



060

**DISPOSITIVI DI COMANDO
DI SICUREZZA**

SAFETY CONTROL DEVICES

060



Pulsantiera a due mani

Two-hand control device

SISTEMA MODULARE PER PULSANTIERE

Il nuovo sistema modulare per pulsantiere di comando che la New Elfin ha realizzato pensando alle esigenze del mercato e del tuo lavoro trova impiego nel settore dell'automazione industriale, è dotato di una serie di componenti che permettono di configurare svariate strutture ottimizzate per essere integrate con le macchine utensili con cui dovranno interagire come presse, piegatrici, saldatrici laser ecc.

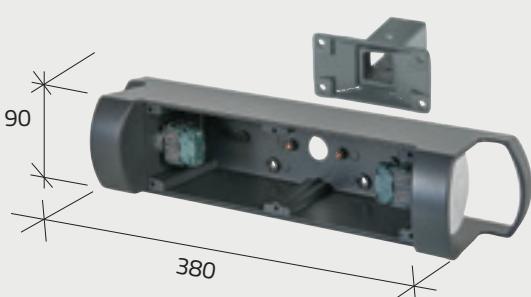
COLORAZIONE

La scelta delle colorazioni in toni di grigio e dell'alluminio satinato permettono l'armonizzazione estetica con gli apparati di destinazione; la colorazione in toni neutri evita un eccessivo impatto cromatico che può andare anche a discapito della concentrazione degli operatori alle macchine.

DIMENSIONI E FORMA

Nel progettare il nuovo comando a due mani è stata valutata la necessità di installazione in spazi ridotti e quindi ne è nato un prodotto con dimensioni 380 x 90 x 90 mm e con un notevole volume interno.

La forma ergonomica del nuovo comando a due mani conferisce un notevole comfort durante l'utilizzo; la dimensione della sezione di appoggio del palmo permette una contrapposizione tra il pollice e le altre dita facilitando l'azionamento dei pulsanti.



MODULAR SYSTEM FOR P/B PANELS

The new modular system for push-button panels, specifically designed by New Elfin to meet specific market and working needs. This modular system for industrial automation applications offers several components that enable you to configure many of the frames designed for machine-tools, like presses, folding machines, laser welding machines, etc.

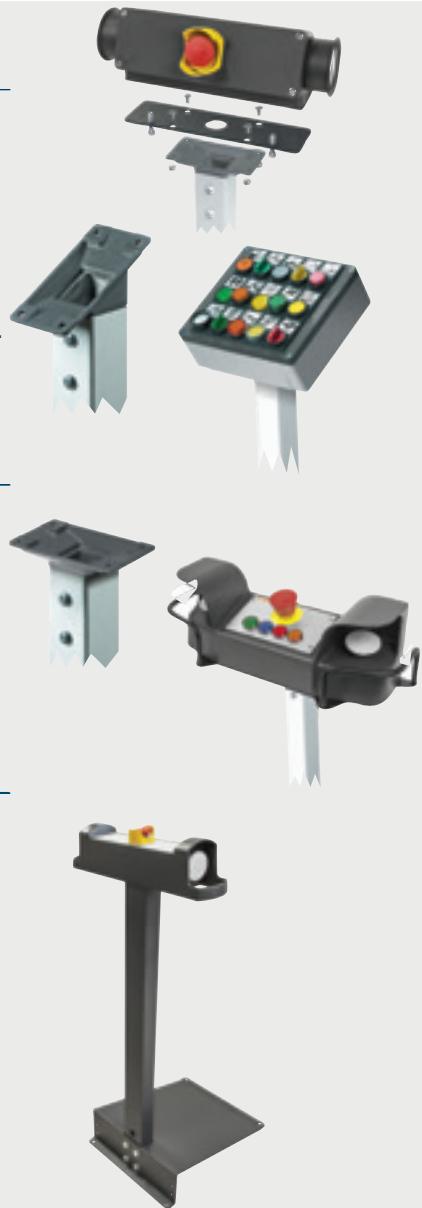
COLORATION

The range of colours available, from grey to satin aluminium, enhance the aesthetic integration with existing equipment, while the use of neutral shades reduces the chromatic impact that could distract machine operators during work.

DIMENSIONS AND SHAPE

The new two-hand control, device designed to be installed in small areas, has dimensions of 380 x 90 x 90 mm and very large internal volume.

Its ergonomic shape enhances comfort during use, while the size of the palm resting area enables operators to easily grasp the buttons between the thumb and fingers.



Pulsantiera a due mani

Two-hand control device

SISTEMA MODULARE PER PULSANTIERE

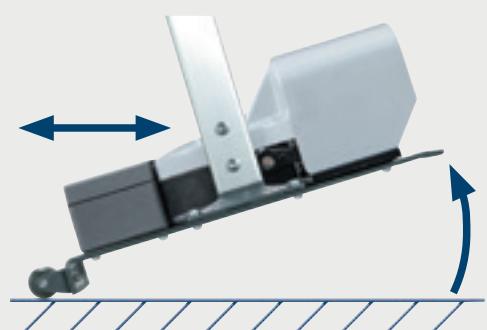
L'estrema modularità del sistema permette di configurare anche soluzioni a braccio di sostegno dove è possibile applicare diversi componenti specifici. La forma particolare dei giunti garantisce solidità e rigidità alla struttura, e le dimensioni ridotte permettono di allestire svariate versioni con la maggior parte dei contenitori. L'asola del giunto ortogonale permette il suo inserimento nella colonna anche dopo una eventuale posa di cavi elettrici.

KIT DI RUOTE

Il kit di ruote risolve razionalmente il problema della mobilità senza compromettere la solidità di appoggio della base. La base è predisposta per ricevere tutte le possibili configurazioni di applicazioni fisse o mobili.

KIT DI CONNESSIONE

Il kit di connessione risolve efficacemente tutti i problemi di cablaggio tra i numerosi possibili componenti.



MODULAR SYSTEM FOR P/B PANELS

Being highly modular, the system can also be fitted with a supporting bracket, which can be used to hold a wide range of specific components.

The truncated conical shape of the coupling confers solidity and rigidity to the frame. The system can in fact be easily combined with most of containers.

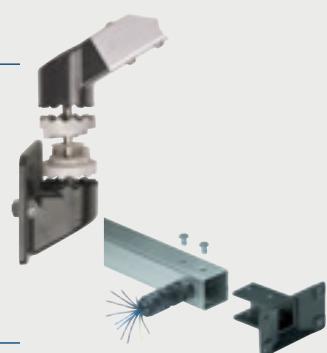
The straight coupling slot enables the system to be inserted into a column even after the cable laying.



CASTOR KIT

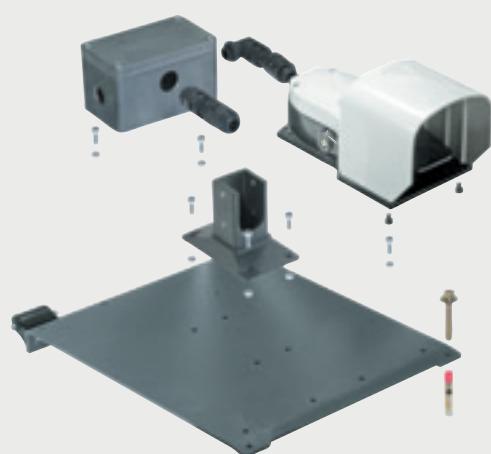
The castor kit offers a rational solution to the problem of mobility without affecting the overall stability of the base.

The base can also be joined to several fixed or mobile elements in an unlimited range of configurations.

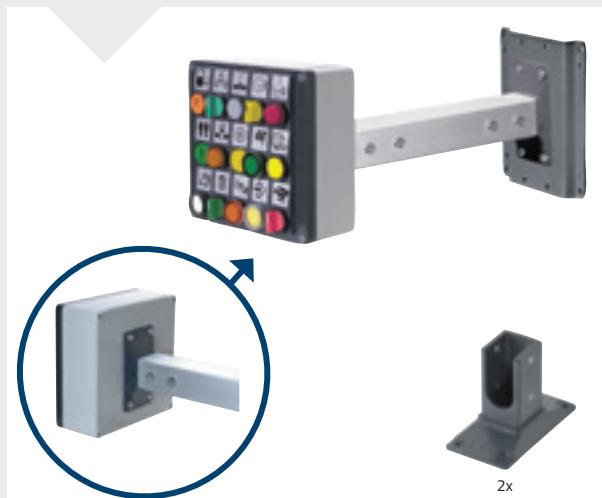


CONNECTION KIT

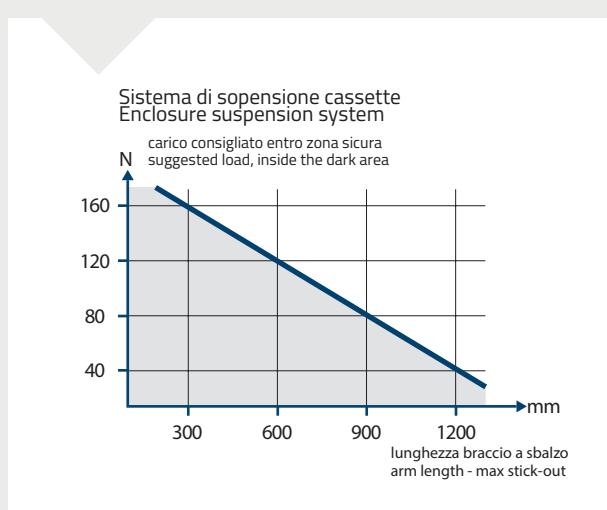
The exclusive connection kit helps you to effectively wire up all the components installed on the base.



Esempi di realizzazione Mounting examples

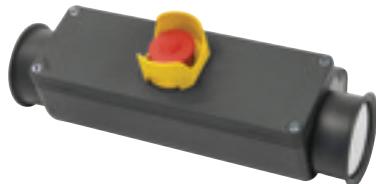


Esempi di realizzazione Mounting examples



Dispositivi di comando a due mani Two-hand control devices

Pulsantiera ergonomica a due mani in alluminio
Ergonomic aluminium two-hand control device



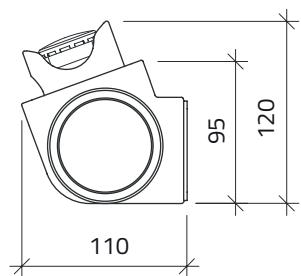
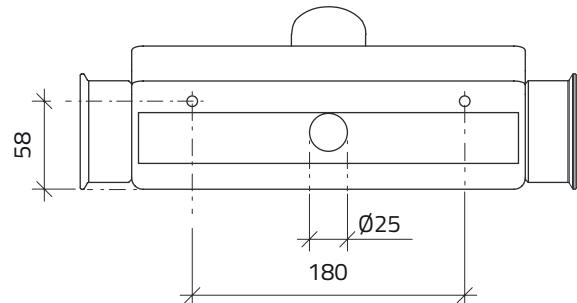
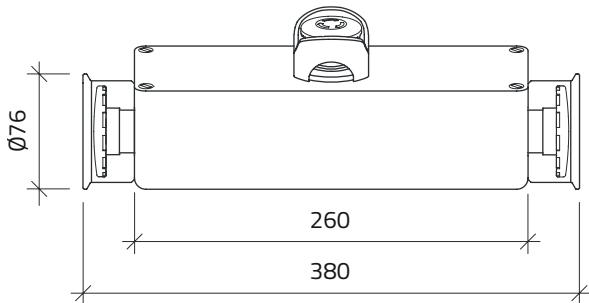
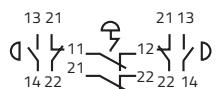
● RAL 7016

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060CL2MA



Dispositivi di comando a due mani Two-hand control devices

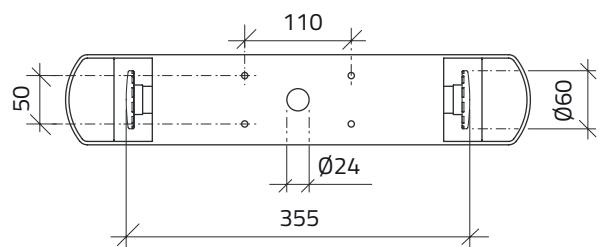
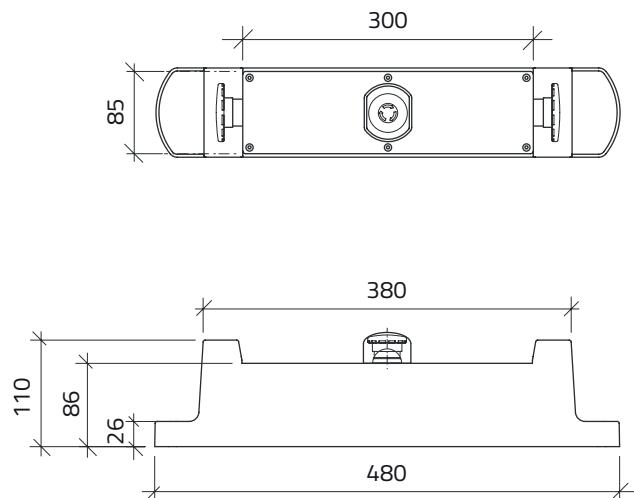
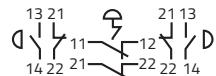
Pulsantiera a due mani in alluminio
Aluminium two-hand control device



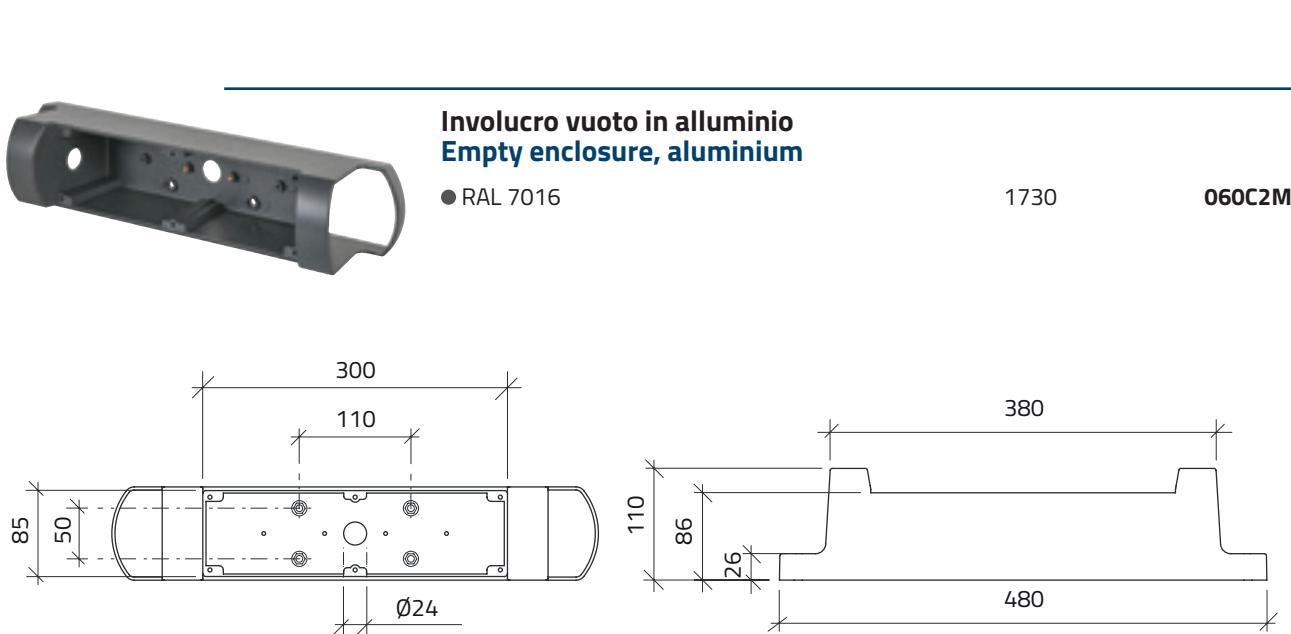
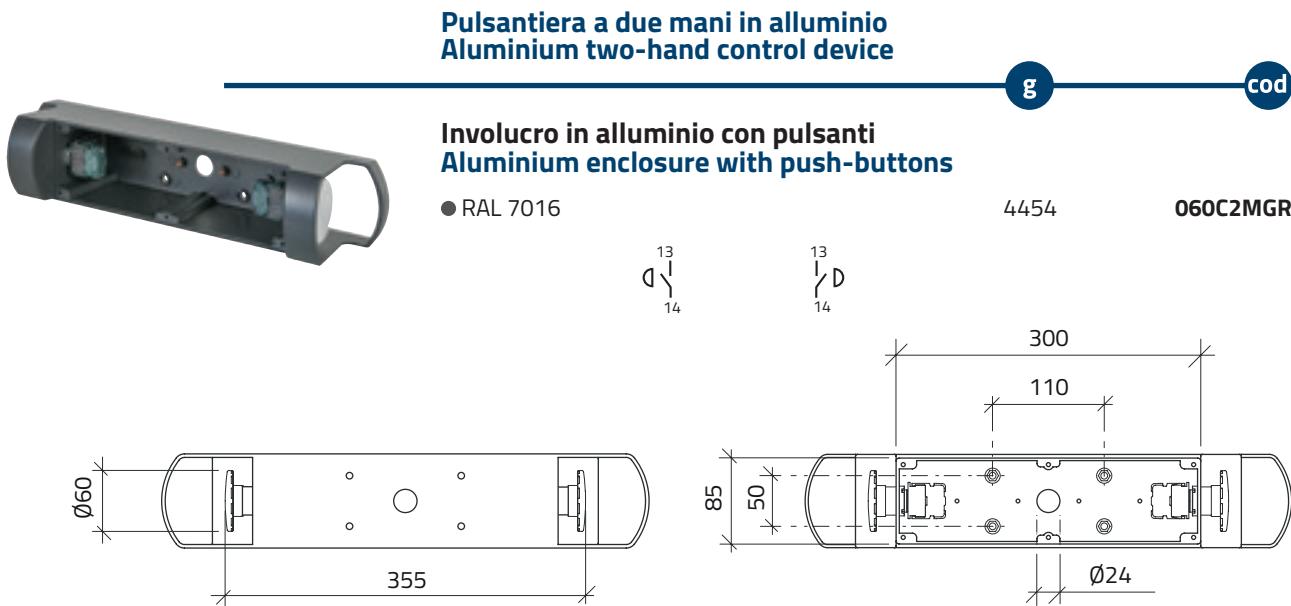
● RAL 7016

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060C2MA



Dispositivi di comando a due mani Two-hand control devices



Dispositivi di comando a due mani

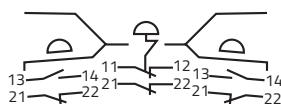
Two-hand control devices

Pulsantiera a due mani in alluminio Aluminium two-hand control device



Per personalizzazioni con altri operatori ed elementi di contatto
vedi sezione "020 Comando e segnalazione SM2 022"
For customization with other operators or contact blocks,
refer to section 020 "Command and signalling SM2 022".

● RAL 7016



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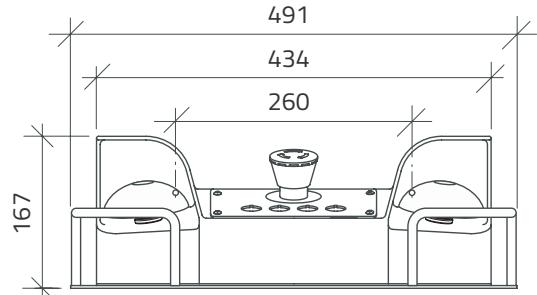
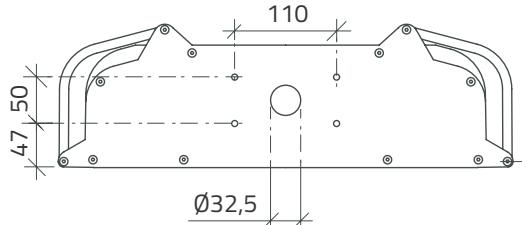
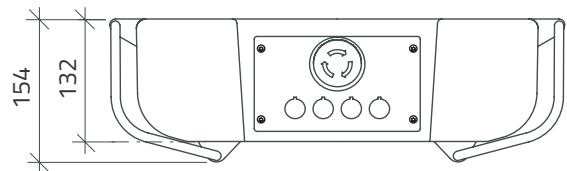
4650

060P2MA

Viti chiusura ermetica / Sealing screws

0,3

060VCE



Dispositivi di comando a due mani Two-hand control devices

Pulsantiera a due mani in alluminio
Aluminium two-hand control device

g cod

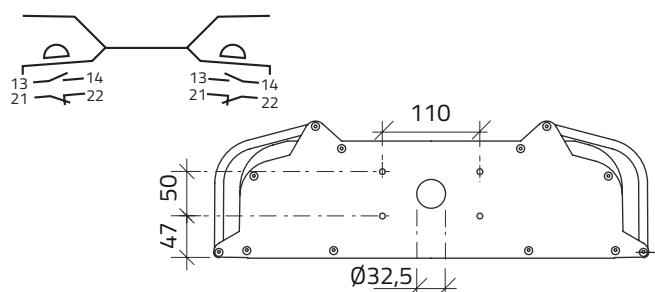
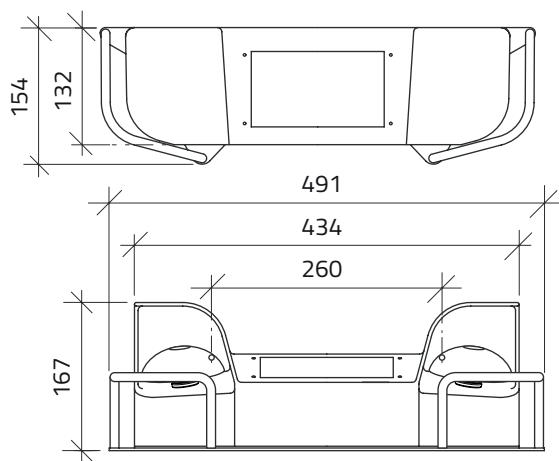


Involucro in alluminio con pulsanti
Aluminium enclosure with push-buttons

● RAL 7016

4,98

060P2MGR

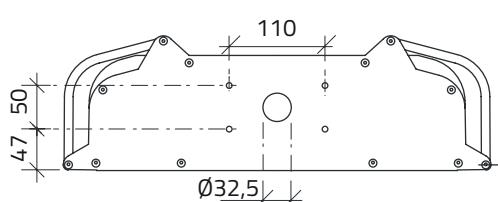
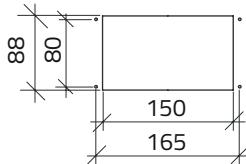
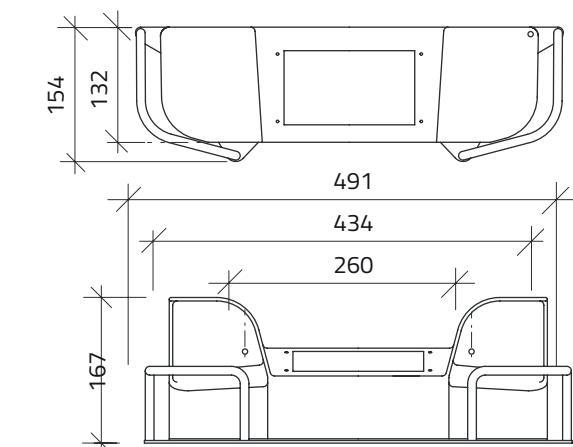


Involucro vuoto in alluminio
Empty enclosure, aluminium

● RAL 7016

4364

060P2M



Dispositivi di comando a due mani

Two-hand control devices

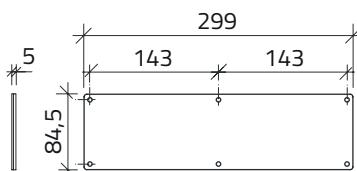
Piastra superiore / Upper plate



Per articolo 060C2MGR / For item code 060C2MGR

150

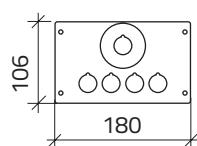
060PC



Piastre superiore / Upper plate



Per articolo 060P2MGR / For item code 060P2MGR

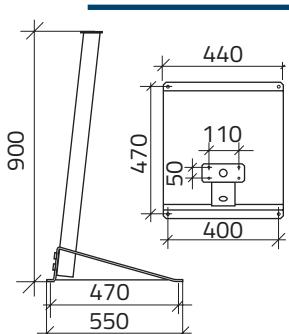
Piastra forata / Drilled plate
Piastra non forata / Undrilled plate95
100060PP2MF
060PP2MN

Stativo per comando bimanuale Stand for two-hand control devices

Per articolo 060CL2MA - 060C2MA - 060P2MA
For item code 060CL2MA - 060C2MA - 060P2MA

11,85

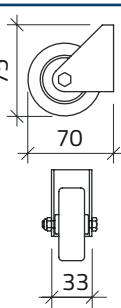
060SP2M



Kit ruote per stativo / Castor kit for stand

290

060SMS



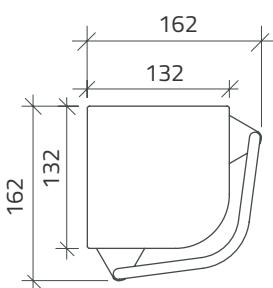
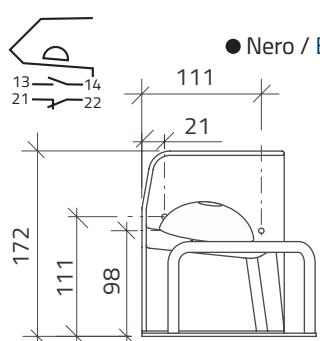
Pulsantiera singola per comando a due mani Single push-button for two-hand control unit



● Nero / Black

1,6

060MP2GR



Dispositivi di comando a due mani

Two-hand control devices

■ DEFINIZIONE DI COMANDO A DUE MANI (UNI EN 292/1 PUNTO 3.23.4)

3.23.4

Comando a due mani: comando ad azione mantenuta che richiede almeno l'azionamento simultaneo dei due comandi manuali (attuatori) per avviare e mantenere il funzionamento della macchina o degli elementi di quest'ultima, assicurando così protezione alla persona che li aziona.

■ CLASSIFICAZIONE DEI COMANDI A DUE MANI (CEI EN 60204.1 PUNTO 9.2.5.7)

9.2.5.7

Comandi a due mani: esistono tre tipi di comandi a due mani, la cui selezione dipende dalla valutazione dei rischi. Essi devono avere le caratteristiche seguenti:

TIPO 1: questo tipo richiede:

- la fornitura di due dispositivi di comando dell'attivazione che necessitano l'uso contemporaneo delle due mani;
- l'attivazione continua durante le situazioni pericolose;
- l'interruzione dell'attivazione della macchina al rilascio di uno qualsiasi dei dispositivi di comando dell'attivazione, se le condizioni rimangono pericolose.

TIPO 2: comando di tipo 1 che richiede il rilascio di entrambi i dispositivi di comando dell'attivazione, prima che il funzionamento della macchina possa ripartire.

TIPO 3: comando di tipo 2 che richiede un'attivazione contemporanea dei dispositivi di comando dell'attivazione come segue:

- deve essere necessario fare funzionare i dispositivi di comando dell'attivazione entro un determinato tempo limite minore o uguale a 0,5 s (Appendice B); e
- quando viene superato il tempo limite, entrambi i dispositivi di comando dell'attivazione devono essere rilasciati prima che possa essere iniziata una nuova operazione.

■ DEFINITION OF TWO HAND CONTROL (UNI EN 292/1 ITEM 3.23.4)

3.23.4

Two hand control: maintained action control which requires at least the simultaneous activation of the two manual controls (actuators) to start up and continue running the machine and its elements, thus ensuring that operators are protected.

■ CLASSIFICATION OF TWO HAND CONTROLS (CEI EN 60204.1 ITEM 9.2.5.7)

9.2.5.7

Two hand controls: there are three types of two hand control, the selection of which depends on risk assessment. They must have the following features:

TYPE 1: this type must have:

- the supply of two activation control devices which require the simultaneous use of both hands;
- constant activation during dangerous situations;
- machine cut-off when any activation control is released, if conditions continue to be dangerous.

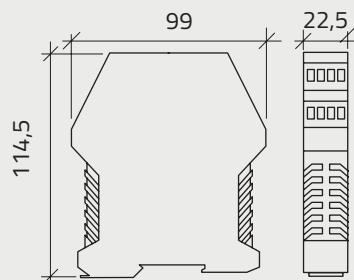
TYPE 2: type 1 control which requires the release of both activation control devices for the machine to start running again.

TYPE 3: type 2 control which requires the simultaneous activation of the activation control devices as follows:

- it must be possible to engage the activation control devices within a set time equal to or less than 0.5 seconds (Appendix B); and
- when the time limit is up, both activation control devices must be released before a new operation can begin.



Modulo di contemporaneità Simultaneous action controller



Modulo di contemporaneità / Simultaneous action controller

Modulo / Controller

295

060MCP2M

Il modulo di contemporaneità 060MCP2M è un componente di sicurezza adibito al controllo della simultaneità di due operatori, protetti da azioni involontarie, utilizzati congiuntamente.

Il modulo di contemporaneità 060MCP2M rientra nella categoria di Tipo III C, poiché oltre che a rispondere ai requisiti della norma UNI EN 574, ha un circuito di retroazione, che attribuisce al modulo una funzione di autocontrollo (categoria 4) delle eventuali anomalie (cortocircuiti o inceppamenti) sia degli attuatori e, se collegati in serie, dei contatti ausiliari di apparecchi di manovra.

The 060MCP2M relay is a safety device for controlling the simultaneous action of two operators, protected from accidental actions, used together. The 060MCP2M relay belongs to category III C, due to the fact that, as well as satisfying UNI EN 574, it has a retroaction circuit which attributes a self-control function to the module (category 4) for any faults with the actuators (short circuits or jamming) and, if connected in series, with the auxiliary contacts of manoeuvring equipment.

Caratteristiche tecniche

Peso	190 g
Temperatura di funzionamento	0...+55 °C
Temperatura di stoccaggio	-25...+70
Grado di protezione (IEC60529)	IP20
Grado di contaminazione	2
Montaggio	Guida DIN Standard 35mm
Tipo di connessione	Terminali a vite
Tensione di alimentazione	24±10% (AC 50 - 60 Hz) V AC/DC
Potenza assorbita	2 VA / 2W
Sincronizzazione tra gli ingressi	< 500 ms
Terminali uscite sicure	13-14, 23-24, 31-32
Tensione sulle uscite sicure	250 V AC
Corrente sulle uscite sicure	6 A (MAX)
Potenza sulle uscite sicure	1500 VA
Fusibili esterni sulle uscite	6 A rapido
Categoria di utilizzo (uscite sicure) secondo EN 60947-5-1	AC-1 3A, 250V / AC-15 1A, 250V / AC-1 3A, 24V / AC-15 1A, 24V DC-13 1,8A, 24V
Resistenza alle vibrazioni	in accordo con EN 60068-2-6
Vita elettrica	1 x 10 ⁵ (2 A, 24 V DC)
Vita meccanica	10 ⁷
Conformità EMC categoria	CEI EN 61000-6-2, CEI EN 61000-6-3, CEI EN 55011:1999
Conformità alle norme	EN 574, EN 60204-1, EN954-1, CEI EN 50178:1999
Categoria di sicurezza	cat. 4, PL "E" secondo norma EN ISO 13849-1: 2008 cat. III c secondo EN 574:1999 + A1:2008
Omologazioni	c UL us Listed

Technical data

Weight	206,5 g
Operation temperature	0...+55 °C
Storage temperature	-25...+70
Degree of protection (IEC60529)	IP20
Degree of pollution	2
Mounting	Standard DIN rail 35mm
Connections type	With screw
Power supply	24±10% (AC 50 - 60 Hz) V AC/DC
Power consumption	2 VA / 2W
Button contemporaneity	< 500 ms
Safe outputs terminals	13-14, 23-24, 31-32
Safe outputs voltage	250 V AC
Safe outputs current	6 A (MAX)
Safe outputs power	1500 VA
Output external fuses	6 A fast-blow
Utilization category (safe outputs) in according to EN 60947-5-1	AC-1 3A, 250V / AC-15 1A, 250V / AC-1 3A, 24V / AC-15 1A, 24V DC-13 1,8A, 24V
Vibration resistance	in according with EN 60068-2-6
Electrical life	1 x 10 ⁵ (2 A, 24 V DC)
Mechanical life	10 ⁷
EMC conformity in according to	CEI EN 61000-6-2, CEI EN 61000-6-3, CEI EN 55011:1999
Compliance with standards	EN 574, EN 60204-1, EN954-1, CEI EN 50178:1999
Safety category	cat. 4, PL "E" according to standard EN ISO 13849-1: 2008 cat. III c according to EN 574:1999 + A1:2008
Approval	c UL us Listed

Interruttori a pedale

Foot switches



Interruttori a pedale in termoplastico Thermoplastic foot switches

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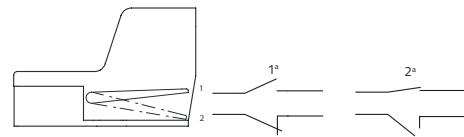
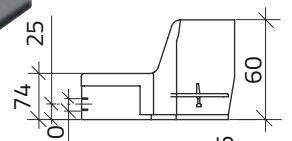
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2 posizioni (1 microinterruttore) con leva di sicurezza
2 positions (1 microswitch) with safety lever

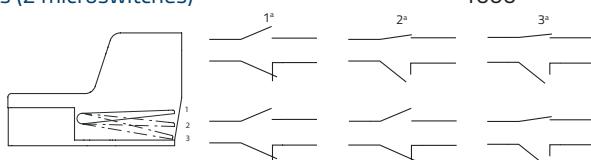
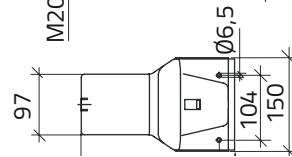
● Grigio / Grey

900

060PPLT11



3 posizioni (2 micro interruttori)
3 positions (2 microswitches)



1000

060PP3PT22



Senza coperchio / Without cover

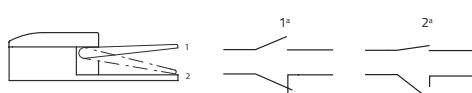
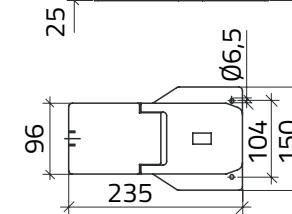
2 posizioni (1 microinterruttore)

2 positions (1 microswitch)

● Rosso/ Red

800

060PT11



Interruttori a pedale in alluminio / Aluminium foot switches

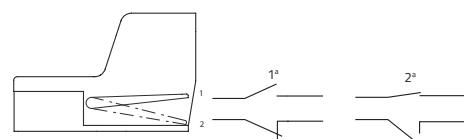
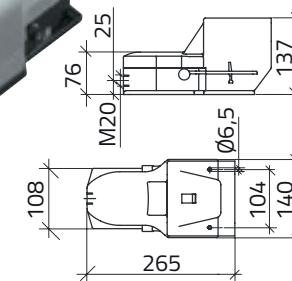
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2 posizioni (1 microinterruttore) con leva di sicurezza
2 positions (1 microswitch) with safety lever

1705

060PPLA11



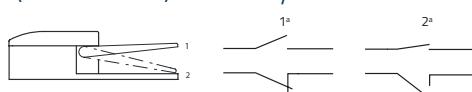
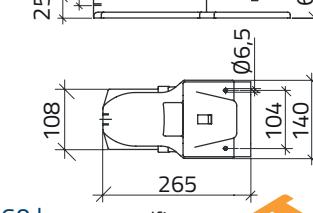
Senza coperchio / Without cover

2 posizioni (1 microinterruttore) con leva di sicurezza

2 positions (1 microswitch) with safety lever

1400

060PA11



Interruttori a pedale

Foot switches

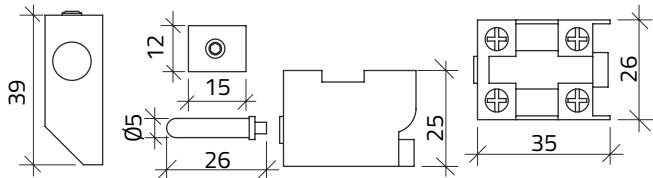


Accessori per comando a pedale / Foot switch accessories

Kit 2° micro / Kit for 2nd microswitch
Ricambio micro / Spare microswitch

40
20

060KM11
060M11



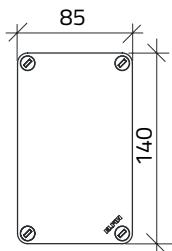
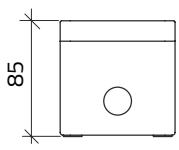
Kit di connessione interruttori a pedale

Foot switch connection kit

Containitore / Enclosure 85x140 mm

780

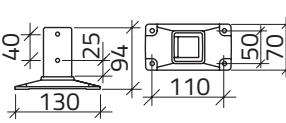
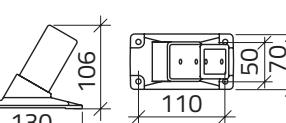
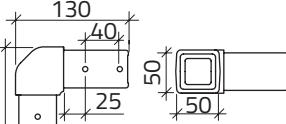
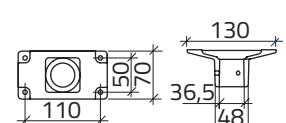
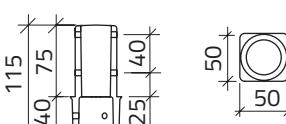
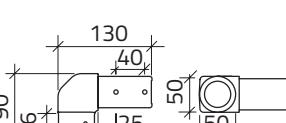
060KC



Sistema di sospensione modulare per automazione

Modular suspension system for enclosures

Giunti / Joints

		Ortogonale / Orthogonal	315	060GCO
		Inclinato / Oblique	410	060GCI
		Angolare 90° / Angle 90°	550	060GCA
		Girevole / Swivel	480	060GRO
		Girevole assiale / Swivel, axial	280	060GRD
		Girevole 90° / Swivel 90°	480	060GRA
		Bussola girevole interno foro Ø 23 Swivel bushing, bore Ø 23	280	060GSR

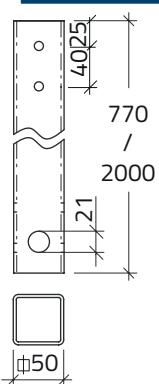


Sistema di sospensione modulare per automazione

Modular suspension system for enclosures



Colonne / Columns



Lunghezza / Length mm 770

1185

060C8

Lunghezza / Length mm 2000

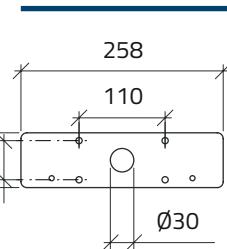
senza fori / without holes

2790

060C2000

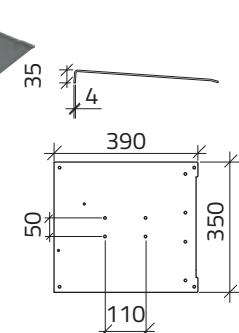
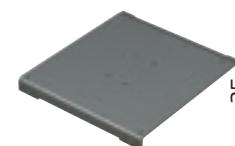


Piastre / Plates

Piastra accoppiamento pulsantiera inclinata
Coupling plate for sloped enclosure

450

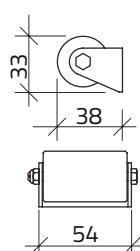
060PAP



Piastra base colonna / Column base plate

4600

060BC

Kit di ruote per piastra base colonna
Castor kit for column base plate

200

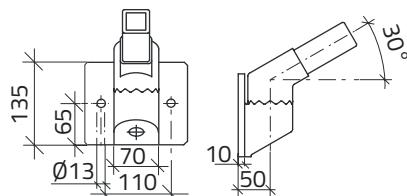
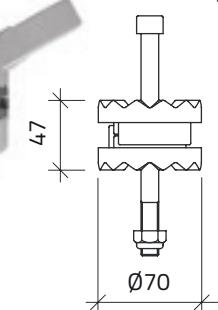
060KR

Sistema di sospensione modulare per automazione

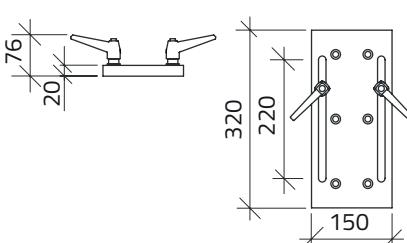
Modular suspension system for enclosures

**Bracci / Arms**

	g	cod
Lunghezza / Length mm 260	360	060B2
Lunghezza / Length mm 550	780	060B5
Lunghezza / Length mm 840	1160	060B8
Lunghezza / Length mm 2000 senza fori / undrilled	2790	060C2000
A 500 B 750 C 1000		
154		
+100 -100		
A 355 B 495 C 640		
120		
120		
1000		
120		
120		
491		
434		
260		
163		

**Supporto per braccio / Arm support**1800 **060SB****Snodo per braccio/ Articulated joint for arm** 530**060SRBO****Piastra di regolazione/ Adjustment plate**

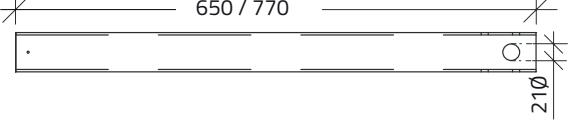
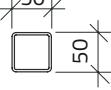
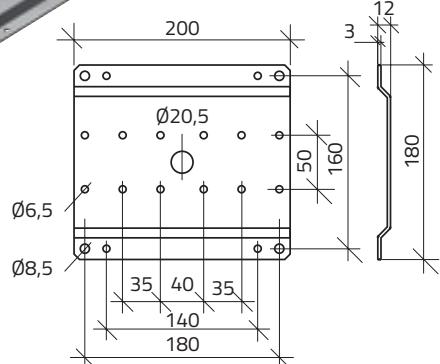
2,420

060PRBO

Pulpito di emergenza

Emergency stand

Per selezione componenti aggiuntivi vedi pagina 17-18 / For additional components see pages 17-18

	Supporto operatore / Operator support base	67	060SOG
	Protezione ad anello / Ring-shaped protection	150	020SE
Colonne per supporto operatore Columns for operator support			
	Lunghezza / Length mm 650	905	060C6
	Lunghezza / Length mm 770	905	060C8E
	650 / 770		
			
Piastra / Plate			
	Piastra base colonna / Column base plate	836	060PAC
			



060

PULSANTI A PALMO PALM SWITCHES

060



Pulsanti a palmo

Palm switches

G

Gli azionatori a palmo, per il comando e controllo di circuiti elettrici alimentati sia in CC che in CA, sono progettati per **utilizzi energici o d'urgenza**.

Il **design particolarmente accurato ed ergonomico** ne permette l'utilizzo anche avendo guanti da lavoro oppure con altre parti del corpo quali: gomito, spalla, ginocchio, piede. Inoltre la **linearità senza soluzione di continuità** evita che vi si possano impigliare indumenti, capelli, o elementi estranei. Realizzati in **resina termoplastica antiurto**, con componenti metallici in acciaio inox, possono essere installati in ambienti con atmosfera particolarmente umida o corrosiva e dove sussiste il pericolo di scariche elettrostatiche. Nella **versione luminosa** la lampada è posta su ammortizzatori per salvaguardarla in caso di utilizzi particolarmente gravosi e con forti vibrazioni. Disponibile in due varianti: con tasto bombato o a fungo avvolgente, luminoso o no, con funzionamento momentaneo o ad aggancio.

In fine la grande superficie dei tasti consente di stampare complesse informazioni.

P

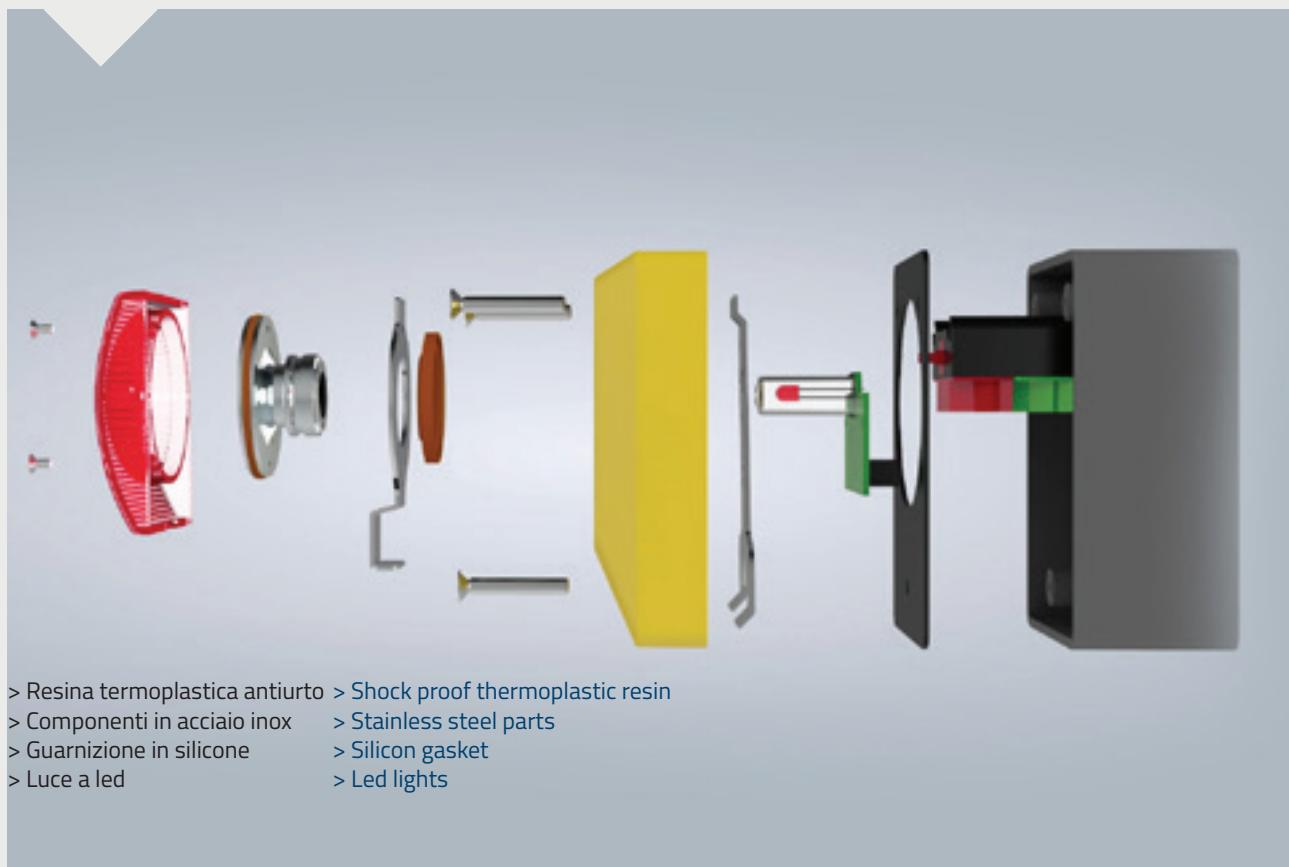
Palm switches for the command and control of both DC and AC circuits are designed for **energetic or emergency use**.

The particularly **careful and ergonomic design** allows them to be pushed even when wearing work gloves or using other parts of the body such as elbow, shoulder, knee and foot.

Moreover its **dome shape** prevents clothing, hair or other elements from being caught up. Made from **shockproof thermoplastic resin**, with stainless steel parts, they can be installed in particularly damp or corrosive atmospheric environments where there is the risk of electrostatic discharge. The **illuminated palm switches** are provided with a lamp fitted onto shock absorbers to safeguard it when used in particularly severe environments or with strong vibrations.

They are available in two models: with dome or mushroom buttons, normal or illuminated, momentary or latching.

Futhermore the big button surface allows complex symbols to be printed on.



- | | |
|---------------------------------|-----------------------------------|
| > Resina termoplastica antiurto | > Shock proof thermoplastic resin |
| > Componenti in acciaio inox | > Stainless steel parts |
| > Guarnizione in silicone | > Silicon gasket |
| > Luce a led | > Led lights |



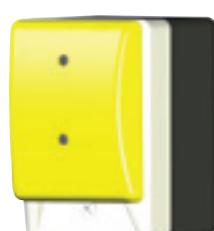
Pulsanti a palmo Palm switches



Con contenitore
With enclosure



Ad incasso
With enclosure



Tasto a fungo
Mushroom button



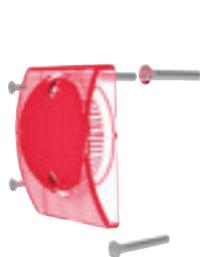
Tasto bombato
Dome button



Aggancio meccanico
Mechanical latching



Simboli
Symbol



Montaggio a parete
Wall mounting



Forma a piramide
Pyramid shaped

Forma bombata
Dome shaped



Pulsanti a palmo

Palm switches

Caratteristiche tecniche

Rispondenza alle norme	EN-IEC60947-1, EN-IEC60947-5-1 UNI EN 13850, UNI EN ISO 12100 EN-IEC60947-5-5 UNI CEI EN 45545/2, CEI EN 61373																		
Omologazioni	CE, (UL, CSA solo elementi di contatto 030FA-030FAA / 030FC-030FCF)																		
Limiti di temperatura	Funzionamento $\geq -30^{\circ}\text{C} \leq +120^{\circ}\text{C}$ Stoccaggio $\geq -40^{\circ}\text{C} \leq +125^{\circ}\text{C}$																		
Grado di protezione	IP66-IP69K (EN-IEC60529-DIN40050)																		
Protezione contro gli impatti	IK08 (EN-IEC62262)																		
Materiale custodia	PA Poliammide VO																		
Materiale guarnizione	Gomma-sughero																		
Materiale viti custodia	Acciaio inox AISI 304																		
Coppia di serraggio	Viti custodia $1 \pm 2,5 \text{ Nm} (8,8 \pm 22,1 \text{ Lb-in})$ Viti terminali $0,8 \pm 1,2 \text{ Nm} (7,1 \pm 10,6 \text{ Lb-in})$																		
Durata meccanica	3 milioni di manovre																		
Elementi di contatto	NO-NC inclusi apertura positiva del contatto NC secondo EN, IEC 60947-5-1																		
Funzionamento contatti	Azionamento lento con autopulitura e strisciamento delle pastiglie																		
Materiale contatti	Pastiglie in Ag 1000 / 1000																		
Tensione nominale di isolamento	690 V secondo : EN-IEC 60947-1																		
Corrente nominale termica	Ith 10A																		
Categorie nominali di impiego	AC15-DC13 secondo EN-IEC60947-5-1 A600 - P300 secondo UL508																		
<table style="width: 100%; text-align: center;"> <tr> <td style="width: 50%;">AC</td> <td style="width: 50%;">DC</td> </tr> <tr> <td>Ue V</td> <td>Ue V</td> </tr> <tr> <td>24</td> <td>24</td> </tr> <tr> <td>110</td> <td>110</td> </tr> <tr> <td>230</td> <td>230</td> </tr> <tr> <td>le A</td> <td>le A</td> </tr> <tr> <td>10</td> <td>5</td> </tr> <tr> <td>6</td> <td>1,1</td> </tr> <tr> <td>3</td> <td>0,55</td> </tr> </table>		AC	DC	Ue V	Ue V	24	24	110	110	230	230	le A	le A	10	5	6	1,1	3	0,55
AC	DC																		
Ue V	Ue V																		
24	24																		
110	110																		
230	230																		
le A	le A																		
10	5																		
6	1,1																		
3	0,55																		

Versioni luminose

Led incluso con alimentazione 24AC-DC

Dima di foratura

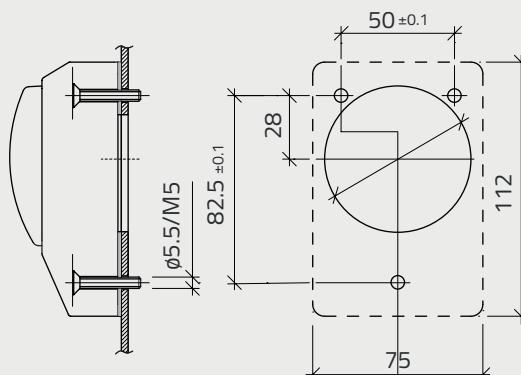
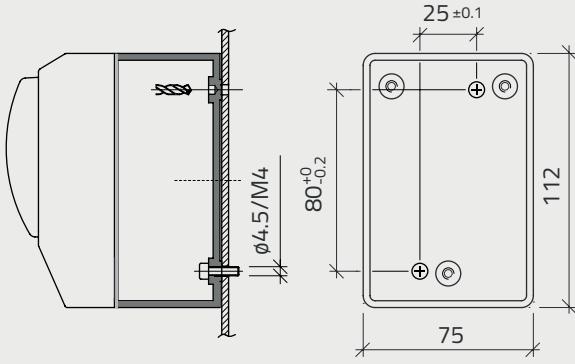
Drilling template

Con custodia

With case

A incasso

Wall mount



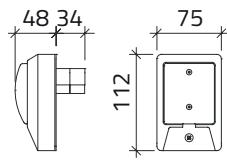
Pulsanti a palmo normali

Normal palm switches

Pulsanti normali Normal push-buttons

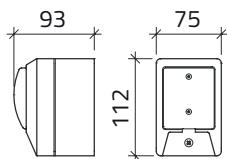
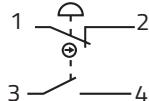
g

cod



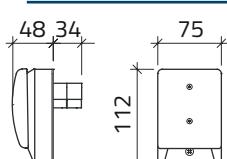
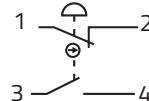
Tasto bombato senza custodia / Dome button without enclosure

● Nero / Black	204	060APTN
● Verde / Green	204	060APTV
● Giallo / Yellow	204	060APTG
● Blu / Blue	204	060APTBL



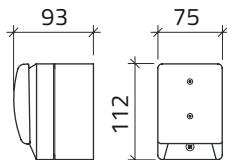
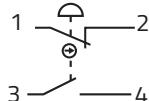
Tasto bombato con custodia / Dome button with enclosure

● Nero / Black	319	060APTNC
● Verde / Green	319	060APTV
● Giallo / Yellow	319	060APTG
● Blu / Blue	319	060APTBL



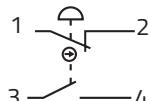
Tasto a fungo senza custodia / Mushroom button without enclosure

● Nero / Black	216	060APPN
● Verde / Green	216	060APPV
● Giallo / Yellow	216	060APFG
● Blu / Blue	216	060APFBL



Tasto a fungo con custodia / Mushroom button with enclosure

● Nero / Black	331	060APFNC
● Verde / Green	331	060APFVC
● Giallo / Yellow	331	060APFGC
● Blu / Blue	331	060APFBLC

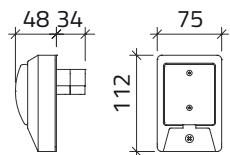


060

Pulsanti a palmo luminosi Illuminated palm switches

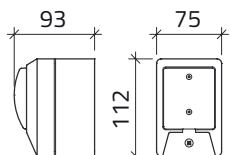
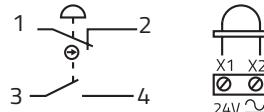
Pulsanti a palmo luminosi Illuminated palm switches

g cod



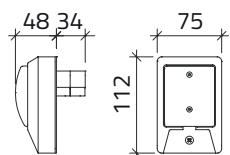
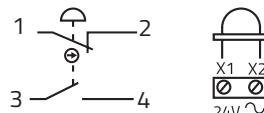
Tasto bombato senza custodia / Dome button without enclosure

● Verde / Green	204	060APTLV
● Giallo / Yellow	204	060APTLG
● Blu / Blue	204	060APTLBL
○ Bianco / White	204	060APTLB



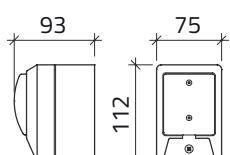
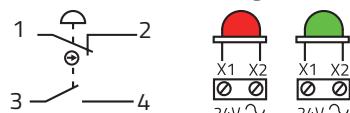
Tasto bombato con custodia / Dome button with enclosure

● Verde / Green	319	060APTLVC
● Giallo / Yellow	319	060APTLGC
● Blu / Blue	319	060APTLBLC
○ Bianco / White	319	060APTLBC



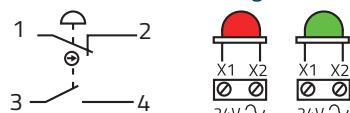
Tasto bombato senza custodia / Dome button without enclosure

● ● Rosso-verde / Red-green	204	060APTLRV
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Tasto bombato con custodia / Dome button with enclosure

● ● Rosso-verde / Red-green	319	060APTLRVC
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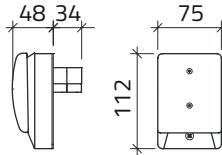


Pulsanti a palmo luminosi Illuminated palm switches

Pulsanti a palmo luminosi Illuminated palm switches

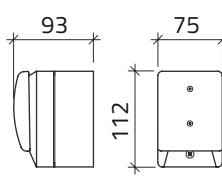
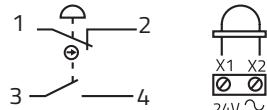
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cod



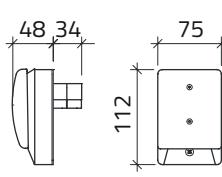
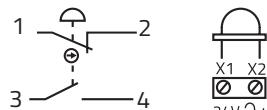
Tasto a fungo senza custodia / Mushroom button without enclosure

● Verde / Green	216	060APFLV
● Giallo / Yellow	216	060APFLG
● Blu / Blue	216	060APFLBL
○ Bianco / White	216	060APFLB



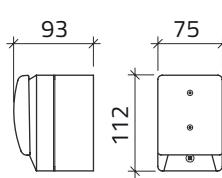
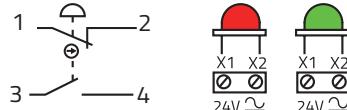
Tasto a fungo con custodia / Mushroom button with enclosure

● Verde / Green	331	060APFLVC
● Giallo / Yellow	331	060APFLGC
● Blu / Blue	331	060APFLBLC
○ Bianco / White	331	060APFLBC



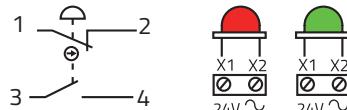
Tasto a fungo senza custodia / Mushroom button without enclosure

● Rosso-verde / Red-green	216	060APFLRV
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Tasto a fungo con custodia / Mushroom button with enclosure

● Rosso-verde / Red-green	331	060APFLRVC
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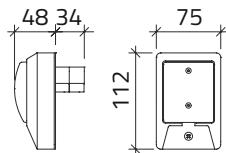


Pulsanti di emergenza a palmo momentanei normali

Momentary normal emergency stop palm switches

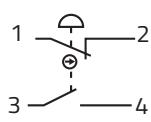
**Pulsanti di emergenza momentanei normali
Normal momentary emergency stop push-buttons**

g cod



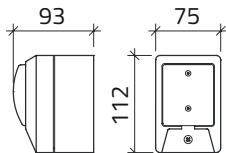
Tasto bombato senza custodia / Dome button without enclosure

● Rosso / Red



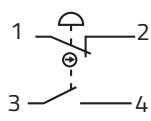
204

060APTR



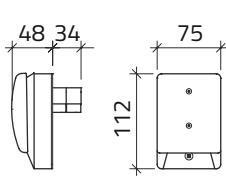
Tasto bombato con custodia / Dome button with enclosure

● Rosso / Red



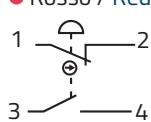
319

060APTRC



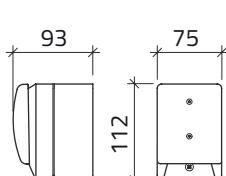
Tasto a fungo senza custodia / Mushroom button without enclosure

● Rosso / Red



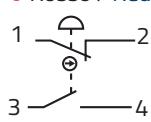
216

060APFR



Tasto a fungo con custodia / Mushroom button with enclosure

● Rosso / Red



331

060APFRC

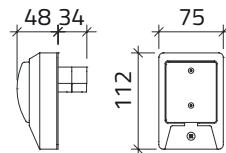


Pulsanti di emergenza a palmo momentanei luminosi Momentary illuminated emergency stop palm switches

Pulsanti di emergenza a palmo luminosi Illuminated emergency stop palm switches

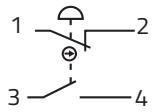
g

cod



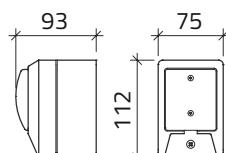
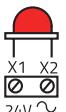
Tasto bombato senza custodia / Dome button without enclosure

● Rosso / Red



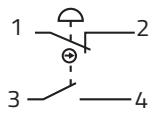
204

060APTLR



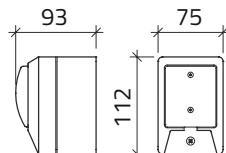
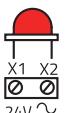
Tasto bombato con custodia / Dome button with enclosure

● Rosso / Red



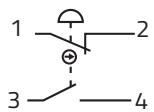
319

060APTLRC



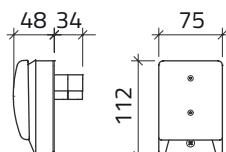
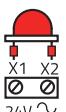
Tasto bombato con custodia luminosa Dome button with illuminated enclosure

● Rosso / Red



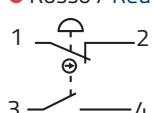
319

060APTLRCL



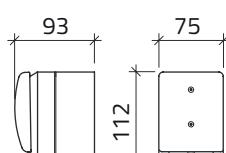
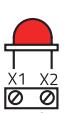
Tasto a fungo con custodia / Mushroom button without enclosure

● Rosso / Red



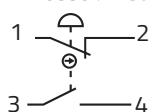
216

060APFLR



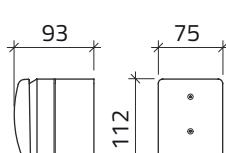
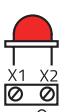
Tasto a fungo con custodia / Mushroom button with enclosure

● Rosso / Red



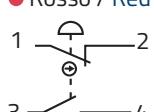
331

060APFLRC



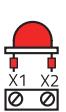
Tasto a fungo con custodia luminosa Mushroom button with illuminated enclosure

● Rosso / Red



331

060APFLRCL

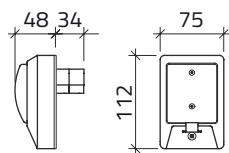


Pulsanti di emergenza a palmo ad aggancio normali

Latching normal emergency stop palm switches

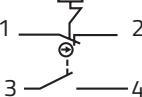
Pulsanti di emergenza ad aggancio Latching emergency stop push-buttons

g cod



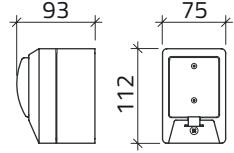
Tasto bombato senza custodia / Dome button without enclosure

● Rosso / Red



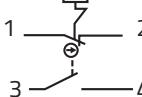
229

060APATR



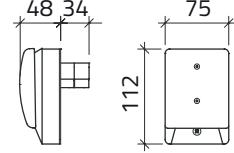
Tasto bombato con custodia / Dome button with enclosure

● Rosso / Red



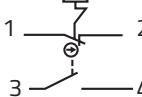
344

060APATRC



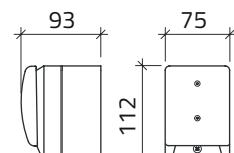
Tasto a fungo senza custodia / Mushroom button without enclosure

● Rosso / Red



240

060APAFR



Tasto a fungo con custodia / Mushroom button with enclosure

● Rosso / Red



356

060APAFRC

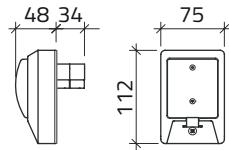


Pulsanti di emergenza a palmo ad aggancio luminosi Illuminated latching emergency stop palm switches

Pulsanti di emergenza a palmo ad aggancio luminosi Illuminated latching emergency stop palm switches

g

cod



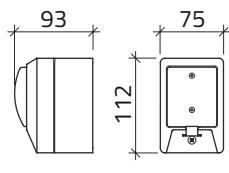
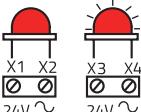
Tasto bombato senza custodia/ Dome button without enclosure

● Rosso / Red



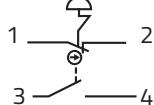
229

060APATLR



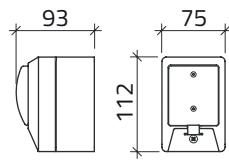
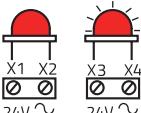
Tasto bombato con custodia / Dome button with enclosure

● Rosso / Red



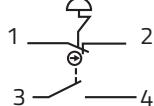
344

060APATLRC



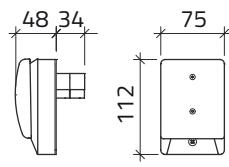
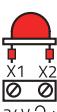
Tasto bombato con custodia luminosa Dome button with illuminated enclosure

● Rosso / Red



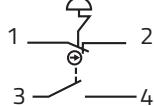
344

060APATLRC



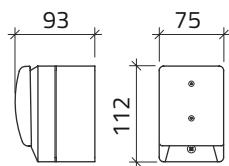
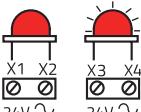
Tasto a fungo senza custodia/ Mushroom button without enclosure

● Rosso / Red



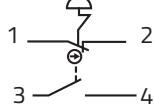
240

060APAFLR



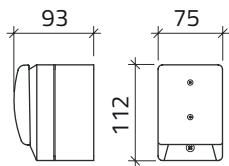
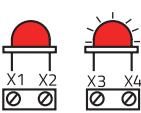
Tasto a fungo con custodia/ Mushroom button with enclosure

● Rosso / Red



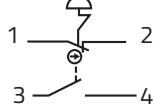
356

060APAFLRC



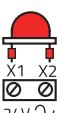
Tasto a fungo con custodia luminosa Mushroom button with illuminated enclosure

● Rosso / Red



356

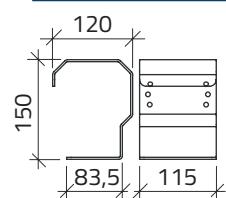
060APAFLRCL



060

Accessori

Accessories

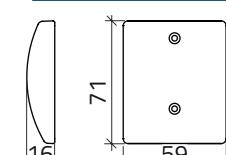


Elemento di protezione per pulsante a palmo
Protective shroud for palm switch

g **cod**

1,145

060SEP

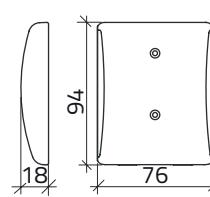


Tasti per pulsanti a palmo normale
Buttons for normal palm switches

g **cod**

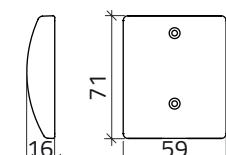
Tasto bombato / Dome button

● Nero / Black	25	060TBN
● Rosso / Red	25	060TBR
● Verde / Green	25	060TBV
● Giallo / Yellow	25	060TBG
● Blu / Blue	25	060TBBL



Tasto a fungo / Mushroom button

● Nero / Black	36	060TFN
● Rosso / Red	36	060TFR
● Verde / Green	36	060TFV
● Giallo / Yellow	36	060TFG
● Blu / Blue	36	060TFBL

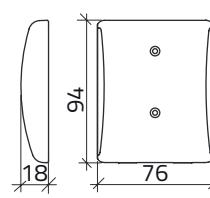


Tasti per pulsante a palmo luminosi
Buttons for illuminated palm switches

g **cod**

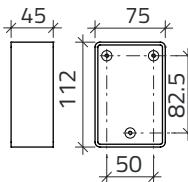
Tasto bombato / Dome button

● Rosso / Red	25	060TBLR
● Verde / Green	25	060TBLV
● Giallo / Yellow	25	060TBLG
● Blu / Blue	25	060TBLBL
○ Bianco / White	25	060TBLB
○ Trasparente / Clear	25	060TBLI



Tasto a fungo / Mushroom button

● Rosso / Red	36	060TFLR
● Verde / Green	36	060TFLV
● Giallo / Yellow	36	060TFLG
● Blu / Blue	36	060TFLBL
○ Bianco / White	36	060TFLB
○ Trasparente / Clear	36	060TFLI



Custodia per azionatore a palmo
Palm switch enclosures

g **cod**

Custodia non luminosa / Not illuminated enclosure

○ Grigio / Grey	115	060SGR
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Custodia luminosa / Illuminated enclosure

● Rosso / Red	115	060SRT
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Accessori Accessories

Suffissi per stampa simboli su tasti Suffixes for printing symbols on buttons

cod

Far seguire al codice del prodotto il suffisso del simbolo desiderato
Item code is to be followed by the suffix of the required symbol

SIMBOLO / SYMBOL

SUFFISSO / SUFFIX



S48



S148



S55



S152



S153



S144

i

S154

SOS

S159

060

Pulsantiera mobile

Hand-held push-button control unit

■ PULSANTIERA MOBILE

L'unità portatile è stata progettata per rispondere ai requisiti di ergonomia, sicurezza ed affidabilità. Questo tipo di apparecchiature trova un utilizzo ideale nei settori dei sistemi di automazione a controllo numerico e nelle applicazioni con robot industriali. Le caratteristiche dimensionali della parte superiore permettono di realizzare svariate configurazioni di operatori, mentre nella parte inferiore, usata come impugnatura, è possibile allestire tastiere a membrana; nei lati è prevista la possibilità d' installare pulsanti di abilitazione a 3 posizioni con funzione antipanico. La caratteristica forma della pulsantiera è stata progettata per proteggere gli operatori (anche nel caso di selettori con chiave inserita) da eventuali urti o shock.



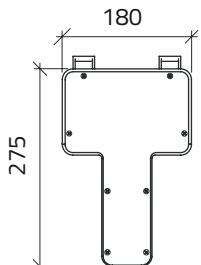
■ MODULAR SYSTEM FOR PUSH-BUTTON

The hand-held unit has been designed to meet ergonomic and safety requirements and to offer reliability. This type of equipment is ideal for usage in numeric control automation systems and applications which use industrial robots. The size of the upper part makes it possible to create various operator configurations , while the lower part. udes to grip the unit, can be equipped with 3 positions enabling switch, with antipanic function. The characteristic shape of the button board is designed to protect operators (also when the key selector is inserted) from collision or shock.



Pulsantiera mobile

Hand-held push-button control unit



Scatola pulsantiera in resina termoplastica
Push-button enclosure made of thermoplastic resin

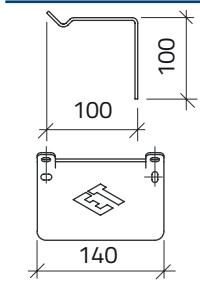
Completa di piastra in alluminio, senza forature.
Per richieste speciali contattare la nostra organizzazione commerciale.
Provided with aluminium undrilled plate.

For special requirements get in touch with our commercial department.
Grado di protezione : IP66/ Protection degree : IP66 560

060PMG

g

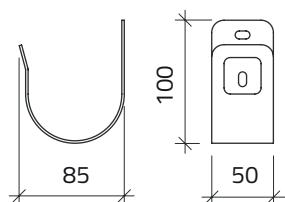
cod



Staffa fissaggio parete / Wall-mounting bracket
Acciaio / Steel

455

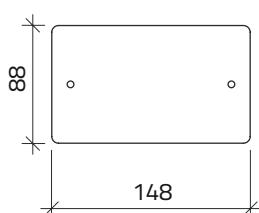
060SFP



Staffa di fissaggio cavo / Cable bracket
Acciaio / Steel

360

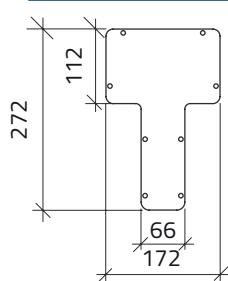
060SFC



Piastra di fissaggio magnetica / Magnetic mounting plate
Acciaio / Steel

200

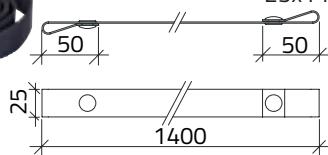
060PFM



Piastra non forata (ricambio) / Undrilled plate (spare part)
Alluminio anodizzato / Anodised aluminium

160

060PPM



Cinghia tracolla / Shoulder belt

25x1400 mm

46

010CT25

060

Pulsantiere pensili

Pendant push-button stations



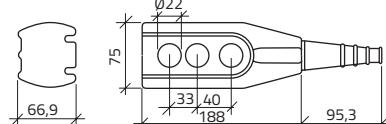
Con operatore / With operator

g

cod

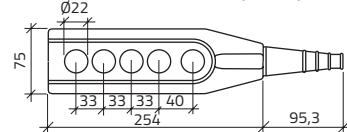
2 operatori + emergenza 1NC / 2 operators + emergency 1NC

Pulsanti a 1 velocità / 1 speed push-buttons	390	060PM2S1
Pulsanti a 2 velocità / 2 speed push-buttons	390	060PM2S2



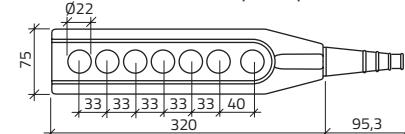
4 operatori + emergenza 1NC / 4 operators + emergency 1NC

Pulsanti a 1 velocità / 1 speed push-buttons	550	060PM4S1
Pulsanti a 2 velocità / 2 speed push-buttons	550	060PM4S2



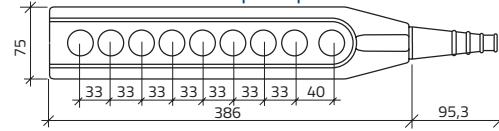
6 operatori + emergenza 1NC / 6 operators + emergency 1NC

Pulsanti a 1 velocità / 1 speed push-buttons	960	060PM6S1
Pulsanti a 2 velocità / 2 speed push-buttons	960	060PM6S2



8 operatori + emergenza 1NC / 8 operators + emergency 1NC

Pulsanti a 1 velocità / 1 speed push-buttons	1070	060PM8S1
Pulsanti a 2 velocità / 2 speed push-buttons	1070	060PM8S2



Senza operatore / Without operator

g

cod

3 fori / 3 holes	240	060PM3
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5 fori / 5 holes	290	060PM5
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7 fori / 7 holes	400	060PM7
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Caratteristiche tecniche

Technical data

Caratteristiche pulsanti

Push-button performance

Involucro	Body	Durata meccanica	5 x 10 ⁶ cicli di manovra	Mechanical durability	5 x 10 ⁶ operations
ABS	ABS	Durata elettrica	1 x 10 ⁵ cicli di manovra	Electrical durability	1 x 10 ⁵ operations
Grado di protezione	Degree of protection	Tensione nominale Ue	250v AC	Rating operating voltage Ue	250v AC
IP65	IP65	Corrente nominale Ia	4 A	Rating operating current Ia	4 A
Temperatura di esercizio	Operating temperature	Potenze nominali di impiego in AC 15 secondo IEC947-5-1	1000 VA	Rated switching power according to IEC947-5-1	1000 VA
-5°C +125°C	-5°C +125°C	Tensione di isolamento UI	300V Uimp 2,5 Kv	Insulation Voltage UI	300V Uimp 2,5 Kv



