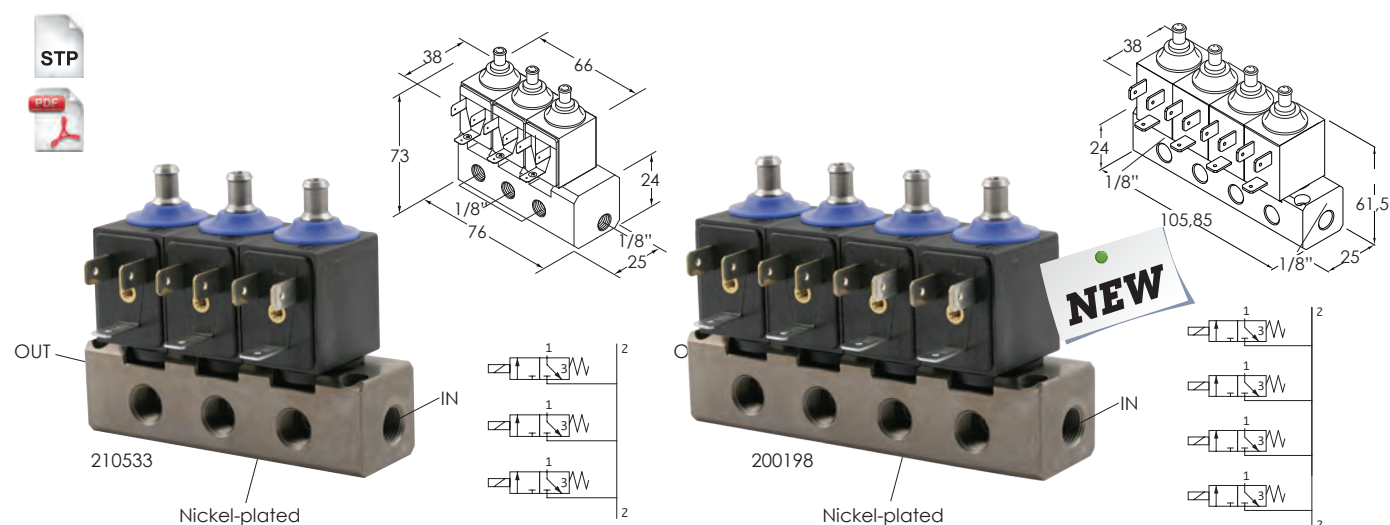
Materials used:

- Brass body CW617N (EN 12165)
- Stainless steel inner parts
- AISI 303 stainless steel tube (EN 10088-3)
- Seals in FPM (Viton), NBR, EPDM, silicone.



| Cod.   | n° Outlet | Pressure (bar) | Q (l/min) | ø int. (mm) | Fittings | V (V dc) | P max (W) |   |
|--------|-----------|----------------|-----------|-------------|----------|----------|-----------|---|
| 210524 | 2         | 0-8            | 4,5       | 3           | 1/4"     | 12       | 16        | 5 |
| 210531 | 2         | 0-2            | 3,5       | 3           | 1/8"     | 12       | 10        | 5 |
| 210537 | 2         | 0-8            | 4,5       | 3           | 1/4"     | 24       | 16        | 5 |
| 210530 | 3         | 0-2            | 2,7       | 2,5         | 1/8"     | 12       | 10        | 5 |
| 210532 | 3         | 0-8            | 1         | 1,5         | 1/8"     | 12       | 10        | 5 |

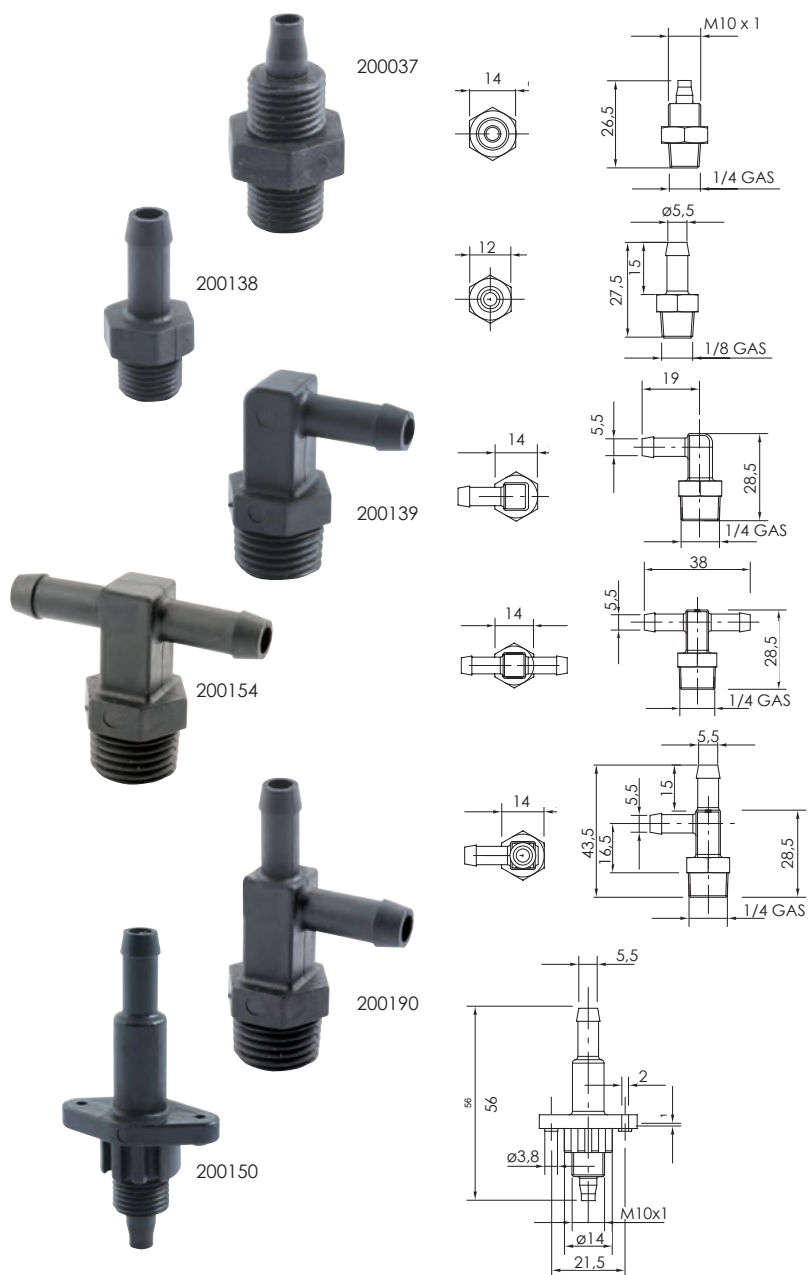
## ■ Elettrovalvole a collettore - ■ Manifold solenoid valves



| Cod.   | n° Outlet | Pressure (bar) | Q (l/min) | ø int. (mm) | Fittings | Material      | Vdc | P max (W) |   |
|--------|-----------|----------------|-----------|-------------|----------|---------------|-----|-----------|---|
| 210533 | 3         | 0-8            | 1,0       | 1,5         | 1/8"     | Nickel-plated | 12  | 30        | 1 |
| 200198 | 4         | 0-8            | 1,0       | 1,5         | 1/8"     | Nickel-plated | 12  | 40        | 1 |

## Raccordi in plastica

In poliammide caricato vetro (PA6 + 30GF).



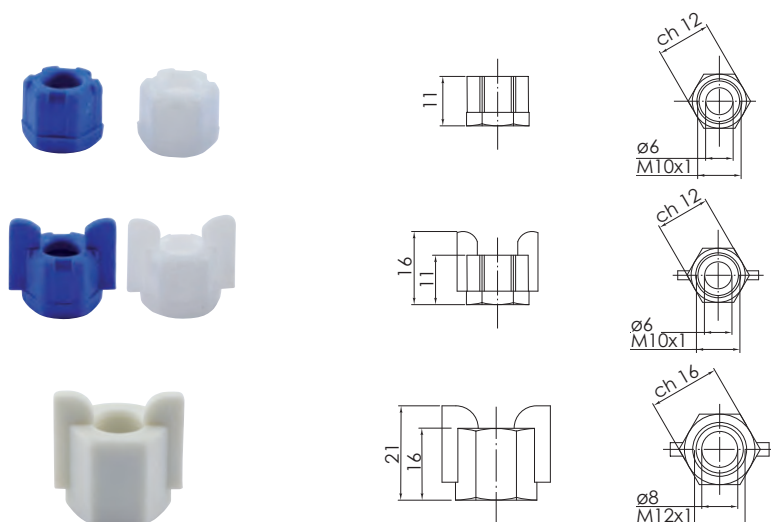
## Plastic fittings

Glass-filled polyamide (PA6 + 30GF).

| Cod.   | Description / Notes                        |     |
|--------|--------------------------------------------|-----|
| 200037 | 1/8" straight fitting, 6x4 tubing          | 100 |
| 200138 | 1/8" straight fitting, 8x6 hose holder     | 100 |
| 200139 | 1/4" elbow fitting, 8x6 hose holder        | 100 |
| 200154 | 1/4" double elbow fitting, 8x6 hose holder | 100 |
| 200190 |                                            | 100 |
| 200150 |                                            | 100 |

## Ghiere filettate in plastica

In resina acetalica (POM).



## Plastic threaded ring nuts

Acetalic resin (POM).

| Cod.   | Description / Notes |     |
|--------|---------------------|-----|
| 200042 | 6x4 blue ring nut   | 100 |
| 200036 | 6x4 white ring nut  | 100 |
| 200044 | 6x4 blue ring nut   | 100 |
| 200043 | 6x4 white ring nut  | 100 |
| 200050 | 8x6 white ring nut  | 100 |

## Tubazioni in plastica

In PA12 (Rilsan), poliuretano e polietilene.

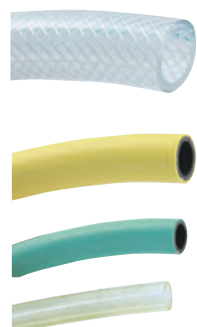
## Plastic tubing

Made of PA12 (Rilsan), Polyurethane and Polyethylene.



| Cod.    | Size<br>(Out x In, mm) | Color                                                                               | Material          | Temp. Range<br>(° C) | Max Work Pressure<br>(atm) |  |
|---------|------------------------|-------------------------------------------------------------------------------------|-------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|
| 230009  | 6 x 4 (3,8)            |    | Polyurethane      | -40 ÷ +60            | 11                         | 100 m                                                                               |
| 230023  | 6 x 4 (3,8)            | Transparent                                                                         |                   |                      | 11                         |                                                                                     |
| 230032  | 8 x 6 (5,7)            |    | Polyurethane      | -40 ÷ +60            | 8                          | 100 m                                                                               |
| 230026  | 8 x 6 (5,7)            | Transparent                                                                         | Polyurethane      |                      | 8                          |                                                                                     |
| 230041  | 10 x 14                | Transparent                                                                         | Polyurethane 98MB |                      | 11                         |                                                                                     |
| 230031  | 4 x 2                  |  | PA11 (Rilsan)     | -40 ÷ +80            | 44                         | 100 m                                                                               |
| 230006  | 6 x 4                  |  |                   |                      | 27                         |                                                                                     |
| 230005  | 6 x 4                  |  |                   |                      | 27                         |                                                                                     |
| 230028  | 6 x 4                  |  |                   |                      | 27                         |                                                                                     |
| 230017  | 8 x 6                  |  | PA11 (Rilsan)     | -40 ÷ +80            | 19                         | 100 m                                                                               |
| 230024  | 8 x 6                  |  |                   |                      | 19                         |                                                                                     |
| 927253H | 4 x 2                  |  | Polyethylene      | -10 ÷ +60            | 21                         | 100 m                                                                               |
| 230038  | 6 x 4                  |  |                   |                      | 13                         |                                                                                     |

## Tubazioni per liquidi - Plastic tubing suitable for liquids



| Cod.   | Size<br>(Out x In, mm) | Color                                                                               | Material | Temp. Range<br>(° C) | Max Work Pressure<br>(atm) |  |
|--------|------------------------|-------------------------------------------------------------------------------------|----------|----------------------|----------------------------|---------------------------------------------------------------------------------------|
| 230039 | 16 x 10                | transparent                                                                         | PVC      | -10 ÷ +50            | 15                         | 25 m                                                                                  |
| 230040 | 13 x 19                |                                                                                     |          |                      | 8                          | 100 m                                                                                 |
| 230029 | 26 x 19                |                                                                                     |          |                      |                            | 25 m                                                                                  |
| 230018 | 17 x 12/13             |  | PVC      | -                    | 8                          | 50 m                                                                                  |
| 230025 | 12 x 8                 |  | PU       |                      | 20                         | 60 m                                                                                  |
| 230033 | 6x10                   | transparent                                                                         | Silicone | HW/55                | -                          | 100m                                                                                  |

## ■ ■ Attrezzi per cablaggio - ■ ■ Wiring tools



| Cod.   | Description                 |  |
|--------|-----------------------------|-----------------------------------------------------------------------------------|
| 406363 | Wire Stripper               | 1                                                                                 |
| 406364 | Wire cutter TR 25           | 1                                                                                 |
| 406365 | Wire cutter TR 30           | 1                                                                                 |
| 406367 | Scissors                    | 1                                                                                 |
| 406436 | Manual hose clamp max. ø4,8 | 1                                                                                 |

| Cod.   | Description                                                   |  |
|--------|---------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 406324 | Multi purpose pliers                                          | 1                                                                                   |
| 406371 | TYCO Universal pliers                                         | 1                                                                                   |
| 406368 | Pliers for Pre-insulated caps 0,25 - 6 mm <sup>2</sup>        | 1                                                                                   |
| 406366 | Small pliers                                                  | 1                                                                                   |
| 406438 | Universal Caliper X Tub.nudi And Preis 4 - 16 mm <sup>2</sup> | 1                                                                                   |
| 406439 | Pre Insulated Faston Universal Caliper                        | 1                                                                                   |

## ■ ■ Accessori per Deutsch® - ■ ■ Deutsch® accessories



| Cod.       | Deutsch ref. | Description                   | Serie             |  |
|------------|--------------|-------------------------------|-------------------|---------------------------------------------------------------------------------------|
| 406125-DTM |              | Extractor - Metal             | DTM               | 1                                                                                     |
| 406125-DT  |              | Extractor - Metal             | DT-HPD-DRC        | 1                                                                                     |
| 406125.02  |              | Extractor - Plastic           |                   | 1                                                                                     |
| 406394     | DTT-16-00    | Crimp tool for DT series      | DT                | 1                                                                                     |
| 406465     | HDT-48-00    | Crimp tool for solid contacts | DT-HDT            | 1                                                                                     |
| 406648     |              | Kit Box Estrattori Deutsch    | DT/DTM/DTP HD/HDP | 1                                                                                     |

406324

Pinza manuale multiuso  
Hand crimp tool



406125

Estrattore contatti CPT/Mate-n-Lok  
CPT/Mate-n-Lok contacts extractor



406125.01

Estrattore contatti ITT/Burndy  
ITT/Burndy contacts extractor



406303.01

406303.02

406303

Set estrattori necessari per connettore Sicma - Sicma connector extractors set



406125.03

Estrattore conn Weather-Pac  
Weather-Pac contacts extractor

406125.04

Estrattore contatti Superseal  
Superseal contacts extractor



406125.05

Estrattore contatti JPT  
JPT contacts extractor

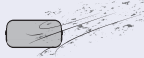
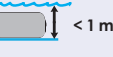
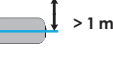




## Gradi di protezione IP

IP Protection grades

EN60529

| Grado<br>Grade | Solidi<br>Solids                                                                           | Grado<br>Grade | Acqua<br>Water                                                                           |
|----------------|--------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| 1              |  > 50 mm  | 1              |         |
| 2              |  > 12 mm  | 2              |  ± 15°  |
| 3              |  > 2,5 mm | 3              |  ± 60°  |
| 4              |  > 1 mm   | 4              |         |
| 5              |           | 5              |         |
| 6              |           | 6              |  Press  |
|                |                                                                                            | 7              |  < 1 m  |
|                |                                                                                            | 8              |  > 1 m |

Il valore dei gradi di protezione/IP indicati si riferiscono all'uso normale del prodotto. Vogliate contattarci per dettagli ulteriori.

The value of IP degrees of protection shown are for the normal use of the product. Please contact us for further details.

### Portata corrente per sezione del cavo Current rate per cable section

| Ø                                             | A<br>uso continui<br>continuuous use | A<br>uso interrotto<br>interrupted use        |
|-----------------------------------------------|--------------------------------------|-----------------------------------------------|
| 1                                             | 5                                    | 12                                            |
| 1,5                                           | 8                                    | 16                                            |
| 2,5                                           | 13                                   | 28                                            |
| 4                                             | 22                                   | 45                                            |
| 6                                             | 33                                   | 69                                            |
| 10                                            | 55                                   | 115                                           |
| Caduta di tensione<br>Fall of voltage<br>< 1V |                                      | Caduta di tensione<br>Fall of voltage<br>< 2V |
| Cavo/Cable 5m - T.30°C                        |                                      |                                               |

## Legenda

Legend

|                                                                                            |                                                                                          |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| #                                                                                          | Numero di contatti<br>Contacts number                                                    |
| #P                                                                                         | Numero di contatti di potenza<br>Power contacts number                                   |
| #S                                                                                         | Numero di contatti segnale<br>Signal contacts number                                     |
| #Ø                                                                                         | Numero di fori<br>Number of holes                                                        |
| L (mm)                                                                                     | Lunghezza (mm)<br>Length (mm)                                                            |
|           | Quantità per confezione<br>Quantity per package                                          |
|           | Misura chiave di montaggio<br>Spanner/wrench size                                        |
|           | Funzioni<br>Functions                                                                    |
|           | Funzioni<br>Functions                                                                    |
|           | Adatto per interruttori a leva<br>Suitable for lever switches                            |
|           | Adatto per interruttori a pulsante<br>Suitable for push-button switches                  |
|  (5x20)  | Adatto per/Fusibili in vetro 5 x 20<br>Suitable for/5 x 20 glass fuses                   |
|  (6x32) | Adatto per/Fusibili in vetro 6 x 32<br>Suitable for/6 x 32 glass fuses                   |
|         | Adatto per/Fusibili a nastro<br>Suitable for/Tape fuses                                  |
|  STD    | Adatto per/Fusibili a lama standard 19,2 mm<br>Suitable for/Standard 19,2 mm blade fuses |
|  MAXI   | Adatto per/Fusibili a lama Maxi 29,2 mm<br>Suitable for/Maxi 29,2 mm blade fuses         |
|  MINI   | Adatto per/Fusibili a lama Mini 11,2 mm<br>Suitable for/Mini 11,2 mm blade fuses         |
|         | Misura del pressacavo<br>Cable grip size                                                 |
|         | Bobina<br>Reel                                                                           |
|         | Lunghezza in metri della matassa<br>Henk length, in meters                               |
|         | Prodotti realizzati da Salvarani<br>Products made by Salvarani                           |
|         | Disegno 3D disponibile<br>3D drawing available                                           |
|         | Scheda tecnica disponibile<br>Technical sheet available                                  |
|         | Prodotti realizzati da Salvarani<br>Products made by Salvarani                           |
|         | Prodotti commerciali<br>Commercial products                                              |

## Our other catalogues

### Compressors

12 VDC dry diaphragm piston compressor.

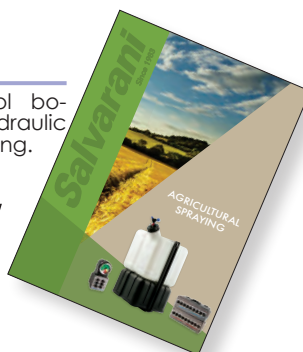
# Salvarani



### Agricultural products

Electric and electronic control boxes, ISOBus for spraying and hydraulic equipments and fittings for spraying.

# Salvarani



### Spray test Equipment

Calibration and adjustments equipments for spraying boom and air blast sprayers.

# aams-salvarani



 SALVARANI joven y dinámica empresa, nace en el corazón de la Emilia, región italiana que honra una larga historia y experiencia en el campo de los componentes agrícolas e industriales.

SALVARANI ofrece a su propia clientela una gama completa de componentes y productos, ofreciendo también su propia experiencia para el desarrollo y realización de proyectos personalizados.

Innovación, tutela del ambiente, precisión de trabajo, confiabilidad del producto y asistencia son la línea guía para una búsqueda continua dirigida al mejoramiento y a la creación de nuevos productos. Esto se traduce en artículos de alto estándar tecnológico en grado de garantizar competitividad y ventajas económicas a las empresas constructoras, a las redes de venta y usuarios.

 Недавно созданная и активно действующая компания SALVARANI расположена в самом сердце Эмилии, итальянского региона с давней историей и традициями в производстве комплектующих для сельскохозяйственной и промышленной техники.

В этом секторе компания SALVARANI готова предложить полный ассортимент комплектующих и другой продукции, а также свой опыт разработки и реализации индивидуальных проектов.

Инновации, забота об окружающей среде, точность в работе, надежность продукции и поддержка — таковы руководящие принципы непрекращающегося поиска путей совершенствования существующих и создания новых изделий. Благодаря этому на свет появляются изделия высокого технологического уровня, способные составить достойную конкуренцию и дать экономические преимущества строительным предприятиям, сетям сбыта и конечным потребителям.

 意大利萨瓦拉尼有限责任公司，位于意大利工农业发达的Emilia地区，是一家年轻，充满活力但又充分秉承欧洲“自主创新”与“追求卓越”工业传统的公司。经过不断的发展与完善，意大利萨瓦拉尼有限责任公司已具备完整的产品体系，可供客户进行充分地选择。根据不同的市场需求反馈，公司依托本身丰富的开发，设计经验，不间断地进行新产品的开发和设计。

 SALVARANI, empresa jovem e dinâmica, está localizada no coração da Emilia, uma região italiana com uma longa história e experiência na área dos componentes agrícolas e industriais.

SALVARANI oferece a seus clientes uma gama completa de componentes e produtos, oferecendo também sua experiência para o desenvolvimento e a realização de projetos personalizados.

Inovação, proteção ambiental, precisão de trabalho, confiabilidade do produto e suporte são as orientações para uma contínua pesquisa que visa melhorar e criar novos produtos. Isso resulta em produtos de alto padrão tecnológico capazes de garantir competitividade e benefícios econômicos para as empresas fabricantes, as redes de venda e os usuários.

 Nem véletlen, hogy a SALVARANI, egy fiatal és dinamikus vállalat Emilia közepén található, az olasz régió közepén, mely hosszú történelemmel és nagy tapasztalattal rendelkezik a mezőgazdasági és ipari alkatrészek területén.

A SALVARANI teljes termékkört kínál a megrendelőinek, valamint specifikus tapasztalatot a teszteszabott projektek kialakításában és megvalósításában.

Innováció, környezettudatosság, megmunkálás pontossága, termék megbízhatóság és támogatás a fő irányelvek az új termékek fejlesztése és létrehozása felé forduló folyamatos kutatásnál. Az ilyen erőfeszítésnek köszönhetően a SALVARANI termékek hangsúlyozott technológiai és mechanikai standardokkal készülnek, melyek garantálják a működési és gazdasági előnyöket a gyártók, kiskereskedelmi hálózatot és végfelhasználók számára.

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Note:

# Worldwide retailers

## Russia:

**Bondioli & Pavese LTD**  
Krasnodar - Russia  
[www.bondioli-pavese.com](http://www.bondioli-pavese.com)

## Ukraine:

**Bondioli & Pavese LLC**  
Ternopil - Ukraine  
[www.bondioli-pavese.com](http://www.bondioli-pavese.com)

## Cina:

**Leixina**  
[www.leixina.com](http://www.leixina.com)

## Australia:

**Agrispares**  
Cavan - South Australia  
[www.agrispares.com.au](http://www.agrispares.com.au)

## Romania:

**SC Salvarani ROM srl**  
Segarcea - Romania  
[www.gpsagricol.ro](http://www.gpsagricol.ro)

## South Africa:

**Rovic & Leers**  
Cape Town - South Africa  
[www.rovicleers.co.za](http://www.rovicleers.co.za)

## Greece:

**Promex Ltd**  
Thessaloniki - Greece  
[www.promex.gr](http://www.promex.gr)

## Hungary:

**Farmcenter KFT.**  
Godollo - Hungary  
[www.farmcenter.hu](http://www.farmcenter.hu)

## Spain:

**Bondioli Y Pavese Iberica SA**  
Zaragoza - Spain  
[www.bondioli-pavese.com](http://www.bondioli-pavese.com)

## Salvarani srl

Poviglio (RE) - Italy  
[www.salvarani.com](http://www.salvarani.com)

## Uruguay:

**Suragric sa**  
Montevideo - Uruguay  
[www.sma.com.uy](http://www.sma.com.uy)

## Argentina:

**Spraytec srl**  
Rosario - Argentina  
[www.spraytec-srl.com.ar](http://www.spraytec-srl.com.ar)

## Brazil:

**Herbicat Ltda**  
Caianduva - Brazil  
[www.herbicat.com.br](http://www.herbicat.com.br)

## Chile:

**Sargent Agricola**  
Santiago - Chile  
[www.sargent.biz](http://www.sargent.biz)

## Canada & USA:

**SNA MFG LLC**  
[www.snamfg.com](http://www.snamfg.com)



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