



PL PLN

PENDANT STATION

| | |
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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.



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PL-PLN 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.



Single-row pendant station for crane control circuits:

- 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
- 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.

Tools required (not supplied)



Phillips screwdriver



Flathead screwdriver



Torque screwdriver with its flat and Phillips heads

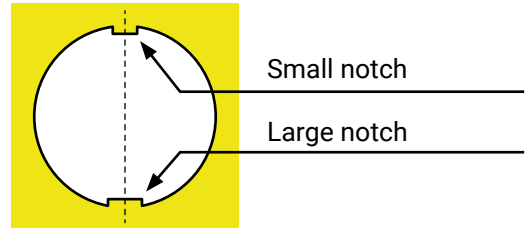


Scissors



PCF key (to be purchased separately)

Orientation and type of operators



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



PL...



PLN...

The push buttons are available in two versions coded as shown in the figure.

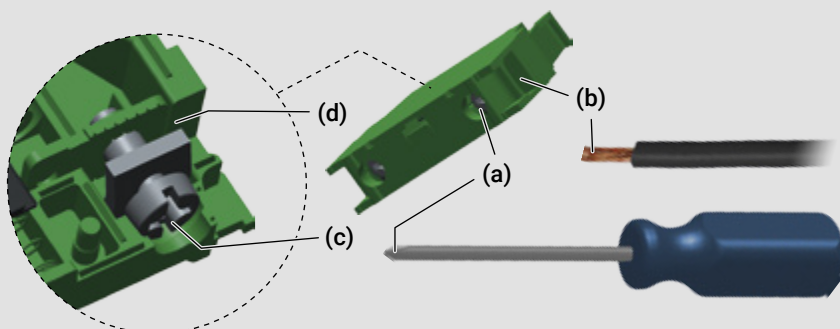
The **PLB...** entrance panels are equipped with **PL...-PLB** code keys. **PLBN...** panels are equipped with **PLN...-PLB** code keys. The buttons shown here are equipped with **PLN...-PLB**.



ATTENTION

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

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 | ABS | |
| 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 9 ... 24 mm | |
| Weight | 600 ... 1290 g | |

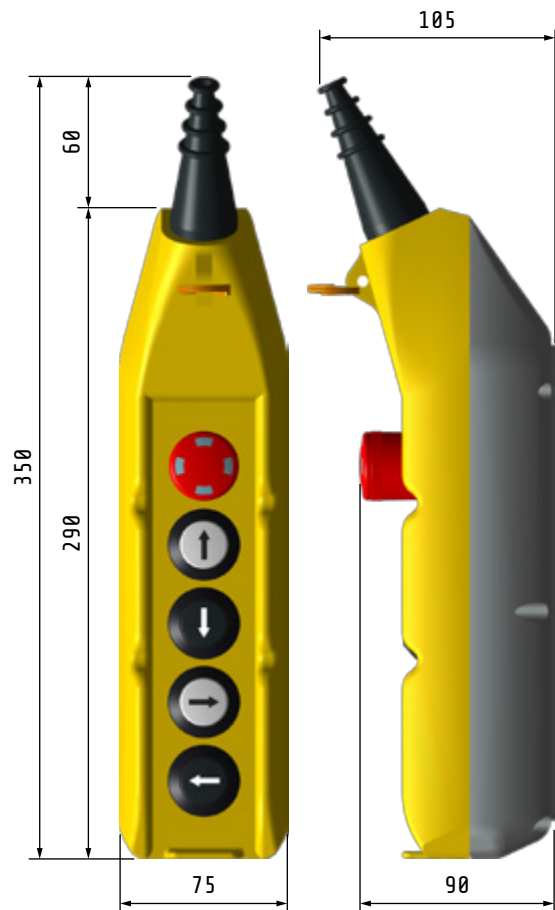
Versions

- PL05 - PL05D2 - PL05D4
- PL07 - PL07D2 - PL07D4 - PL07D6
- PL08 - PL08D2 - PL08D4 - PL08D6
- PL10
- PL12
- PLN05 - PLN05D2 - PLN05D4
- PLN07 - PLN07D2 - PLN07D4 - PLN07D6
- PLN08 - PLN08D2 - PLN08D4 - PLN08D6
- PLN10
- PLN12

Compliance and certifications

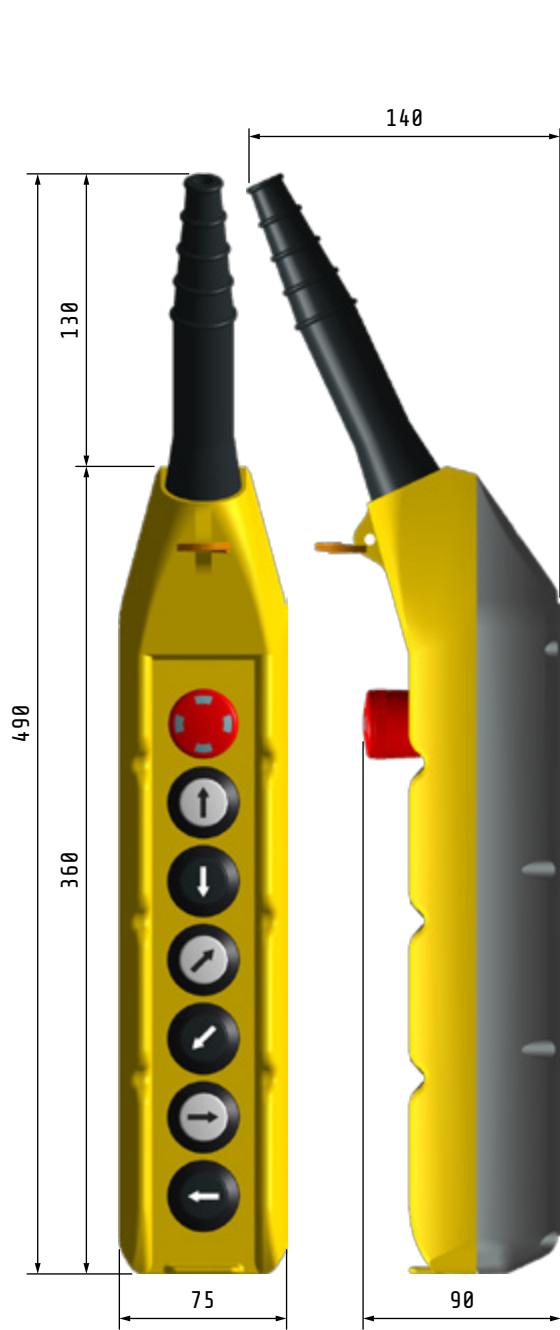
- 2014/35/UE
- 2011/65/UE RoHS
- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005 EN ISO 13850 2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 60529 (1991/A1 : 2000/A2 : 2013)

Dimensions

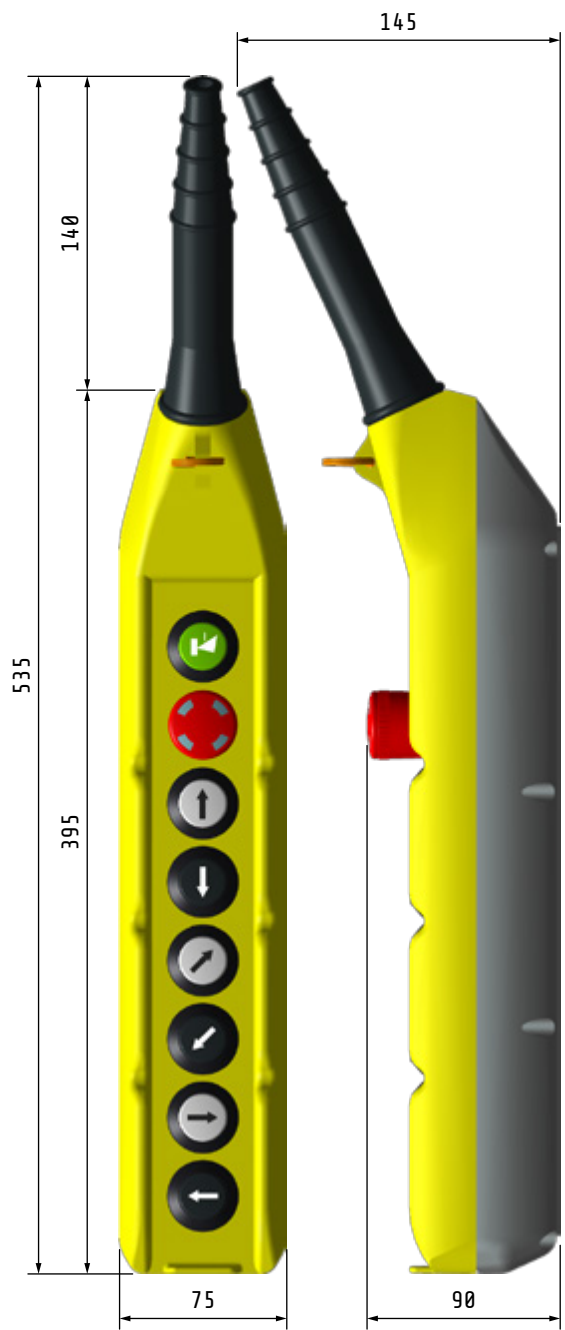


PL05
PLN05

Dimensions in mm
Drawing NOT in scale



**PL07
PLN07**

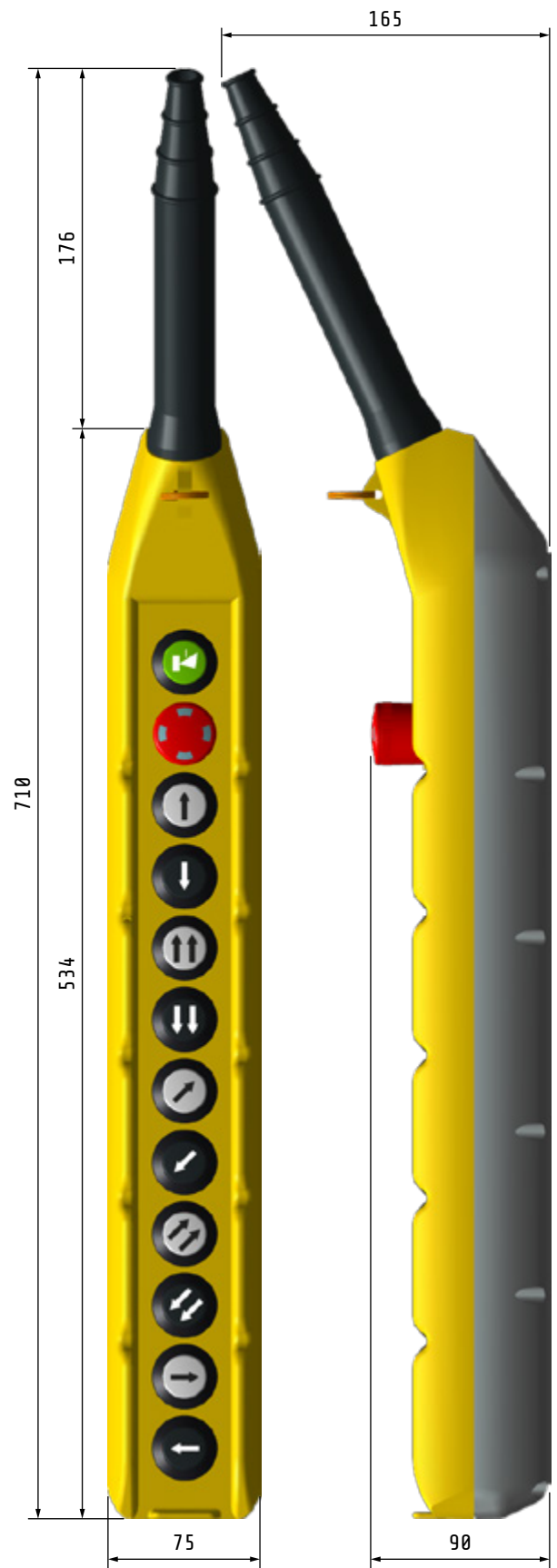


**PL08
PLN08**

Dimensions in mm
Drawing NOT in scale



**PL10
PLN10**



**PL12
PLN12**

Dimensions in mm
Drawing NOT in scale

STANDARD VERSIONS

PL05... - PLN05... - PL07... - PLN07...

To identify the contact block combined with each push button see the section "Standard button / contact combination" on page 8.




















































PL08... - PLN08... - PL10 - PLN10 - PL12 - PLN12

To identify the contact block combined with each push button see the section "Standard button / contact combination" on page 8.



Standard button / contact combination

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Single speed | Single speed | Single speed | Single speed | Single speed | Single speed |
|  |  |  |  |  |  |
| PL004002 (NO) green | PL004002 (NO) green | PL004002 (NO) green | PL004002 (NO) green | PL004002 (NO) green | PL004002 (NO) green |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Double speed | Double speed | Double speed | Double speed | Double speed | Double speed |
|  |  |  |  |  |  |
| PL004010 (NO) green | PL004010 (NO) green | PL004010 (NO) green | PL004010 (NO) green | PL004010 (NO) green | PL004010 (NO) green |
|  |  |  |  |  |  |
|  |  |  |  |  | |
| Single speed | Single speed | Single speed | Single speed | | |
|  |  |  |  |  |  |
| PL004002 (NO) PL004002 (NO) green | PL004002 (NO) PL004002 (NO) green | PL004002 (NO) PL004002 (NO) green | PL004002 (NO) PL004002 (NO) green | PL004002 (NO) PL004002 (NO) green | PL004002 (NC) red |

STANDARD VERSIONS WIRING



ATTENTION

The illustrations show the PL07 / PLN07 pendant station: the same operations are valid for the other pendant stations of this series.

- 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.

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

- 4 Tighten the cable holder screws.

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

- 5 Refit the bottom of the pendant station and screw it in place.

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



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 10.

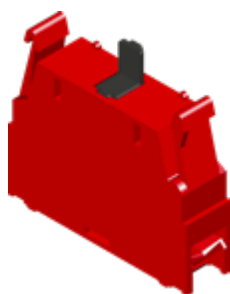


ATTENTION

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.

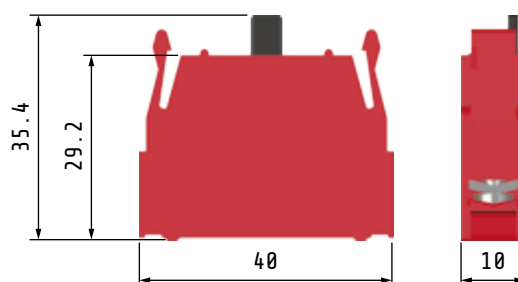
CHARACTERISTICS OF CONTACT BLOCKS FOR STANDARD VERSIONS

PL004001

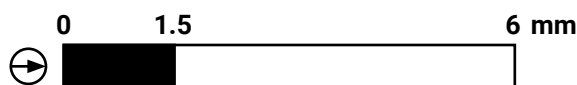


NC
Red

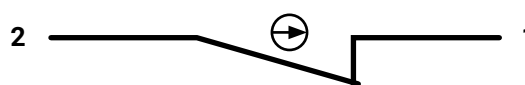
Contact block
with screw
terminals



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 |

Rated operating current

Ie

| | | | | | | | | | |
|-------------------------|-----|----|-----|-----|-----|-----|-----|-----|---|
| 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 ² |
|-------------------|--|

UL508 characteristics

| | | |
|--------------------------|----|------------------------------------|
| Rated insulation voltage | Ui | 10 A - 600 V ac / 2.5 A - 125 V dc |
|--------------------------|----|------------------------------------|

| | | |
|---------------------------------|------|-------------|
| Rated impulse withstand voltage | Uimp | A600 - Q600 |
|---------------------------------|------|-------------|

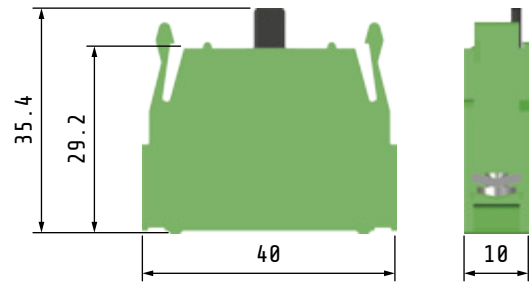
* IMQ approved values

PL004002

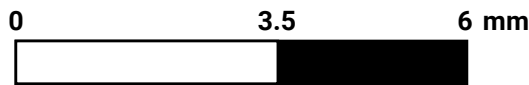


NO
Green

Contact block
with screw
terminals



Functions



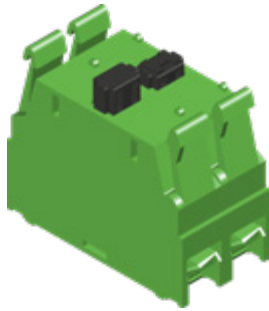
Scheme



| | | | | | | | | | | |
|---|------|--|-----|------|--------------------|-------|-----|-----|-----|---|
| 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 | | | | | | | | |
| Rated operating current | | Ie | | | | | | | | |
| 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 ² | | | | | | | | |
| UL508 characteristics | | | | | | | | | | |
| Rated insulation voltage | Ui | 10 A - 600 V ac / 2.5 A - 125 V dc | | | | | | | | |
| Rated impulse withstand voltage | Uimp | A600 - Q600 | | | | | | | | |

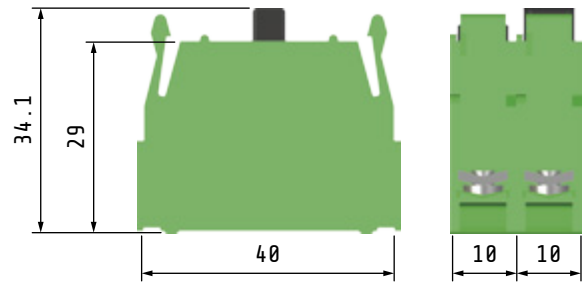
* IMQ approved values

PL004010



NO
NO
Green

Contact block
with screw
terminals



| Functions | | Scheme |
|-----------|-----|--------|
| 0 | 3.5 | 6 mm |
| | | |
| 0 | 3.5 | 6 mm |
| | | |

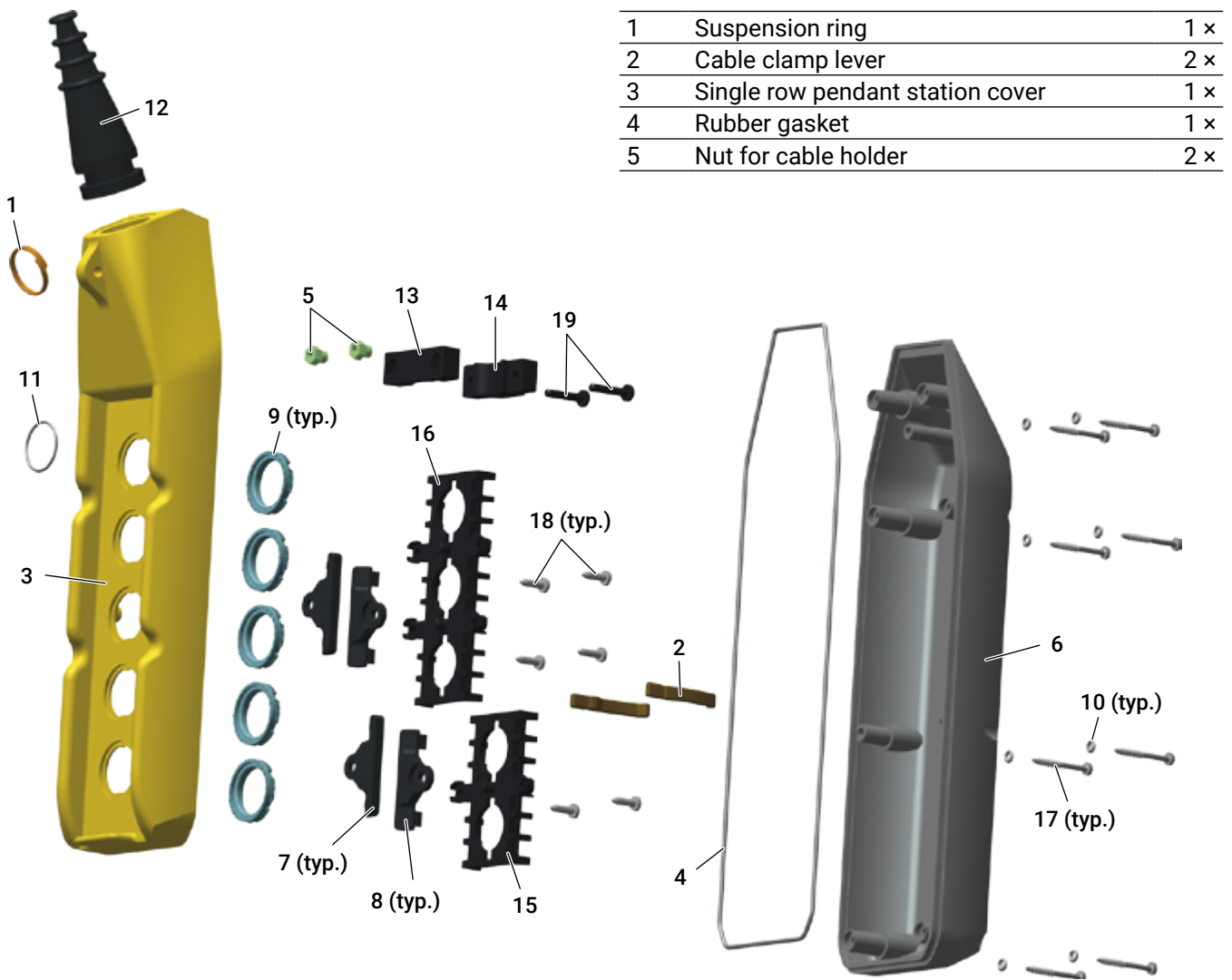


| | | |
|---|--|--|
| Rated insulation voltage | Ui | 690 V * |
| Rated impulse withstand voltage | Uimp | 4 kV * |
| Frequency | | 50/60 Hz * |
| Rated thermal current | Ith | 16 A * |
| Rated operating current | Ithe | 10 A |
| Rated operating current | | |
| | Ie | |
| AC-15 alternate current | | 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 st speed 2 nd 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 ² |
| 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

CUSTOM KIT

PL05K



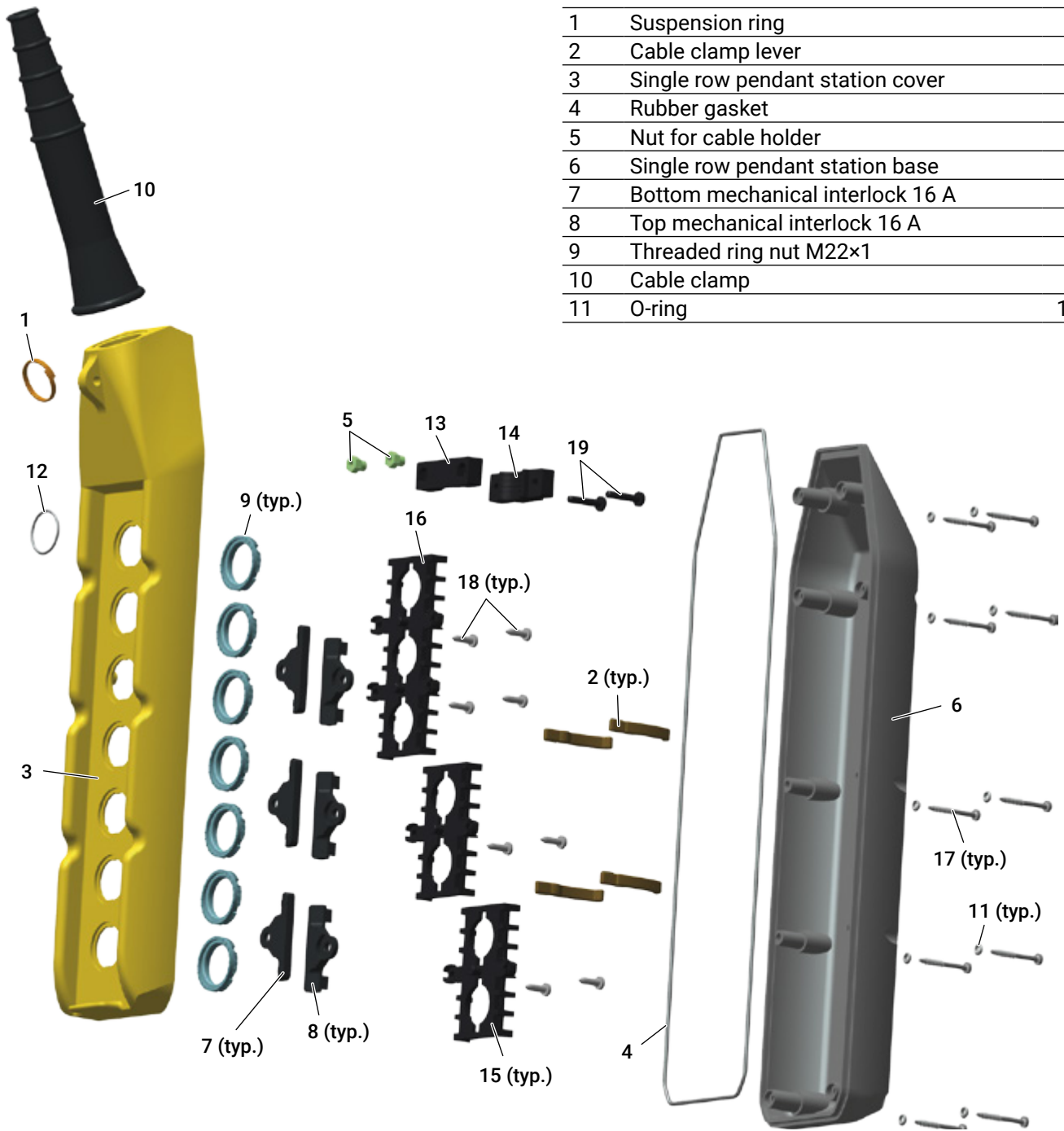
| | | |
|---|----------------------------------|-----|
| 1 | Suspension ring | 1 x |
| 2 | Cable clamp lever | 2 x |
| 3 | Single row pendant station cover | 1 x |
| 4 | Rubber gasket | 1 x |
| 5 | Nut for cable holder | 2 x |

| | | |
|----|--|-----|
| 6 | Single row pendant station base | 1 x |
| 7 | Bottom mechanical interlock 16 A | 2 x |
| 8 | Top mechanical interlock 16 A | 2 x |
| 9 | Threaded ring nut M22x1 | 5 x |
| 10 | O-ring | 8 x |
| 11 | O-ring | 1 x |
| 12 | Cable clamp | 1 x |
| 13 | Top cable holder | 1 x |
| 14 | Bottom cable holder | 1 x |
| 15 | Coupling plate with 2 holes | 1 x |
| 16 | Coupling plate with 3 holes | 1 x |
| 17 | Self-tapping screw 4x30 partial thread | 8 x |
| 18 | Crosshead self-tapping screw 3x13 | 6 x |
| 19 | Crosshead self-tapping screw | 2 x |

Components excluded that must be ordered separately:

- Operators
- Contact blocks

PL07K



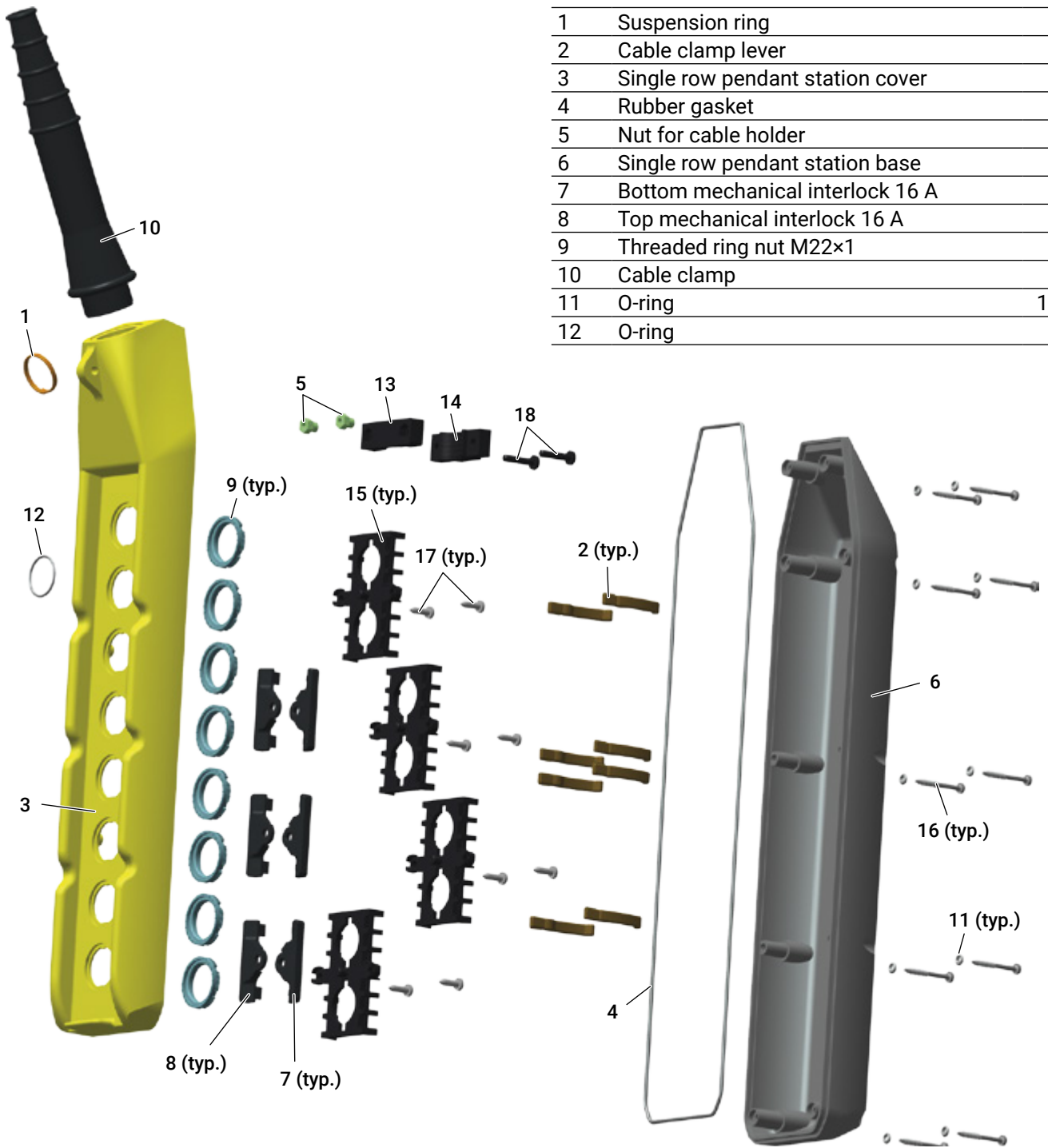
| | | |
|----|----------------------------------|------|
| 1 | Suspension ring | 1 x |
| 2 | Cable clamp lever | 4 x |
| 3 | Single row pendant station cover | 1 x |
| 4 | Rubber gasket | 1 x |
| 5 | Nut for cable holder | 2 x |
| 6 | Single row pendant station base | 1 x |
| 7 | Bottom mechanical interlock 16 A | 3 x |
| 8 | Top mechanical interlock 16 A | 3 x |
| 9 | Threaded ring nut M22x1 | 7 x |
| 10 | Cable clamp | 1 x |
| 11 | O-ring | 10 x |

| | | |
|----|--|------|
| 12 | O-ring | 1 x |
| 13 | Top cable holder | 1 x |
| 14 | Bottom cable holder | 1 x |
| 15 | Coupling plate with 2 holes | 2 x |
| 16 | Coupling plate with 3 holes | 1 x |
| 17 | Self-tapping screw 4x30 partial thread | 10 x |
| 18 | Crosshead self-tapping screw 3x13 | 8 x |
| 19 | Crosshead self-tapping screw | 2 x |

Components excluded that must be ordered separately:

- Operators
- Contact blocks

PL08K



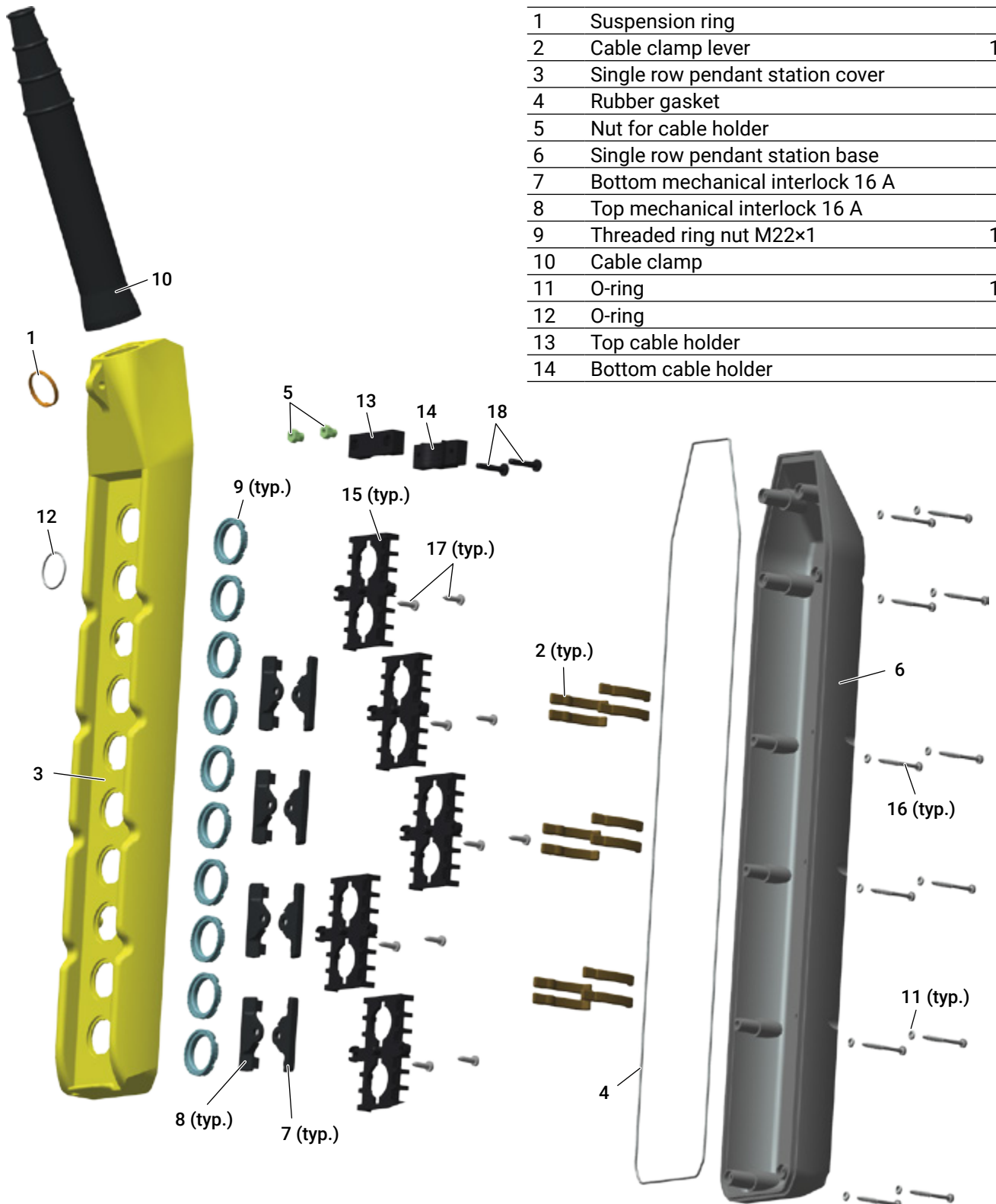
| | | |
|----|----------------------------------|------|
| 1 | Suspension ring | 1 x |
| 2 | Cable clamp lever | 8 x |
| 3 | Single row pendant station cover | 1 x |
| 4 | Rubber gasket | 1 x |
| 5 | Nut for cable holder | 2 x |
| 6 | Single row pendant station base | 1 x |
| 7 | Bottom mechanical interlock 16 A | 3 x |
| 8 | Top mechanical interlock 16 A | 3 x |
| 9 | Threaded ring nut M22x1 | 8 x |
| 10 | Cable clamp | 1 x |
| 11 | O-ring | 10 x |
| 12 | O-ring | 1 x |

| | | |
|----|--|------|
| 13 | Top cable holder | 1 x |
| 14 | Bottom cable holder | 1 x |
| 15 | Coupling plate with 2 holes | 4 x |
| 16 | Self-tapping screw 4x30 partial thread | 10 x |
| 17 | Crosshead self-tapping screw 3x13 | 8 x |
| 18 | Crosshead self-tapping screw | 2 x |

Components excluded that must be ordered separately:

- Operators
- Contact blocks

PL10K



| | | |
|----|----------------------------------|------|
| 1 | Suspension ring | 1 × |
| 2 | Cable clamp lever | 12 × |
| 3 | Single row pendant station cover | 1 × |
| 4 | Rubber gasket | 1 × |
| 5 | Nut for cable holder | 2 × |
| 6 | Single row pendant station base | 1 × |
| 7 | Bottom mechanical interlock 16 A | 4 × |
| 8 | Top mechanical interlock 16 A | 4 × |
| 9 | Threaded ring nut M22×1 | 10 × |
| 10 | Cable clamp | 1 × |
| 11 | O-ring | 12 × |
| 12 | O-ring | 1 × |
| 13 | Top cable holder | 1 × |
| 14 | Bottom cable holder | 1 × |

| | | |
|----|--|------|
| 15 | Coupling plate with 2 holes | 5 × |
| 16 | Self-tapping screw 4×30 partial thread | 12 × |
| 17 | Crosshead self-tapping screw 3×13 | 10 × |
| 18 | Crosshead self-tapping screw | 2 × |

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 |
|  |  |  |  |  | Symbols according to FEM 9.941. Customized engraving available on minimum quantity request. | | |
| PL005033 | PL005018 | PL005001 | PL005002 | PL005003 | | | |

Double speed operators (code PL...)

Pair with the contact block with the matching label

C

| | | | | | | |
|---|---|---|---|---|--|---|
|  |  |  |  |  |  | Symbols according to FEM 9.941. Customized engraving available on minimum quantity request. |
| PL005021 | PL005006 | PL005025 | PL005010 | PL005029 | PL005014 | |

Operators without wording (code PLN...)

Pair with the contact block with the matching label

A



PLN003



PLN004



PLN014



PLN013



PLN027



PLN026



PLN023



PLN021



PLN025



PLN019



PLN024



PLN022



PLN028



PLN020



PLN001



PLN002

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

Double speed operators (code PLN...)

Pair with the contact block with the matching label

C



PLN005



PLN006



PLN018



PLN017



PLN016



PLN015

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)

Neutral operators (code PLN...)

Pair with the contact block with the matching label

A



PLN009 (blue)



PLN010 (white)



PLN007 (black)



PLN008 (red)



PLN012 (green)



PLN011 (yellow)

Gems

Pair with the contact block with the matching label

B



PL008001 (red)



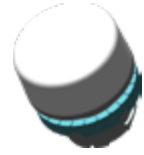
PL008002 (green)



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

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

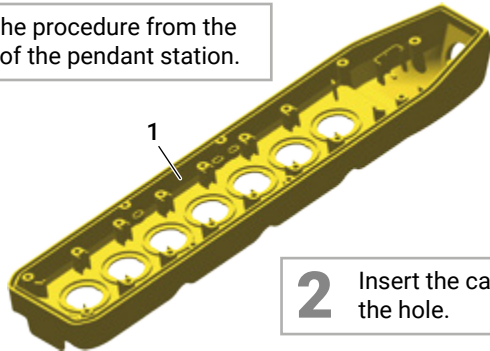


double step NO+NO
PL004010

CUSTOM PENDANT STATION ASSEMBLY

Cable clamp and cable holder

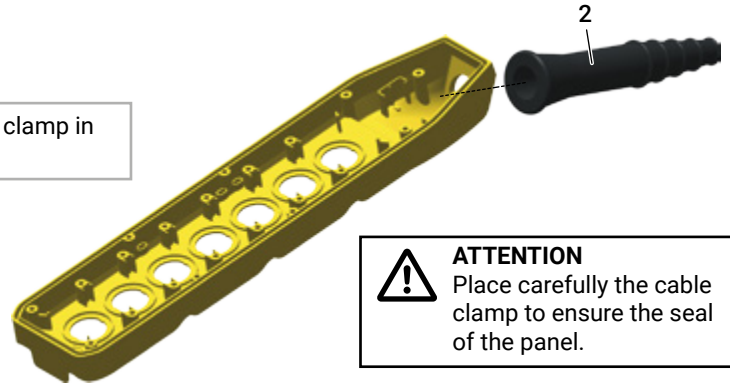
1 Start the procedure from the cover of the pendant station.



ATTENTION

The illustrations show the PL07 / PLN07 pendant station: the same operations are valid for the other pendant stations of this series.

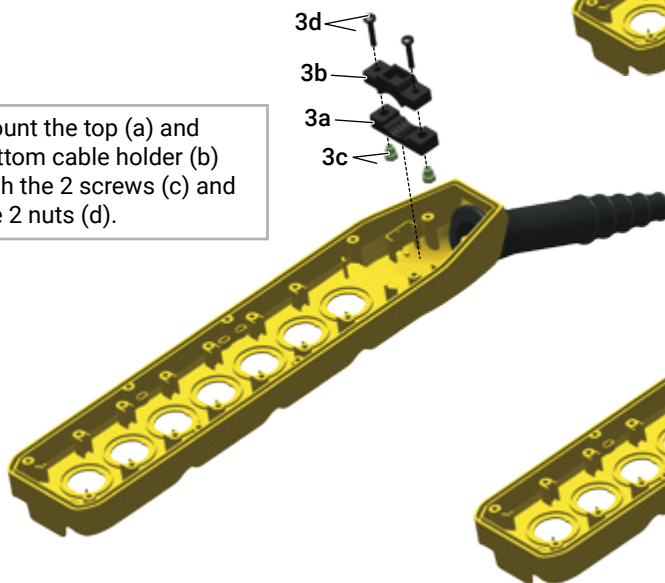
2 Insert the cable clamp in the hole.



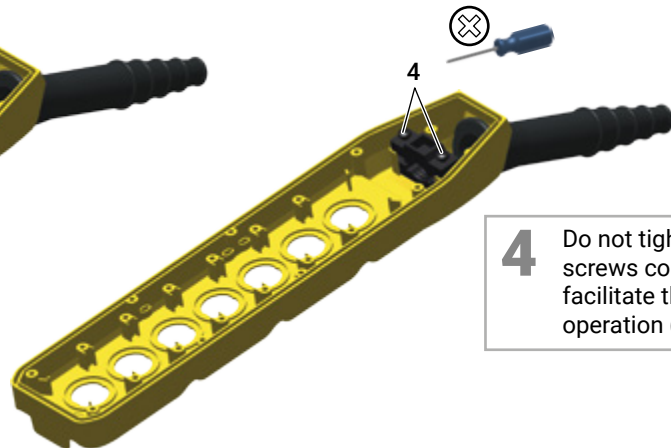
ATTENTION

Place carefully the cable clamp to ensure the seal of the panel.

3 Mount the top (a) and bottom cable holder (b) with the 2 screws (c) and the 2 nuts (d).

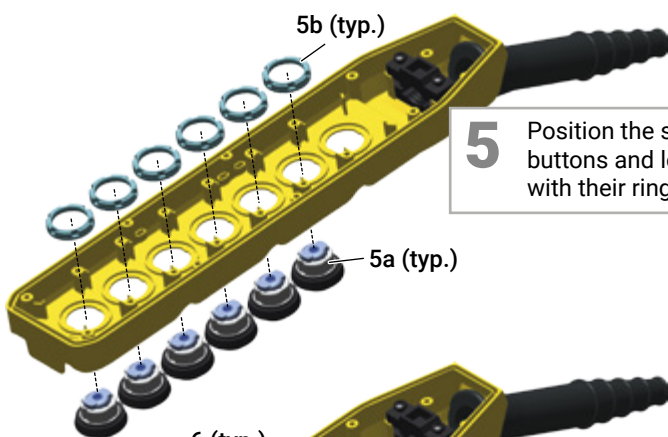


4 Do not tighten the screws completely to facilitate the wiring operation (optional).

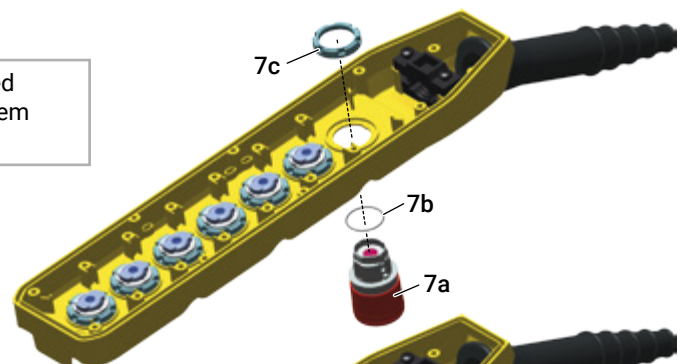


Operators

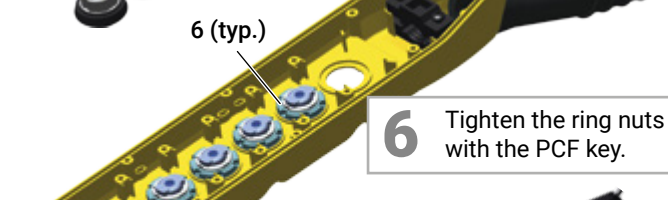
5 Position the selected buttons and lock them with their ring nuts.



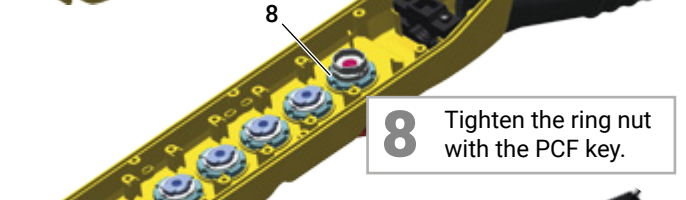
7 Position the mushroom operator (a) interposing the o-ring (b) and lock it with the ring nut (c).



6 Tighten the ring nuts with the PCF key.



8 Tighten the ring nut with the PCF key.



TIGHTENING TORQUE

2.25-2.8 N×m
20-25 lb×in

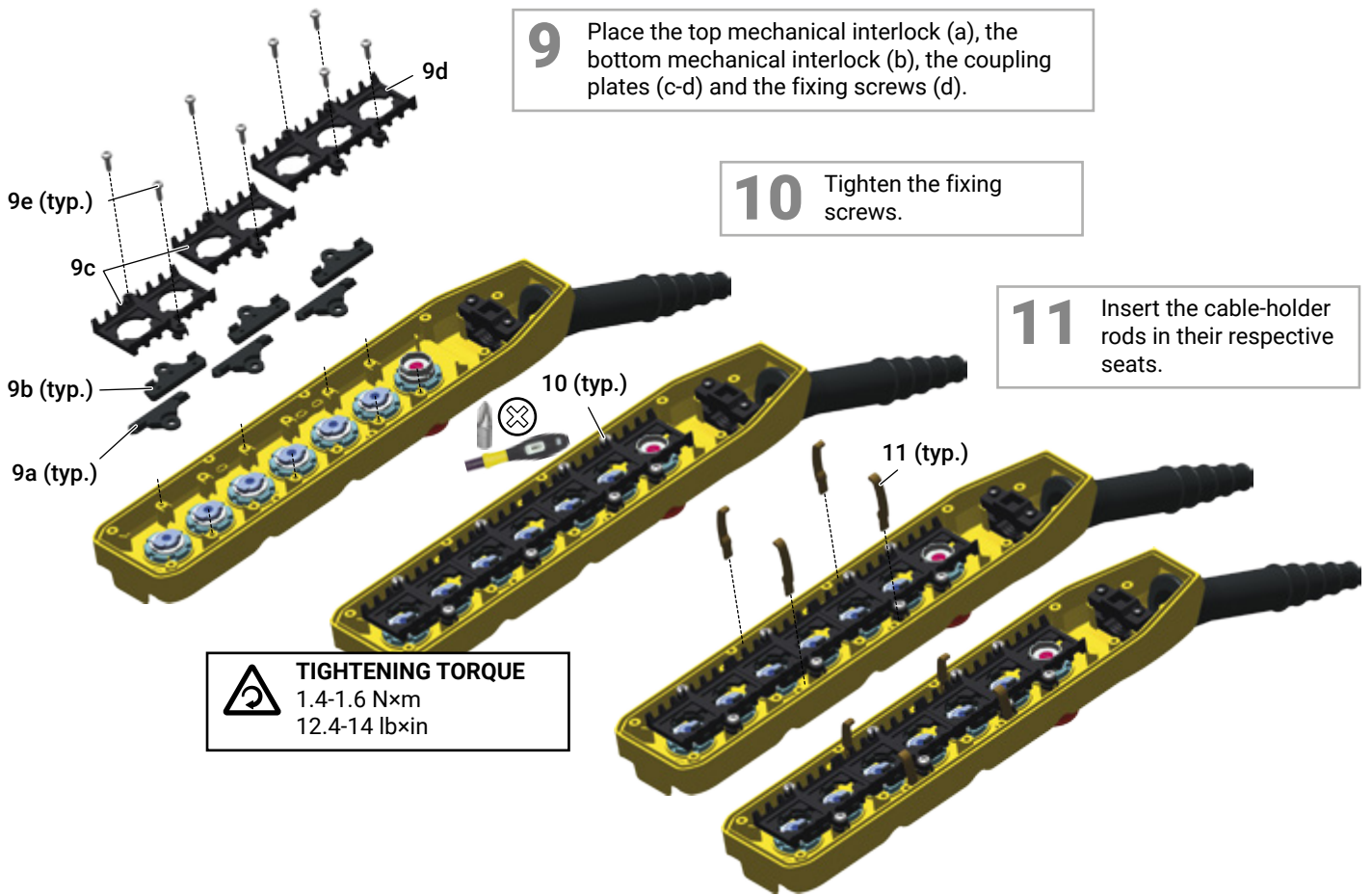


TIGHTENING TORQUE

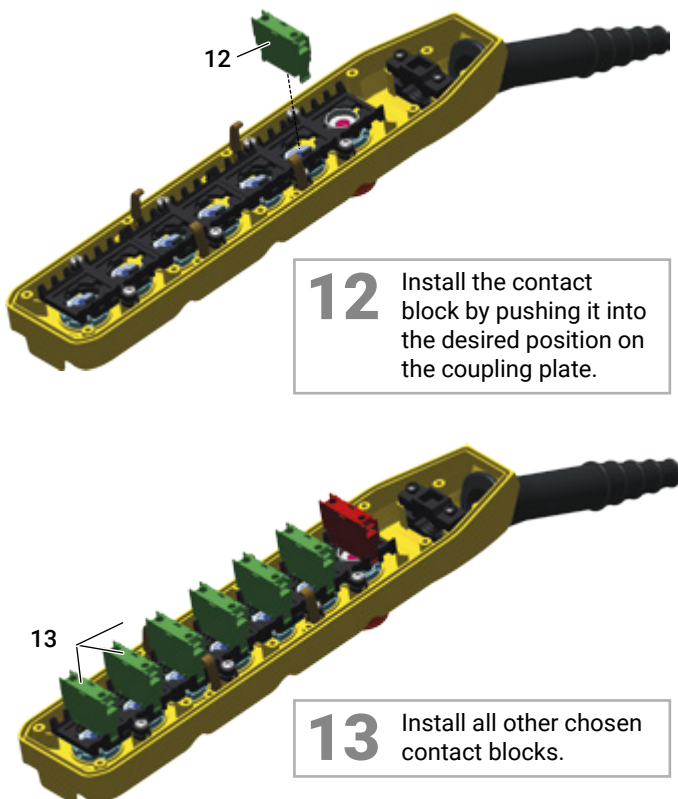
2.25-2.8 N×m
20-25 lb×in



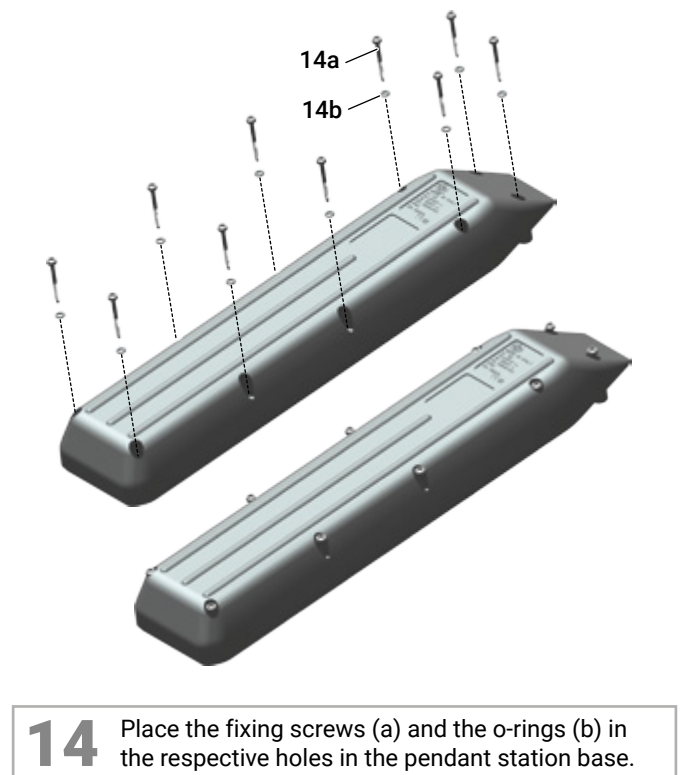
Coupling plates and cable clamp levers



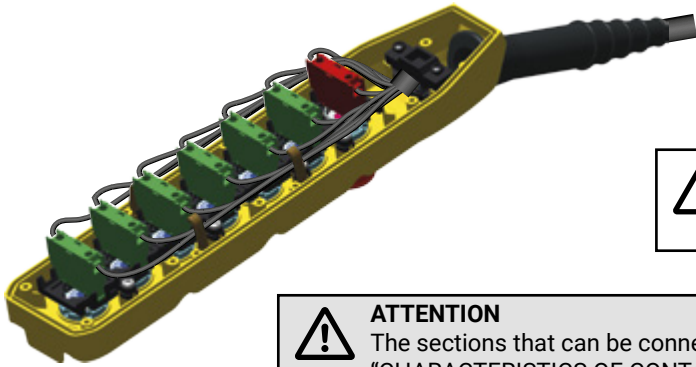
Contact blocks



Pendant station base



Wiring



ATTENTION

Wiring is optional and can be carried out later.



ATTENTION

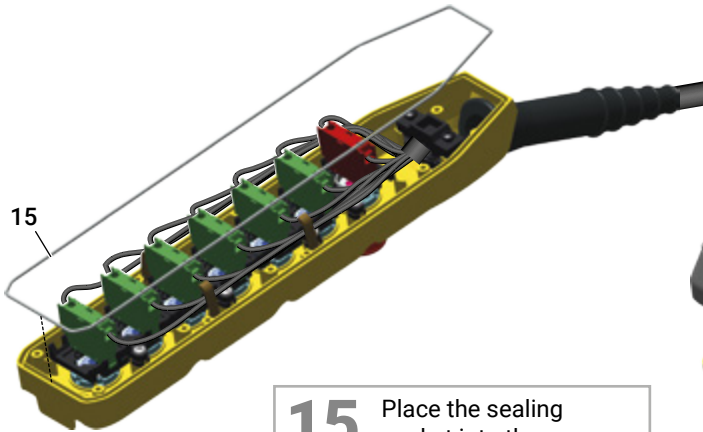
Wire as shown in the paragraph "STANDARD VERSIONS WIRING" on page 9



ATTENTION

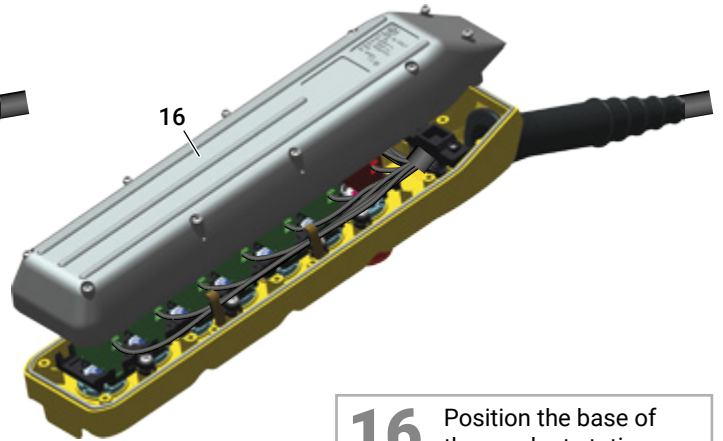
The sections that can be connected to the contact blocks are shown in the paragraph "CHARACTERISTICS OF CONTACT BLOCKS FOR STANDARD VERSIONS" on page 10 e nel paragrafo "CHARACTERISTICS OF ADDITIONAL CONTACT BLOCKS" on page 25

Close the pendant station



15

Place the sealing gasket into the groove.



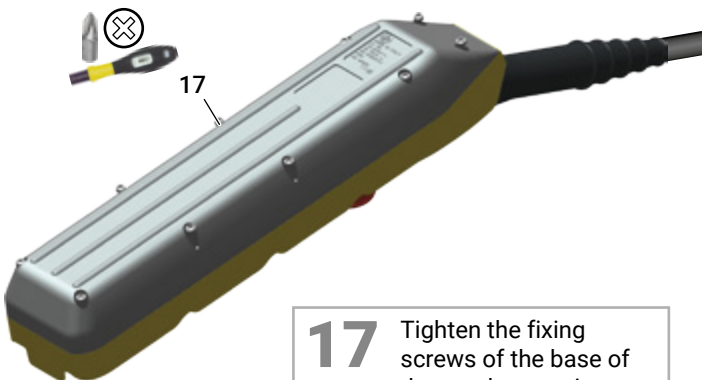
16

Position the base of the pendant station.



ATTENTION

Carefully position the sealing gasket to ensure tightness.



17

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



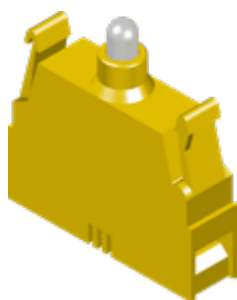
TIGHTENING TORQUE

1.3-1.7 N×m
11.5-15 lb×in



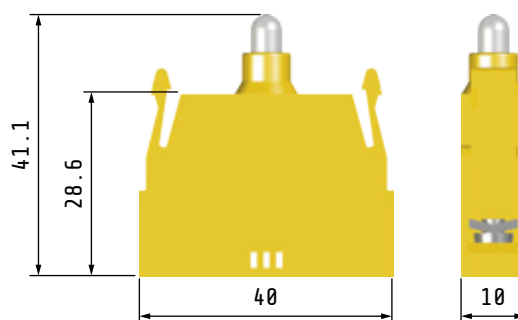
CHARACTERISTICS OF ADDITIONAL CONTACT BLOCKS

PL0045L...



Yellow

Contact block with screw terminals



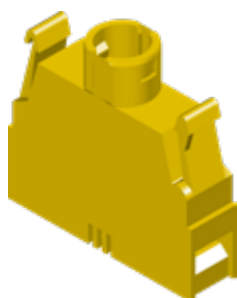
Scheme



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 |

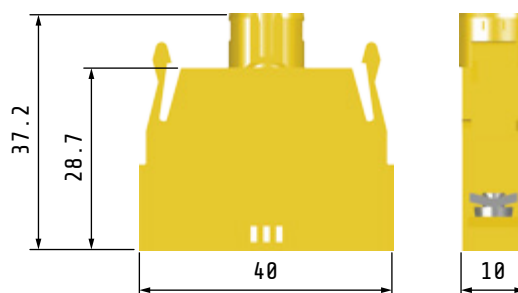
PL004007



Yellow

Contact block with screw terminals

Light bulb non included



Scheme



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

