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I FARN MORE





translation of the original instructions





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CHARACTERISTICS OF ADDITIONAL
CONTACT BLOCKS

#### PENDANT / FIXED STATION



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.



TLP pendant / fixed 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
- Contact blocks with spring terminals
- · 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.

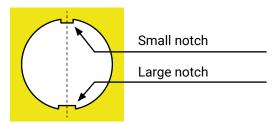


DANGER, the information highlighted by this symbol concerns environments with a potentially explosive atmosphere or the presence of corrosive substances and salt fog.



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**).

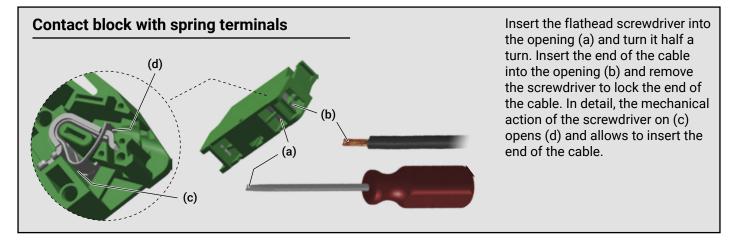


#### **ATTENTION**

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

# **Tools required (not supplied)**





# **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		cable gland M20
Weight		120 314 g

#### **Versions**

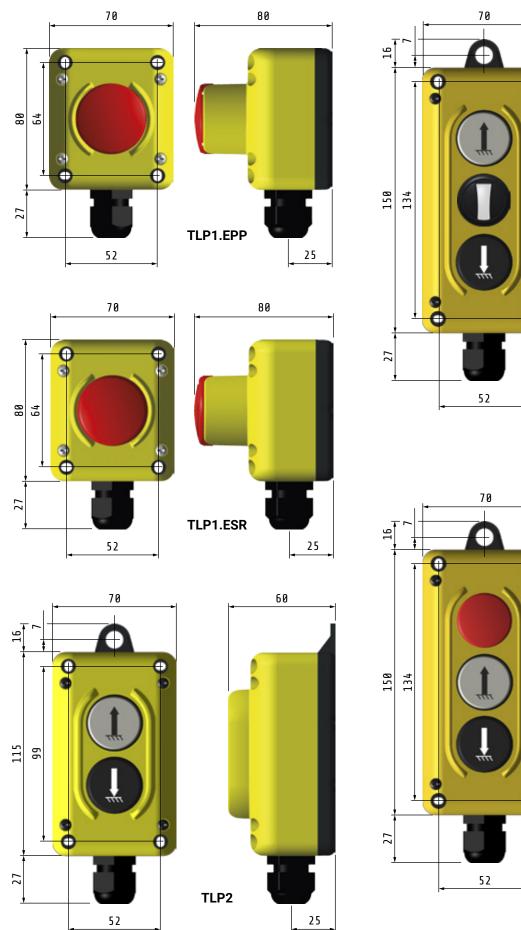
- TLP1.EPP TLP1.ESR
- · TLP2
- TLP3.B TLP3.D
- TLP4.E TLP4.C

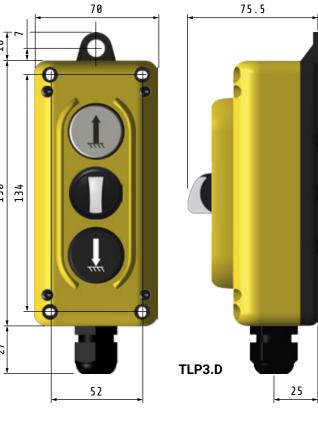
# **Compliance and certifications**

- 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**

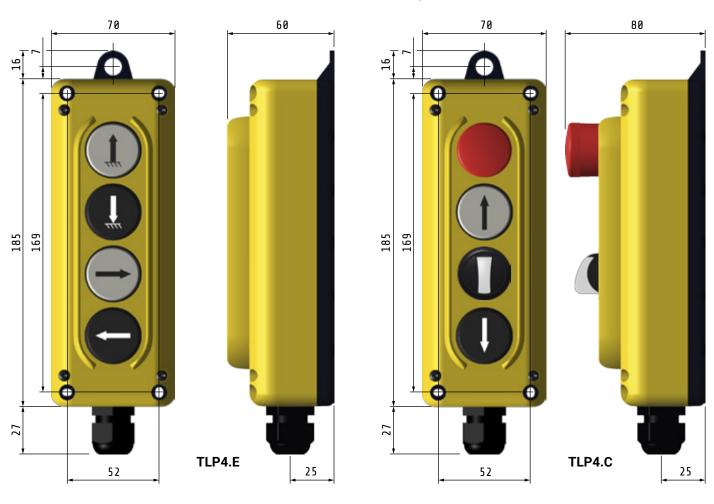
# Dimensions in mm Drawing NOT in scale



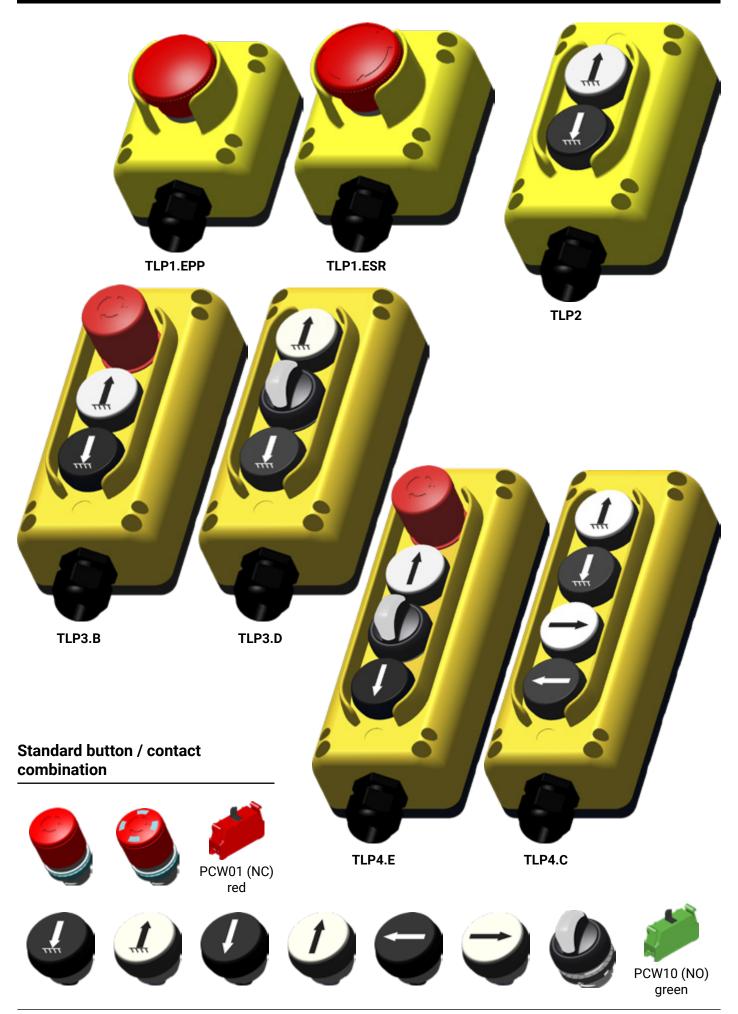


80

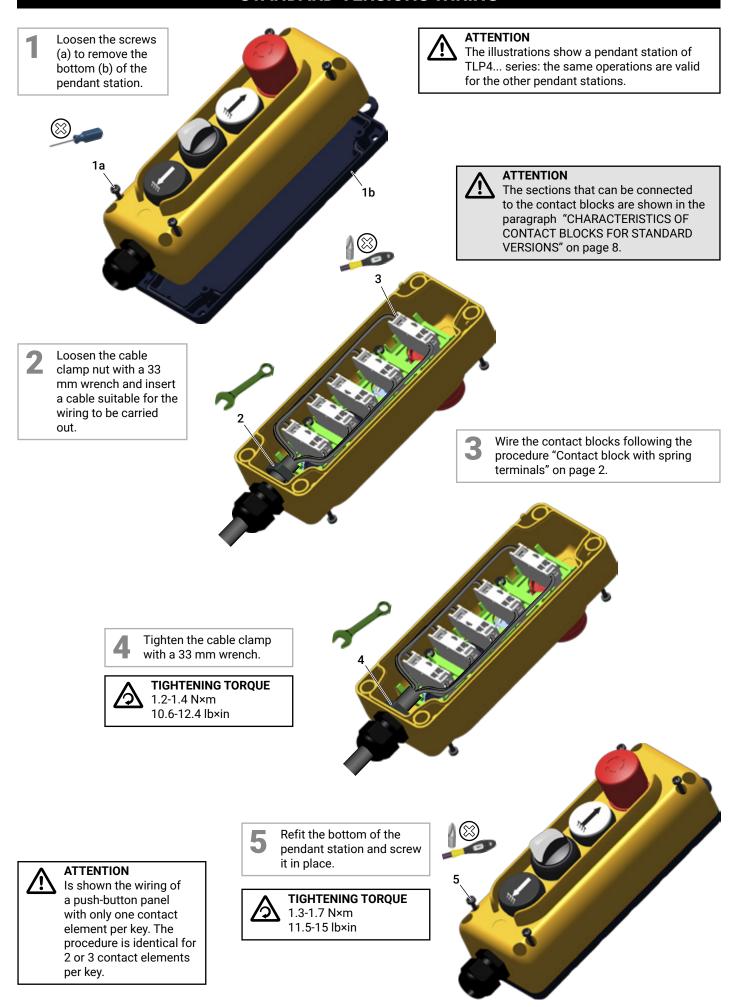
# Dimensions in mm Drawing NOT in scale



# **STANDARD VERSIONS**

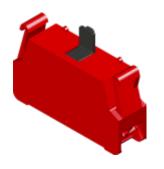


# **STANDARD VERSIONS WIRING**



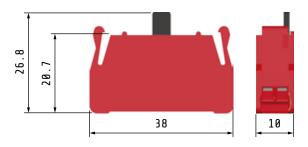
# **CHARACTERISTICS OF CONTACT BLOCKS**

# **PCW01**



NC Red

Contact block with spring terminals



Function	S	Scheme
0 1.5	6 mm	2















Rated insulation voltage	Ui	690 \	/*							
Rated impulse withstand voltage	Uimp	4 kV	*							
Frequency		50/6	0 Hz *							
Rated thermal current	lth	16 A	*							
Rated operating current	Ithe	10 A								
Rated operating current	le									
AC-15 alternate current		24	60	110	240	400	440	500	690	V
		16*	12	5	5*	4	4	4*	2*	A
DC-13 direct current		24	48	60	110	) 25	50 2	20 \	/	
		2	2*	1*	0.4	0.	4* 0	.25 A	4	
Minimum constant current		1 mA	(@ 5 \	/dc, 1 r	mA @ 2	24 Vdc	;			
Conditional short circuit withstand current		1000	Α*							
Fuses rating gG		10 A	* - 500	) V						
Contact insulation resistance		≤ 25	mΩ							
Switching mechanism		slow	break	double	e gap c	ontac <sup>.</sup>	ts			
Positive operation		NC c	ontact	block	€					
Operating force		4 N								
Electric durability AC-15		1	2	3	Δ					
		1.5	0.5	0.:	25 n	nillions	s of cy	cles		
Terminal type		sprin	g cont	acts						
Terminal capactity		No. 1	or 2 f	lexible	and so	olid co	nducto	or 1 2	2.5 mm	2
		12-18	3 AWG	i						
UL508 characteristics										
Rated insulation voltage	Ui	10 A	- 600 '	Vac/2	2.5 A -	125 V	dc			
Rated impulse withstand voltage	Uimp	A600	- Q60	0						

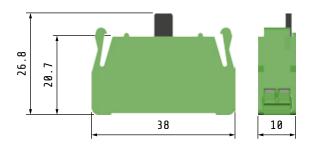
<sup>\*</sup> IMQ approved values

# PCW10



NO Green

Contact block with spring terminals



	Functions		Scheme
0	3.5	6 mm	4 3















Rated insulation voltage	Ui	690 \	/ *							
Rated impulse withstand voltage	Uimp	4 kV	*							
Frequency	-	50/60	) Hz *							
Rated thermal current	lth	16 A	*							
Rated operating current	Ithe	10 A								
Rated operating current	le									
AC-15 alternate current		24	60	110	240	400	440	500	690	V
		16*	12	5	5*	4	4	4*	2*	Α
DC-13 direct current		24	48	60	11	0 25	0 V			
		2	2*	1*	0.4		-			
Minimum constant current		1 mA	@5\	/dc, 1 r	nA @ 2	24 Vdc				
Conditional short circuit withstand current		1000	A *							
Fuses rating gG		10 A	* - 500	) V						
Contact insulation resistance		≤ 25 ।	mΩ							
Switching mechanism		slow	break	double	e gap c	ontact	S			
Operating force		4 N								
Electric durability AC-15		1	2	3	A	١				
		1.5	0.5	0.:	25 r	nillions	of cy	cles		
Terminal type		sprin	g cont	acts						
Terminal capactity		No. 1	or 2 f	lexible	and s	olid co	nducto	or 1 2	2.5 mm	l <sup>2</sup>
UL508 characteristics										
Rated insulation voltage	Ui	10 A	600 '	Vac/	2.5 A -	125 V	dc			
Rated impulse withstand voltage	Uimp	A600	- Q60	0						

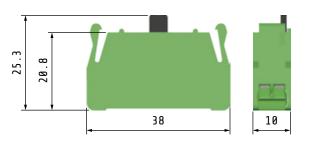
<sup>\*</sup> IMQ approved values

# PCW02



NO Green

Contact block with spring terminals



	Functions		Scheme
0	3.5	6 mm	4 3













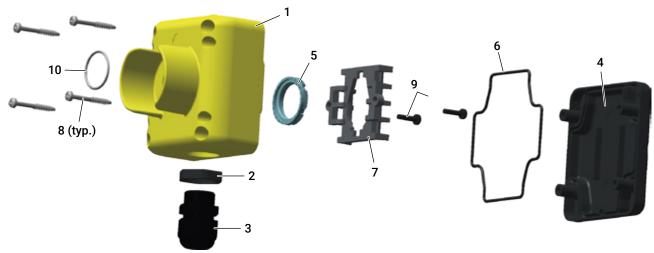


Rated insulation voltage	Ui	690 \	/ *							
Rated impulse withstand voltage	Uimp	4 kV	*							
Frequency		50/6	) Hz *							
Rated thermal current	lth	16 A	*							
Rated operating current	Ithe	10 A								
Rated operating current	le									
AC-15 alternate current		24	60	110	240	400	440	500	690	V
		16*	12	5	5*	4	4	4*	2*	A
DC-13 direct current		24	48	60	110	0 25	50 V			
		2	2*	1*	0.4	0.4	4* A			
Conditional short circuit withstand current	C € ② ± Ⅲ ⊕ - ⑤ - ④ 11 10 10 10 10 10 10 10 10 10 10 10 10 1	1000	A *							
Fuses rating gG		10 A	* - 500	) V						
Contact insulation resistance		≤ 25	mΩ							
Switching mechanism		snap	break							
Operating force		4 N								
Electric durability AC-15		1	2	3	Δ	١				
		1.5	0.5	0.2	25 n	nillions	of cy	cles		
Terminal type		vite N	<i>I</i> 3.5							
Terminal capactity		No. 1	or 2 f	lexible	and so	olid co	nducto	or 1 2	2.5 mm	2
UL508 characteristics										
Rated insulation voltage	Ui	10 A	- 600 \	/ ac / 2	2.5 A -	125 V	dc			
Rated impulse withstand voltage	Uimp	A 6 0 0	- Q60	Λ						

<sup>\*</sup> IMQ approved values

# **CUSTOM KIT**

# TLP2K



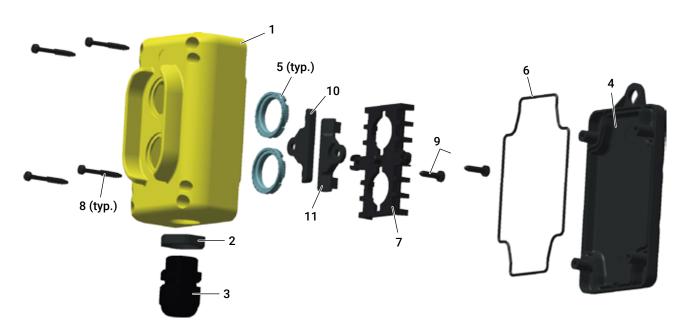
1	Pendant station cover	1×
2	Nut M20×1.5	1×
3	Cable clamp	1×
4	Pendant station base	1×
5	Threaded ring nut M22×1	1×
6	Gasket	1×
7	4 spring contact blocks support	1×

8	Self-tapping screw 4×30 partial thread	4×
9	Self-tapping screw 3.5×9.5	2×
10	O-ring	1×

Components excluded that must be ordered separately:

- OperatorsContact blocks

# TLP3K



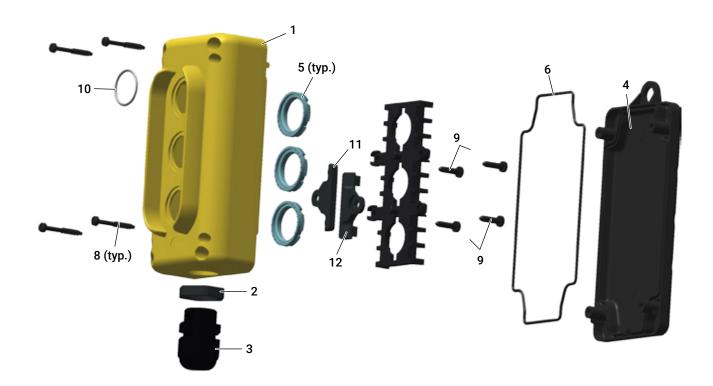
1	Pendant station cover	1×
2	Nut M20×1.5	1×
3	Cable clamp	1×
4	Pendant station base	1×
5	Threaded ring nut M22×1	2×
6	Gasket	1×
7	Coupling plate with 2 holes	1×

8	Self-tapping screw 4×30 partial thread	4×
9	Self-tapping screw 3.5×9.5	2×
10	Bottom mechanical interlock 16 A	1×
11	Top mechanical interlock 16 A	1×

Components excluded that must be ordered separately:

- Operators
- Contact blocks

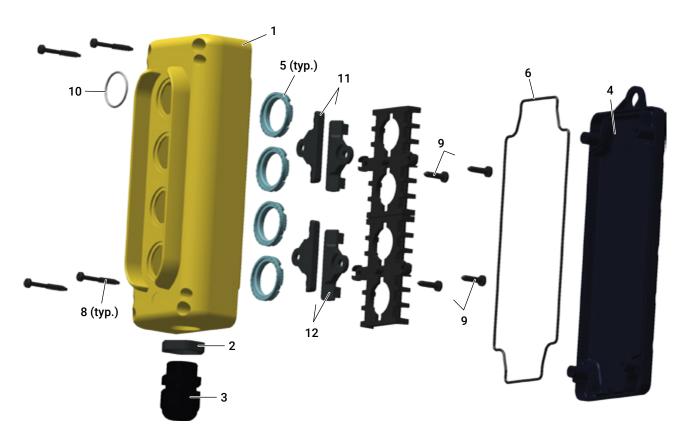
# TLP3K



1	Pendant station cover	1×
2	Nut M20×1.5	1×
3	Cable clamp	1×
3 4 5	Pendant station base	1×
5	Threaded ring nut M22×1	3×
6	Gasket	1×
7	Coupling plate with 3 holes	1×
8	Self-tapping screw 4×30 partial thread	4×
9	Self-tapping screw 3.5×9.5	4×
10	O-ring	1×
11	Bottom mechanical interlock 16 A	1×
12	Top mechanical interlock 16 A	1×

Components excluded that must be ordered separately:
Operators
Contact blocks

# TLP4K



1	Pendant station cover	1×
2	Nut M20×1.5	1×
3	Cable clamp	1×
4	Pendant station base	1×
5	Threaded ring nut M22×1	4×
6	Gasket	1×
7	Coupling plate with 2 holes	2×
8	Self-tapping screw 4×30 partial thread	4×
9	Self-tapping screw 3.5×9.5	4×
10	O-ring	1×
11	Bottom mechanical interlock 16 A	2×
12	Top mechanical interlock 16 A	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



















PL005019



PL005020

PL005005

PL005031

PL005016

PL005027

PL005012

















PL005028

PL005013

PL005032

PL005017

PL005023

PL005008

PL005024

PL005009









PL005033

PL005018

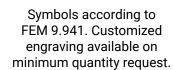
PL005033

PL005018









PL005001

PL005002

PL005003

# **Neutral operators (code PL...)**

Pair with the contact block with the matching label















PL005034 (blue)

PL005035 (white) PL005036 (black)

PL005037 (red)

PL005038 (green) PL005039 (yellow)

Gems

Pair with the contact block with the matching label













PL008001 (red)

PL008002 (green)

PL008003 (yellow)

PL008004 (blue)

PL008005 (white)

# **Mushrooms and selectors**

Pair with the contact block with the matching label

Handle selector



Emergency momentary

Emergency mushroom Ø40 mushroom Ø40 key unlock

Emergency mushroom Ø30 rotation unlock

**Emergency** mushroom Ø30 rotation unlock



Handle selector with removable key in "0"







PPFN1C4NX



PL013001 with vision



PL013002 standard



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



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

### Other components



Hole plug









GIOVENZANA INTERNATIONAL B.V. - MAN0007-EN / 04.03.2020 - Rev. 1

# **CONTACT BLOCK FOR CUSTOM KIT**

### **Contact blocks**

Pair with the operator with the matching label









NO PCW10

# Lights

Pair with the operator with the matching label





PCW5L12 (AC/DC 12 V) PCW5L24 (AC/DC 24 V) PCW5L48 (AC/DC 48 V) PCW5L110 (AC/DC 110 V) PCW5L220 (AC 220 V)



**PCWAD** 

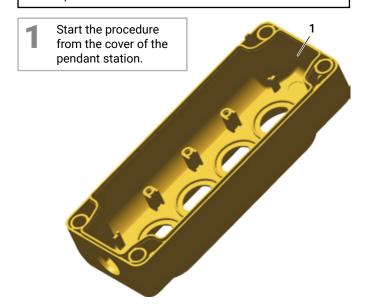
# **CUSTOM PENDANT STATION ASSEMBLY**

# Cable clamp

# $\triangle$

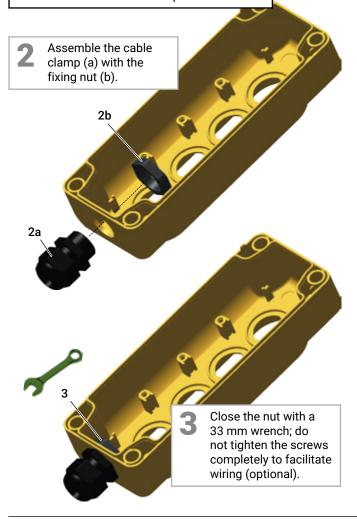
#### **ATTENTION**

The illustrations show a pendant station of TLP4... series: the same operations are valid for the other pendant stations.

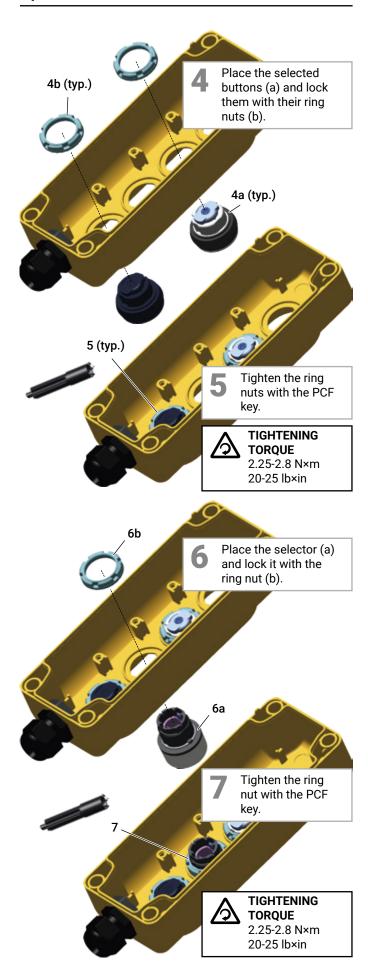


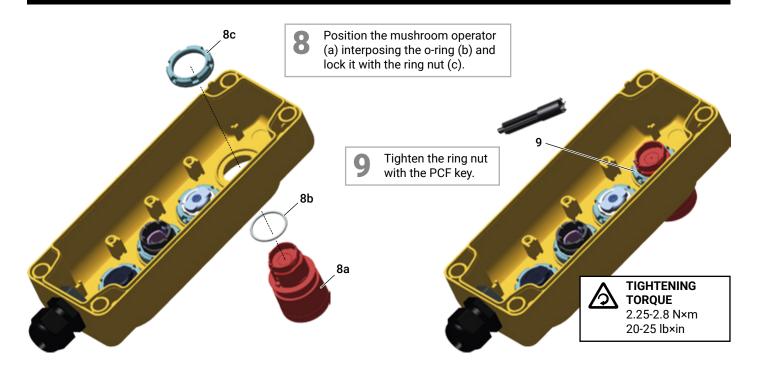
#### ATTENTION

Place carefully the cable clamp to ensure the seal of the pendant station.

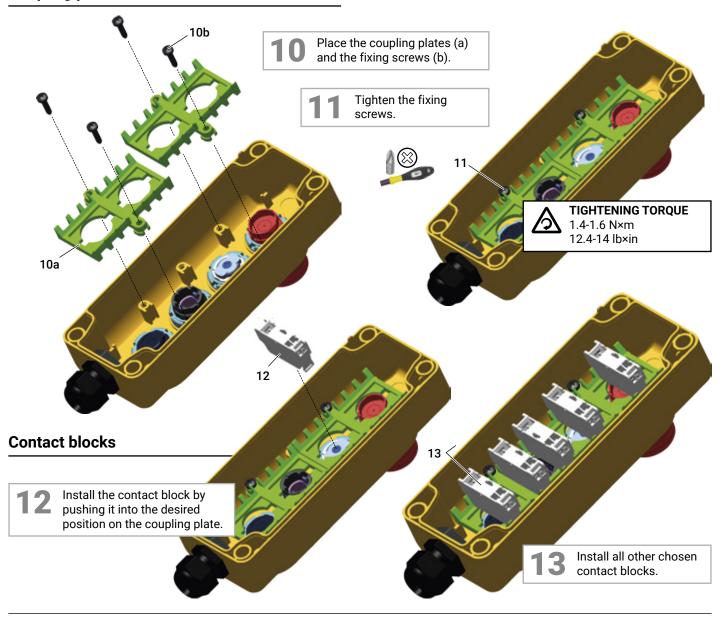


### **Operators**





# **Coupling plates**



### Wiring



#### ATTENTION

Wiring is optional and can be carried out later.



#### **ATTENTION**

Wire as shown in the paragraph "STANDARD VERSIONS WIRING" on page 7



#### **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 8 e nel paragrafo "CHARACTERISTICS OF ADDITIONAL CONTACT BLOCKS" on page 20

### Pendant station base





Carefully position the sealing gasket to ensure tightness.

# Close the pendant station





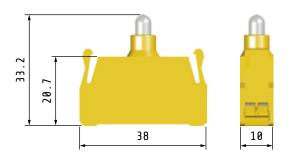
# **CHARACTERISTICS OF ADDITIONAL CONTACT BLOCKS**

### PCW5L...



Yellow

Contact block with spring terminals



















Power supply	PCW5L12	AC/DC 12 V	
	PCW5L24	AC/DC 24 V	
	PCW5L48	AC/DC 48 V	
	PCW5L110	AC/DC 110 V	
	PCW5L220	AC 220 V	

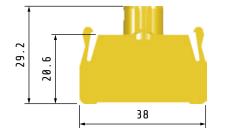
# **PCWAD**



Yellow

Contact block with spring terminals

Light bulb non included





Scheme













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