



# P02

## PENDANT STATION

TECHNICAL CHARACTERISTICS .....	2
STANDARD VERSIONS .....	3
STANDARD VERSIONS WIRING .....	4
CHARACTERISTICS OF CONTACT BLOCKS FOR STANDARD VERSIONS .....	5
CUSTOM KIT .....	9
OPERATORS FOR CUSTOM KIT .....	10
CONTACT BLOCK FOR CUSTOM KIT .....	12
CUSTOM PENDANT STATION ASSEMBLY .....	13
CHARACTERISTICS OF ADDITIONAL CONTACT BLOCKS .....	16



Before use, read this booklet carefully to acquaint yourself with the features of the product. This booklet is an integral part of the product and therefore must be kept until the product is dismissed.



Giovenzana International B.V. reserves the right to change the features and data shown in this document at any time and without notice. This document cannot therefore be considered a contract with third parties.



P02 pendant stations are designed and manufactured according to IEC international standard and EN European regulations.



Improper installation or tampering can cause serious damage to people and property, therefore installation and maintenance must be carried out by specialized and authorized personnel.



The device is not intended for use in environments with a potentially explosive atmosphere or in the presence of corrosive substances and in salt fog.



Two push button pendant stations for small hoist, in single row:

- Bi-directional, mechanically interlocked
- IP65 double insulation IEC / EN 60529
- Laser engraved symbols comply with EN 60204-1, FEM 9.941
- Shock proof and heat resistant
- Single speed or two speed motor
- Direct motor control 1 kW - 1 speed
- Available in UL/CSA requirements
- Kit version available

# IMPORTANT INFORMATION

THE INFORMATION SHOWN ON THIS PAGE IS ESSENTIAL FOR THE CORRECT INTERPRETATION OF WHAT HAS BEEN EXPOSED IN THIS BOOKLET.

## Symbols

The following symbols are used in this booklet:



Read carefully before use.



Information note.



ATTENTION, the information highlighted by this symbol is very important.

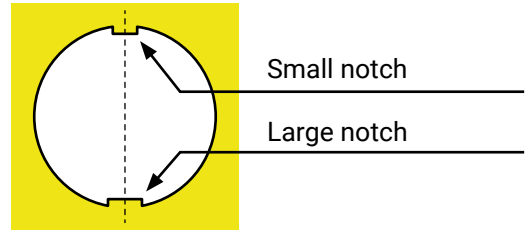


DANGER, the information highlighted by this symbol concerns environments with a potentially explosive atmosphere or the presence of corrosive substances and salt fog.



This symbol highlights the recommended tightening torques to guarantee the degree of protection of the product and to prevent it from breaking.

## Orientation and type of operators



The operators' housing holes follow the diagram shown in the figure (**vertical**).



### ATTENTION

IT IS DANGEROUS TO OPERATE THE PUSH-BUTTONS AT THE SAME TIME

## Tools required (not supplied)



Phillips screwdriver



Flathead screwdriver



Torque screwdriver with its flat and Phillips heads

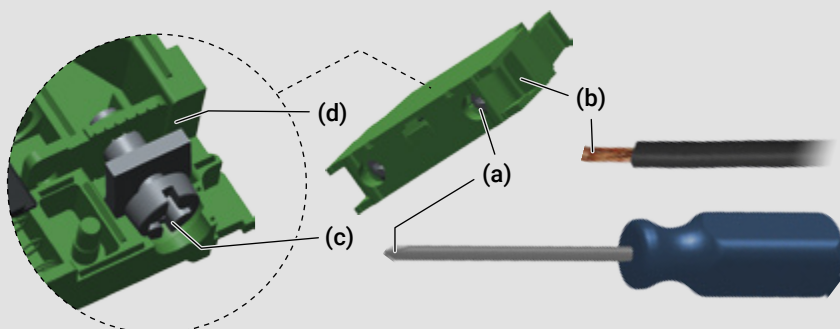


Scissors



PCF key (to be purchased separately)

## Contact block with screw terminals



Loosen the screw (a) with a Phillips screwdriver and insert the end of the cable into the opening (b). Tighten the screw with a torque screwdriver to lock the end of the cable. In detail, the action on the screw (c) loosens the stop (d) and allows you to insert the end of the cable.



### TIGHTENING TORQUE

0.8 N×m / 7.2 lb×in (EN60947-1)  
7.5 lb×in / 0.85 N×m (UL508)

# TECHNICAL CHARACTERISTICS

## Pendant station technical data

Compliant to standards	IEC / EN60947-5-1	
Material	PP	
Material group	II	
Pollution class	3	
Temperature	operating	-25°C ... +70°C
	storage	-30°C ... +70°C
Climate resistance	IEC68 part 2-3	hot damp
	IEC68 part 2-30	unsettled hot damp
Cable entry	rubber cable sleeve Ø 7 ... 18 mm	
Weight	P02.RM / P02.1 / P02.2 / P02.D2	230 g
	P02.4 / P02.CD	250 g

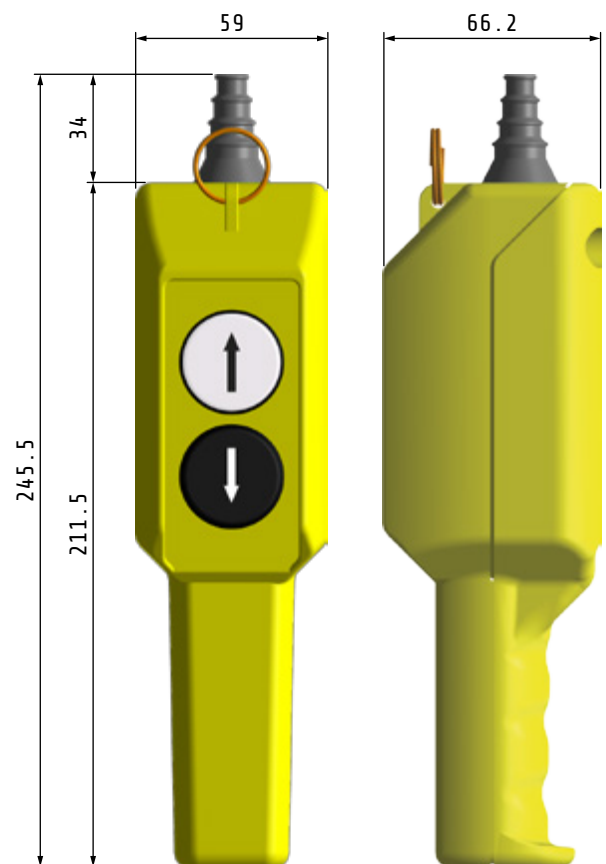
## Versions

- P02.RM
- P02.1 - P02.2 - P02.4 - P02.CD
- P02.D2

## Compliance and certifications

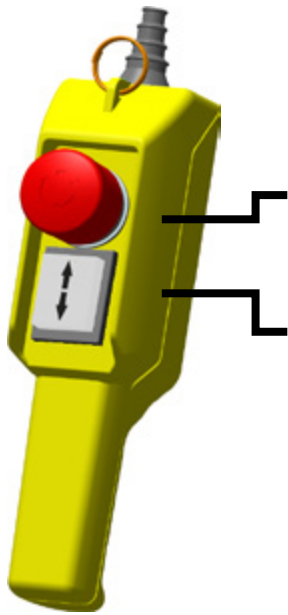
- 2014/35/UE
- 2011/65/UE RoHS
- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005 EN ISO 13850 2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 60529 (1991/A1 : 2000/A2 : 2013)

## Dimensions



Dimensions in mm  
Drawing NOT in scale

# STANDARD VERSIONS



## P02.RM \*

Single speed

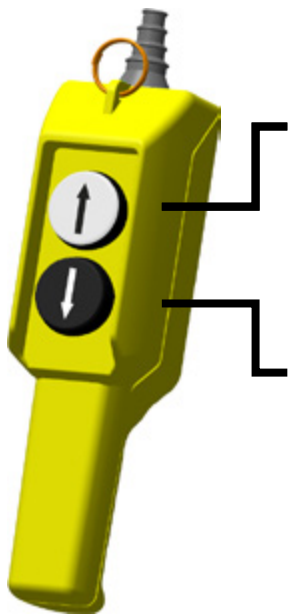


PL004001 (NC)



11708237 (ON-OFF-ON)

\* With double pole commutator with center off 16 A - 250 Vac ½ HP



## P02.1

Single speed



PL004002 (NO)

## P02.2

Single speed



PL004002 (NO)  
PL004002 (NO)

## P02.4

Single speed



PL004001 (NC)  
PL004002 (NO)

## P02.CD

Single speed \*\*



PL004001CD (NC)  
PL004002CD (NO)  
PL004002CD (NO)



PL004002 (NO)



PL004002 (NO)  
PL004002 (NO)

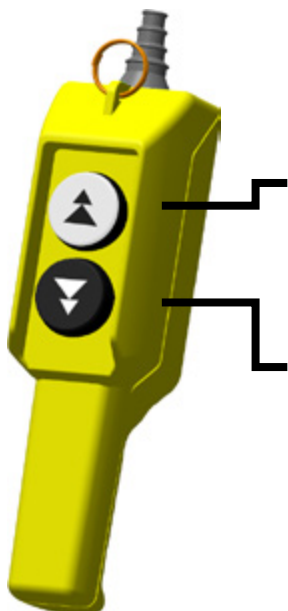


PL004001 (NC)  
PL004002 (NO)



PL004001CD (NC)  
PL004002CD (NO)  
PL004002CD (NO)

\*\* High power contacts direct motor control 1 kW 1 ph



## P02.D2

Double speed



PL004010 (NO-NO)



PL004010 (NO-NO)



PL004001 (NC)  
red



PL004001CD (NC)  
red



PL004002 (NO)  
green



PL004002CD (NO)  
green



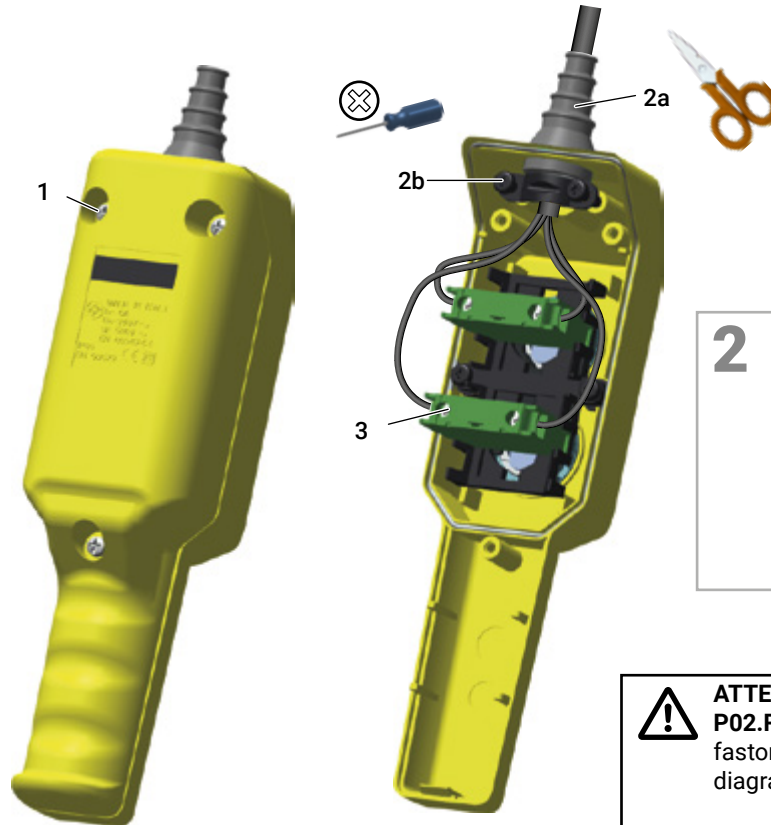
PL004010 (NO-NO)  
green

# STANDARD VERSIONS WIRING



**ATTENTION**  
Is shown the wiring of a push-button panel with only one contact element per key. The procedure is identical for 2 or 3 contact elements per key.

**1** Loosen the screws to remove the bottom of the pendant station.



**2** Cut the cable clamp (a) to match the selected cable size. Loosen the screws (b) of the cable holder and insert the cable into the cable clamp.

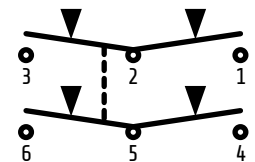
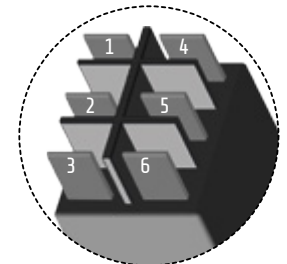


**ATTENTION**  
The sections that can be connected to the contact blocks are shown in the paragraph "CHARACTERISTICS OF CONTACT BLOCKS FOR STANDARD VERSIONS" on page 6.

**3** Wire the contact blocks following the procedure "Contact block with screw terminals" on page 2.



**ATTENTION**  
**P02.RM** only: wire with faston according to the diagram shown.

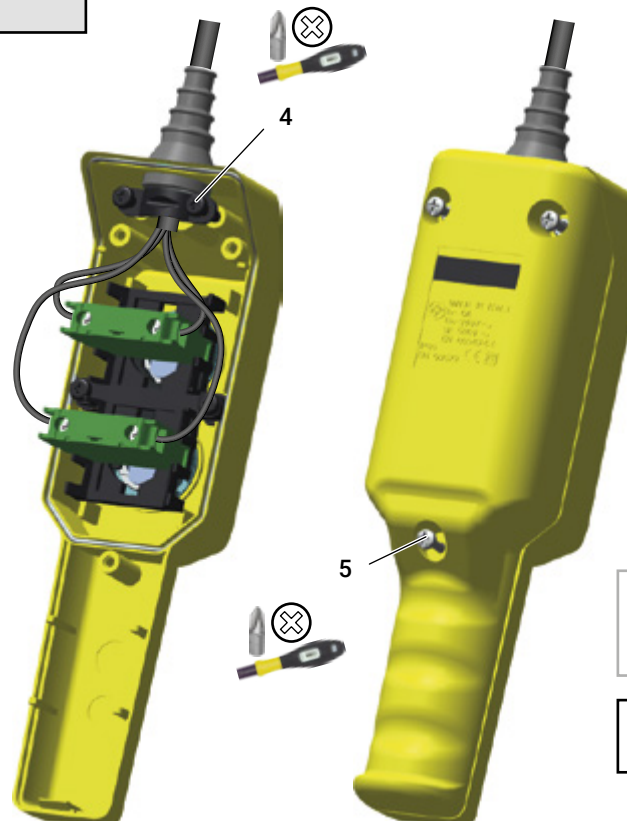


**ON-OFF-ON**  
**(mom)-(mom)**

**4** Tighten the cable holder screws.



**TIGHTENING TORQUE**  
1.2-1.4 N×m  
10.6-12.4 lb×in



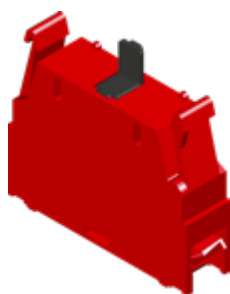
**5** Replace the bottom of the pendant station and screw it in place.



**TIGHTENING TORQUE**  
1.3-1.7 N×m / 11.5-15 lb×in

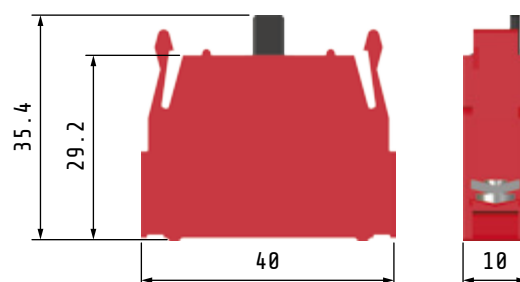
# CHARACTERISTICS OF CONTACT BLOCKS FOR STANDARD VERSIONS

PL004001

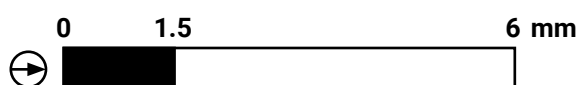


NC  
Red

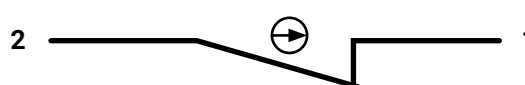
Contact block  
with screw  
terminals



## Functions



## Scheme



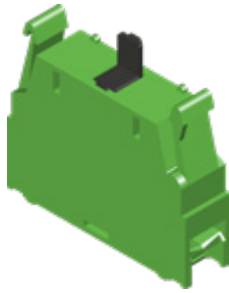
Rated insulation voltage	Ui	690 V *								
Rated impulse withstand voltage	Uimp	4 kV *								
Frequency		50/60 Hz *								
Rated thermal current	Ith	16 A *								
Rated operating current	Ithe	10 A								
<b>Rated operating current</b>		<b>Ie</b>								
AC-15 alternate current		24	60	120	240	400	440	500	690	V
		16*	12	8	6	4.5	3.5	3*	1	A
DC-13 direct current		24	48	60	110	220	V			
		2*	1.2	0.85	0.4	0.25*	A			
Conditional short circuit withstand current		1000 A *								
Fuses rating gG		10 A * - 500 V								
Contact insulation resistance		≤ 25 mΩ								
Switching mechanism		slow break double gap contacts								
Positive operation		NC contact block ⊕								
Operating force		4 N								
Electric durability AC-15		1	2	3	A					
		1.5	0.5	0.25	millions of cycles					
Terminal type		M3.5 screw								
Terminal capacity		No. 1 or 2 flexible and solid conductor 1... 2.5 mm <sup>2</sup>								

### UL508 characteristics

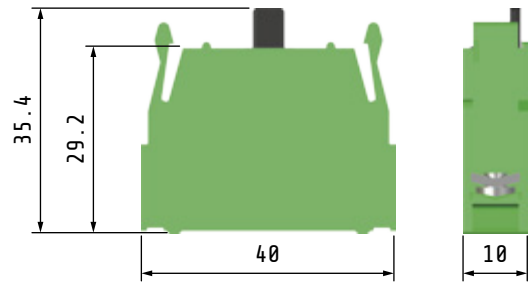
Rated insulation voltage	Ui	10 A - 600 V ac / 2.5 A - 125 V dc							
Rated impulse withstand voltage	Uimp	A600 - Q600							

\* IMQ approved values

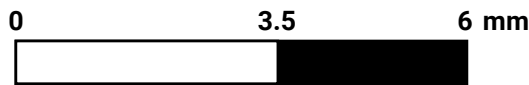
# PL004002



NO  
Green  
  
Contact block  
with screw  
terminals



### Functions



### Scheme

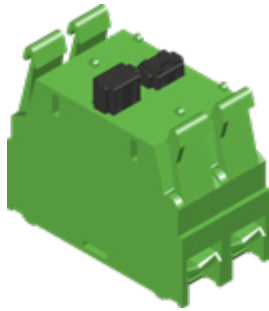


Rated insulation voltage	Ui	690 V *								
Rated impulse withstand voltage	Uimp	4 kV *								
Frequency		50/60 Hz *								
Rated thermal current	Ith	16 A *								
Rated operating current	Ithe	10 A								
<b>Rated operating current</b>		<b>Ie</b>								
AC-15 alternate current		24	60	120	240	400	440	500	690	V
		16*	12	8	6	4.5	3.5	3*	1	A
DC-13 direct current		24	48	60	110	220	V			
		2*	1.2	0.85	0.4	0.25*	A			
Conditional short circuit withstand current		1000 A *								
Fuses rating gG		10 A * - 500 V								
Contact insulation resistance		≤ 25 mΩ								
Switching mechanism		slow break double gap contacts								
Operating force		4 N								
Electric durability AC-15		1	2	3	A					
		1.5	0.5	0.25	millions of cycles					
Terminal type		screw M3.5								
Terminal capacity		No. 1 or 2 flexible and solid conductor 1... 2.5 mm <sup>2</sup>								
<b>UL508 characteristics</b>										
Rated insulation voltage	Ui	10 A - 600 V ac / 2.5 A - 125 V dc								
Rated impulse withstand voltage	Uimp	A600 - Q600								

\* IMQ approved values

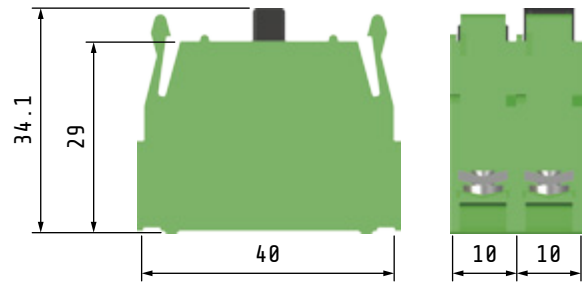


# PL004010



NO  
NO  
Green

Contact block  
with screw  
terminals



Functions		Scheme
0	3.5	6 mm
0	3.5	6 mm

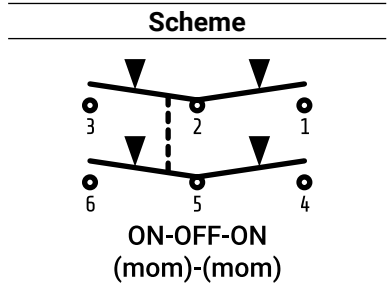
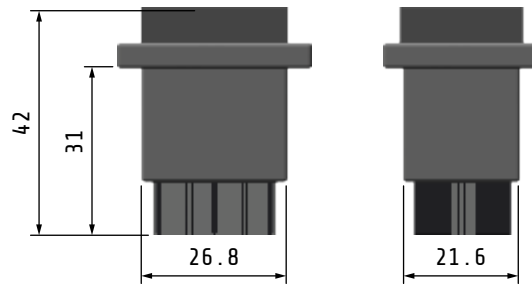
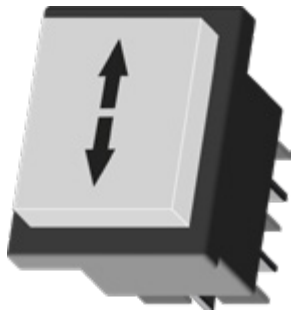


Rated insulation voltage	Ui	690 V *
Rated impulse withstand voltage	Uimp	4 kV *
Frequency		50/60 Hz *
Rated thermal current	Ith	16 A *
Rated operating current	Ithe	10 A
<b>Rated operating current</b>		
	<b>Ie</b>	
AC-15 alternate current		24 60 120 240 400 440 500 690 V 16* 12 8 6 4.5 3.5 3* 1 A
DC-13 direct current		24 48 60 110 220 V 2* 1.2 0.85 0.4 0.25* A
Conditional short circuit withstand current		1000 A *
Fuses rating gG		10 A * - 500 V
Contact insulation resistance		≤ 25 mΩ
Switching mechanism	1 <sup>st</sup> speed 2 <sup>nd</sup> speed	slow break double gap contacts snap break
Operating force		4 N
Electric durability AC-15		1 2 3 A 1.5 0.5 0.25 millions of cycles
Terminal type		screw M3.5
Terminal capacity		No. 1 or 2 flexible and solid conductor 1... 2.5 mm <sup>2</sup>
<b>UL508 characteristics</b>		
Rated insulation voltage	Ui	10 A - 600 V ac / 2.5 A - 125 V dc
Rated impulse withstand voltage	Uimp	A600 - Q600

\* IMQ approved values

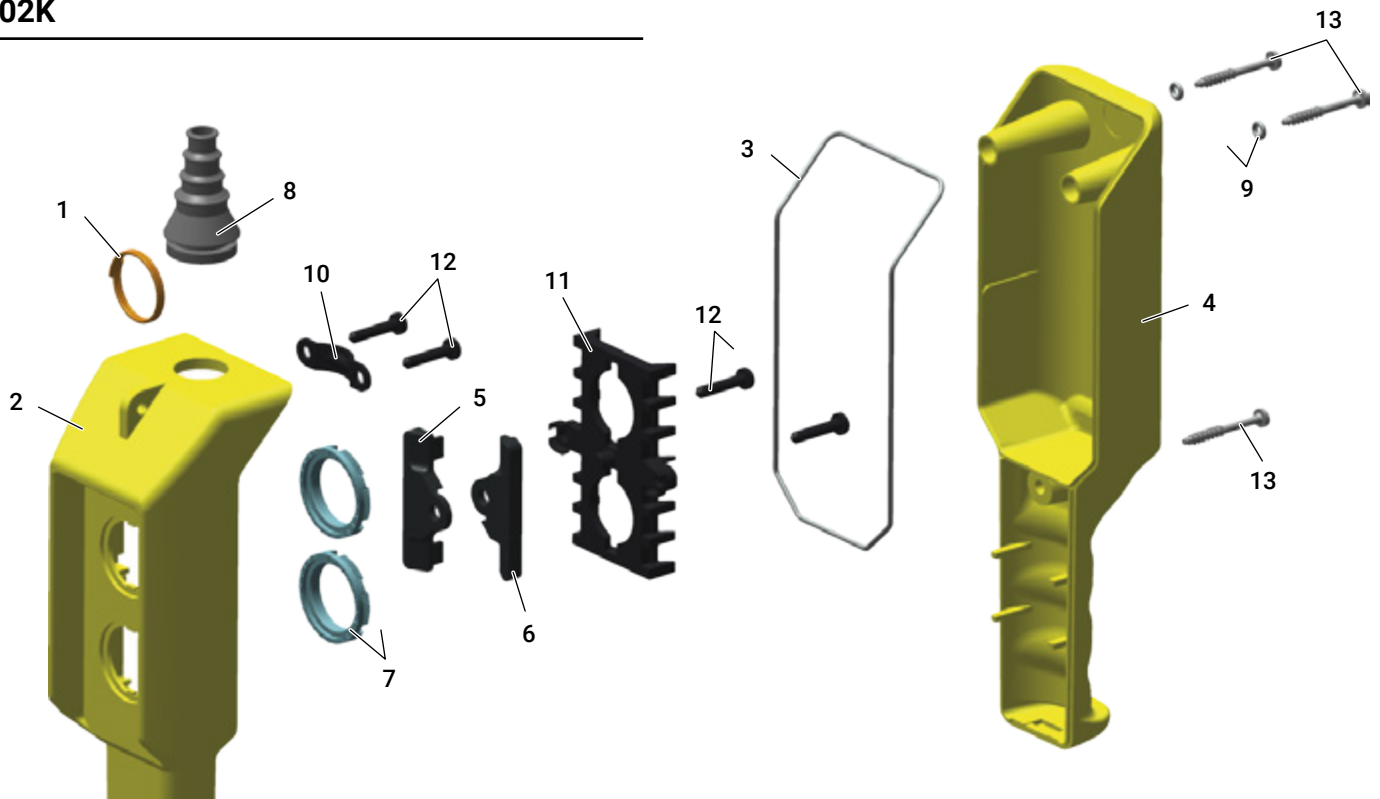


11708237



## CUSTOM KIT

P02K



1	Suspension ring	1 x
2	Pendant station cover with handle	1 x
3	Rubber gasket	1 x
4	Pendant station base	1 x
5	Bottom mechanical interlock 16 A	1 x
6	Top mechanical interlock 16 A	1 x
7	Threaded ring nut M22x1	2 x
8	Cable clamp	1 x
9	O-ring	2 x
10	Cable holder	1 x
11	Coupling plate with 2 holes	1 x
12	Crosshead self-tapping screw	4 x
13	Self-tapping screw 4x30 partial thread	3 x

Components excluded that must be ordered separately:

- Operators
- Contact blocks

# OPERATORS FOR CUSTOM KIT

## Operators without wording (code PL...)

Pair with the contact block with the matching label

**A**



PL005019



PL005004



PL005020



PL005005



PL005031



PL005016



PL005027



PL005012



PL005028



PL005013



PL005032



PL005017



PL005023



PL005008



PL005024



PL005009



PL005033



PL005018



PL005001



PL005002



PL005003

Symbols according to FEM 9.941. Customized engraving available on minimum quantity request.

## Double speed operators (code PL...)

Pair with the contact block with the matching label

**C**



PL005021



PL005006



PL005025



PL005010



PL005029



PL005014

Symbols according to FEM 9.941. Customized engraving available on minimum quantity request.

## Neutral operators (code PL...)

Pair with the contact block with the matching label

**A**



PL005034 (blue)



PL005035 (white)



PL005036 (black)



PL005037 (red)



PL005038 (green)



PL005039 (yellow)

## Gems

Pair with the contact block with the matching label

**B**



PL008001 (red)



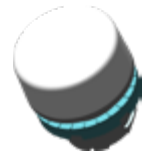
PL008002 (green)



PL008003 (yellow)



PL008004 (blue)



PL008005 (white)

## Mushrooms and selectors

Pair with the contact block with the matching label

**A**

Emergency mushroom Ø40 momentary



PL013003

Emergency mushroom Ø40 key unlock



PPFN1C4NX

Emergency mushroom Ø30 rotation unlock



PL013001 with vision

Emergency mushroom Ø30 rotation unlock



PL013002 standard

Handle selector



PL007001 0-1 / 90°  
PL007002 1-0-2 / 45°  
PL007003 1>0<2 / 45°

Handle selector with removable key in "0"



PL006001 0-1 / 90°  
PL006002 1-0-2 / 45°  
PL006004 1>0<2 / 45°

## Other components

**/**

Hole plug



PL015001

Fixing key



PCF

# CONTACT BLOCK FOR CUSTOM KIT

## Contact blocks

Pair with the operator  
with the matching label

**A**



NC  
PL004001



NO  
PL004002



NC  
PL004001CD



NO  
PL004002CD

## Lights

Pair with the operator  
with the matching label

**B**



PL0045L12 (AC/DC 12 V)  
PL0045L24 (AC/DC 24 V)  
PL0045L48 (AC/DC 48 V)  
PL0045L110 (AC/DC 110 V)  
PL0045L220 (AC 220 V)



PL004007

## Contact blocks

Pair with the operator  
with the matching label

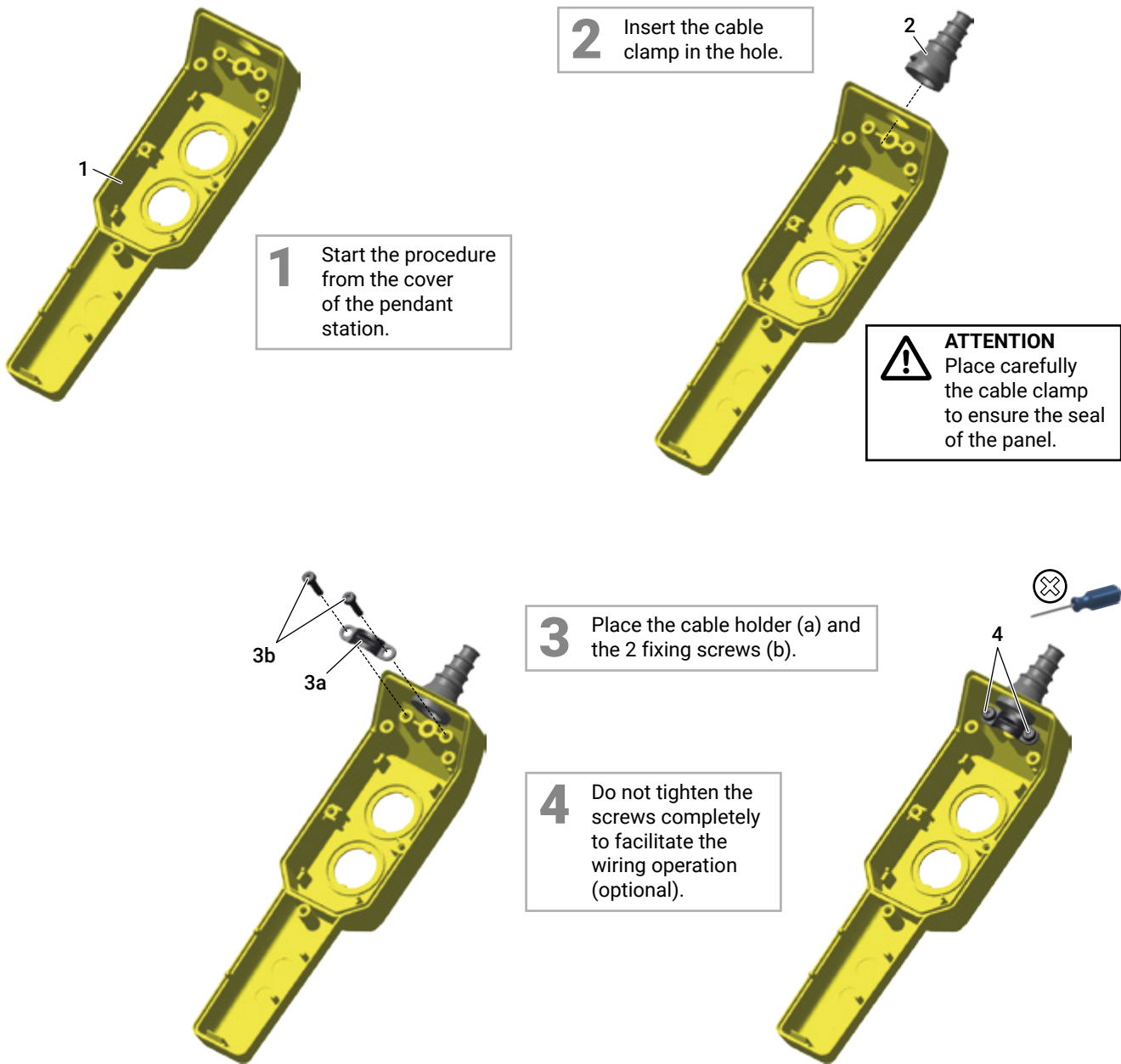
**C**



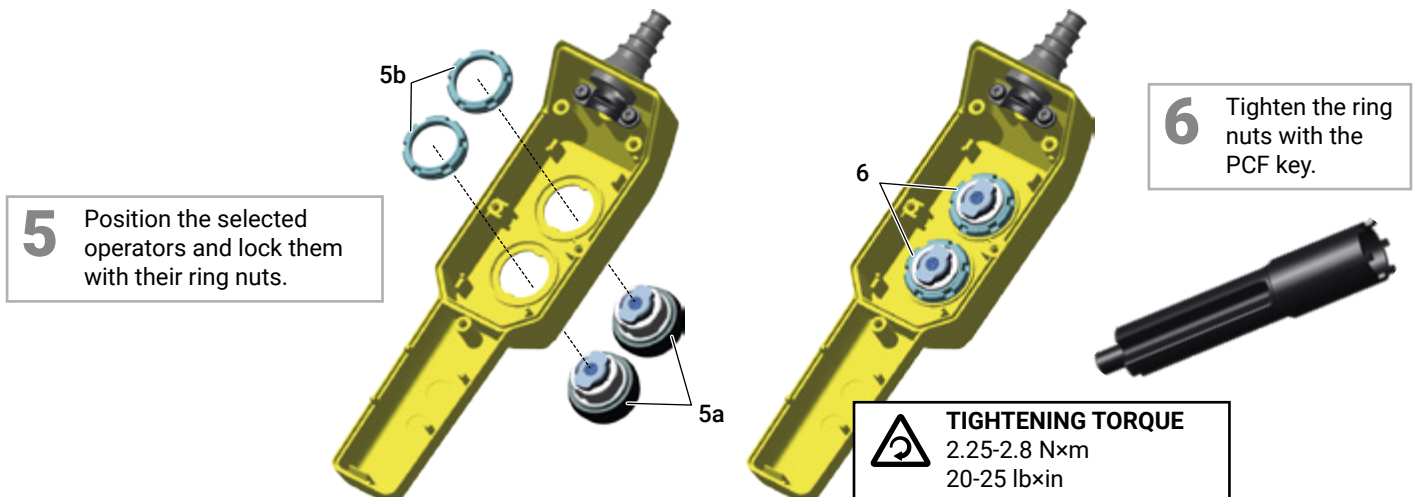
double step NO+NO  
PL004010

# CUSTOM PENDANT STATION ASSEMBLY

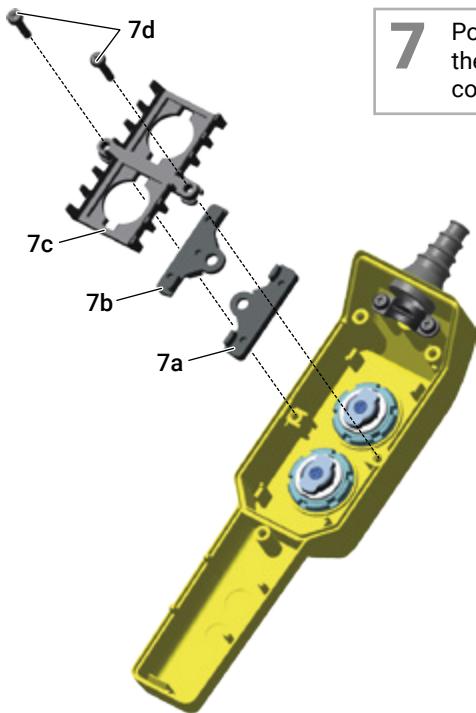
## Cable clamp and cable holder



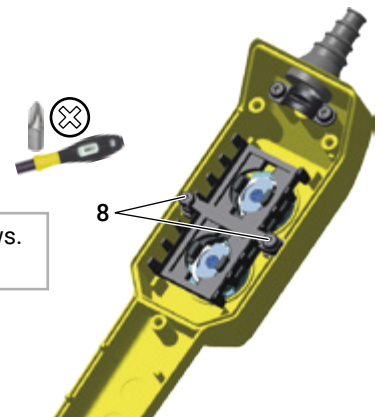
## Operators



## Coupling plate and contact blocks



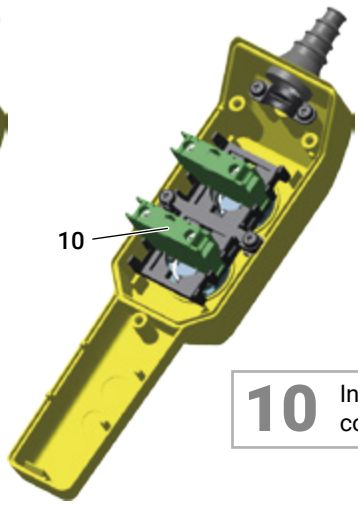
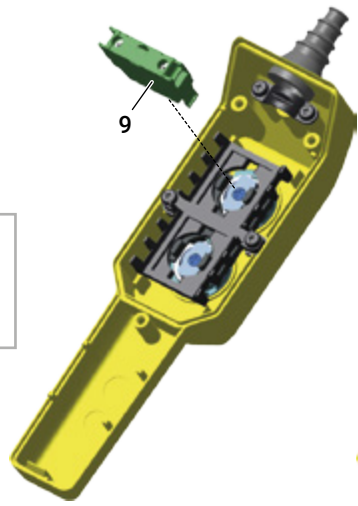
**7** Position the top mechanical interlock (a), the bottom mechanical interlock (b), the coupling plate (c) and the fixing screws (d).



**8** Tighten the fixing screws.

**TIGHTENING TORQUE**  
 1.4-1.6 N×m  
 12.4-14 lb×in

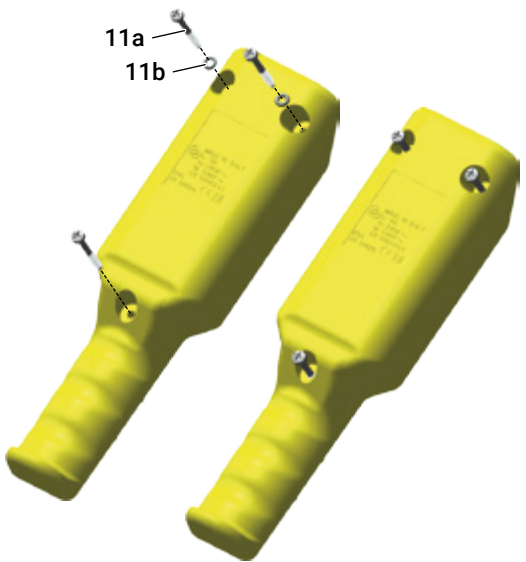
**9** Install the contact block by pushing it into the desired position on the coupling plate.



**10** Install all other chosen contact blocks.

## Pendant station base

**11** Place the fixing screws (a) and the o-rings (b) in the respective holes in the pendant station base.

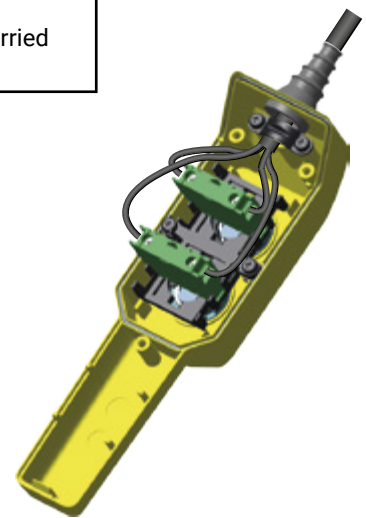


## Wiring

**ATTENTION**  
 Wire as shown in the paragraph "CHARACTERISTICS OF CONTACT BLOCKS FOR STANDARD VERSIONS" on page 6

**ATTENTION**  
 Wiring is optional and can be carried out later.

**ATTENTION**  
 The sections that can be connected to the contact blocks are shown in the paragraph "CHARACTERISTICS OF CONTACT BLOCKS FOR STANDARD VERSIONS" on page 6 e nel paragrafo "CHARACTERISTICS OF ADDITIONAL CONTACT BLOCKS" on page 16





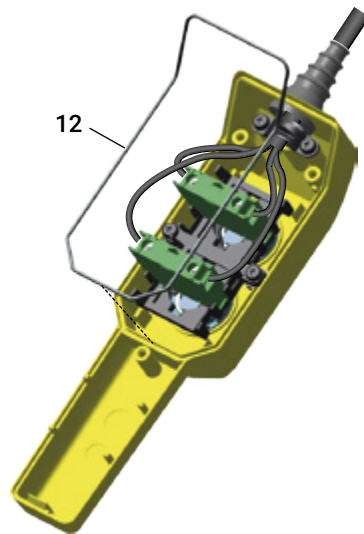
## Close the pendant station

**12** Place the sealing gasket into the groove.



**ATTENTION**

Carefully position the sealing gasket to ensure tightness.



**13** Position the base of the pendant station.



**14** Tighten the fixing screws of the base of the pendant station.



**TIGHTENING TORQUE**

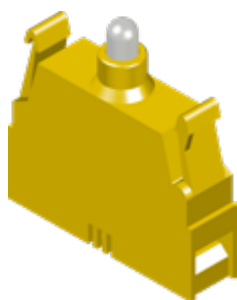
1.3-1.7 Nxm  
11.5-15 lbxin





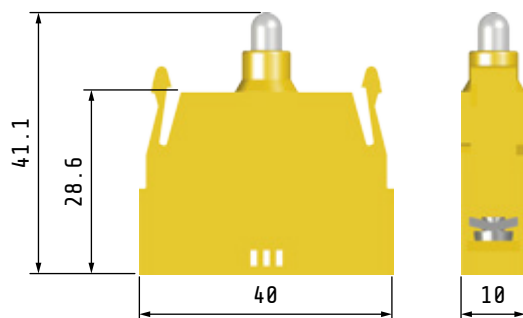
# CHARACTERISTICS OF ADDITIONAL CONTACT BLOCKS

## PL0045L...



Yellow

Contact block with screw terminals



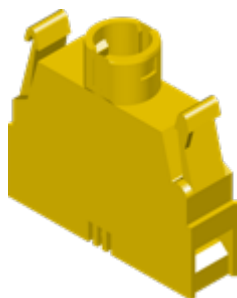
Scheme



Power supply

PL0045L12	AC/DC 12 V
PL0045L24	AC/DC 24 V
PL0045L48	AC/DC 48 V
PL0045L110	AC/DC 110 V
PL0045L220	AC 220 V

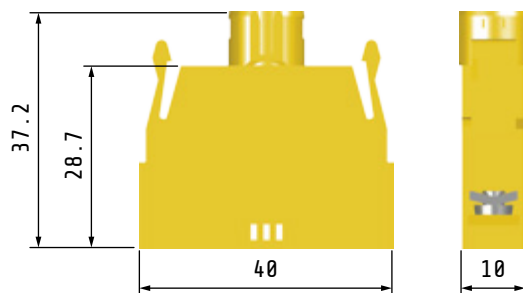
## PL004007



Yellow

Contact block with screw terminals

Light bulb non included



Scheme



Connection		BA9s
Power supply	max	400 V
Absorbed power	max	2.4 W