



ALPHA

PENDANT CONTROL STATION

The Alpha pendant control station is a control device for all industrial machinery. It operates as an auxiliary controller of electrical motors through a power interface, such as a contactor or PLC. Designed for heavy duty, Alpha is aimed specifically for the industrial market.

DESIGN

Alpha has an innovative design, where all graphic elements are linked to specific technical functions. Size and shape, resulting from a thorough analysis of the ergonomic features of the product, combined with the research of a graphic style suitable for a modern industrial environment, make Alpha easy to operate. Alpha has been designed to facilitate wiring and maintenance, thus reducing time for the first installation and saving on costs.

The pendant station has an angle of inclination which allows the best view of all control elements, allowing the operator to work in a natural and non-tiring position. It is ideal for all environmental and working conditions due to the extremely reduced overall dimensions and the antislip lines on the enclosure.

FEATURES

Alpha is available with 2 to 13 buttons arranged on a double row to allow for pairing of opposite functions and reducing overall dimensions.

The space available for the conductors is dimensioned for a 48 x 1.5 mm² or 30 x 2.5 mm² cable. All switches have terminals facing the cable clamp of the pendant station and screws on the opposite side to facilitate wiring. All electric connections use screw-type terminals.

The emergency stop mushroom pushbutton complies with the EN 418 standard and it is equipped with positive opening NC switches.

MATERIALS

Materials and components are wear resistant and protect the equipment against water and dust. Alpha can be customised with labels and colours according to the customer's requirements.



**INDUSTRIAL
LIFTING**



**CONSTRUCTION
LIFTING**



**INDUSTRIAL
AUTOMATION**



**STAGE
TECHNOLOGY**

STANDARDS - MARKINGS - HOMOLOGATIONS

- Conformity to Community Directives:
2006/95/CE: Low Voltage Directive
2006/42/CE: Machinery Directive
- Conformity to Standards:
EN 60204-1 Safety of machinery - Electrical equipment of machines
EN 60947-1 Low-voltage switchgear and controlgear

EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices

EN 60529 Degrees of protection provided by enclosures

EN 418 Safety of machinery - Emergency stop equipment, functional aspects

- Markings and homologations: CE

GENERAL TECHNICAL SPECIFICATIONS

- Storage ambient temperature: $-40^{\circ}\text{C}/+70^{\circ}\text{C}$
- Operational ambient temperature: $-25^{\circ}\text{C}/+70^{\circ}\text{C}$
- Protection degree: IP 65
- Insulation category: Class II

- Cable entry: rubber cable sleeve ($\text{Ø } 14 \times 26 \text{ mm}$)

- Operating positions: any position

- Markings and homologations: CE

TECHNICAL SPECIFICATIONS OF THE MICROSWITCHES

- Utilisation category: AC 15
- Rated operational current: 3 A
- Rated operational voltage: 250 V
- Rated thermal current: 10 A
- Rated insulation voltage: 500 V~
- Mechanical life: 0.5×10^6 operations
- Terminal referencing: according to EN 50013
- Connections: screw-type terminals
- Wires: $1 \times 2.5 \text{ mm}^2$, $2 \times 1.5 \text{ mm}^2$
(UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)
- Tightening torque: 0.6 Nm
- Markings and homologations: CE UL

The single switches PRSL1000PI and PRSL1001PI have 1 NO or 1 NC contact with 2 connecting terminals.

The double switch PRSL1002PI (1 speed) has:

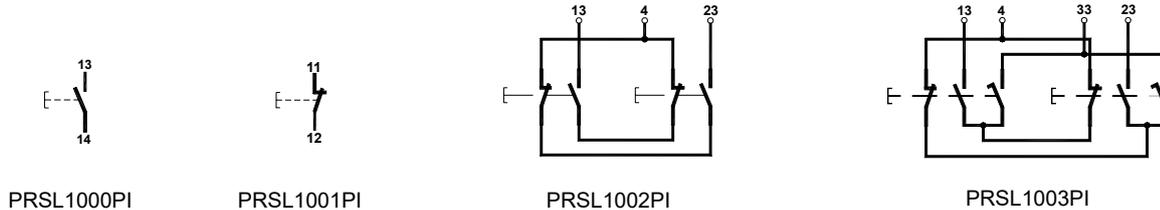
- 1 NO contact with 1 connecting terminal for each opposite function
- 1 single terminal for both functions
- electrical interlock.

The double switch PRSL1003PI (2 speeds) has:

- 1 NO contact with 1 connecting terminal for the first speed for each opposite function
- 1 NO contact with 1 connecting terminal for the second speed for both functions
- 1 single terminal for both functions
- electrical interlock.

All NC contacts are of the positive opening operation type.

The switches have the following reference for internal wiring.



OVERALL DIMENSIONS (MM)



No. of buttons	Length (mm)
	A
4 - 5	220
8 - 9	320
12 -13	382

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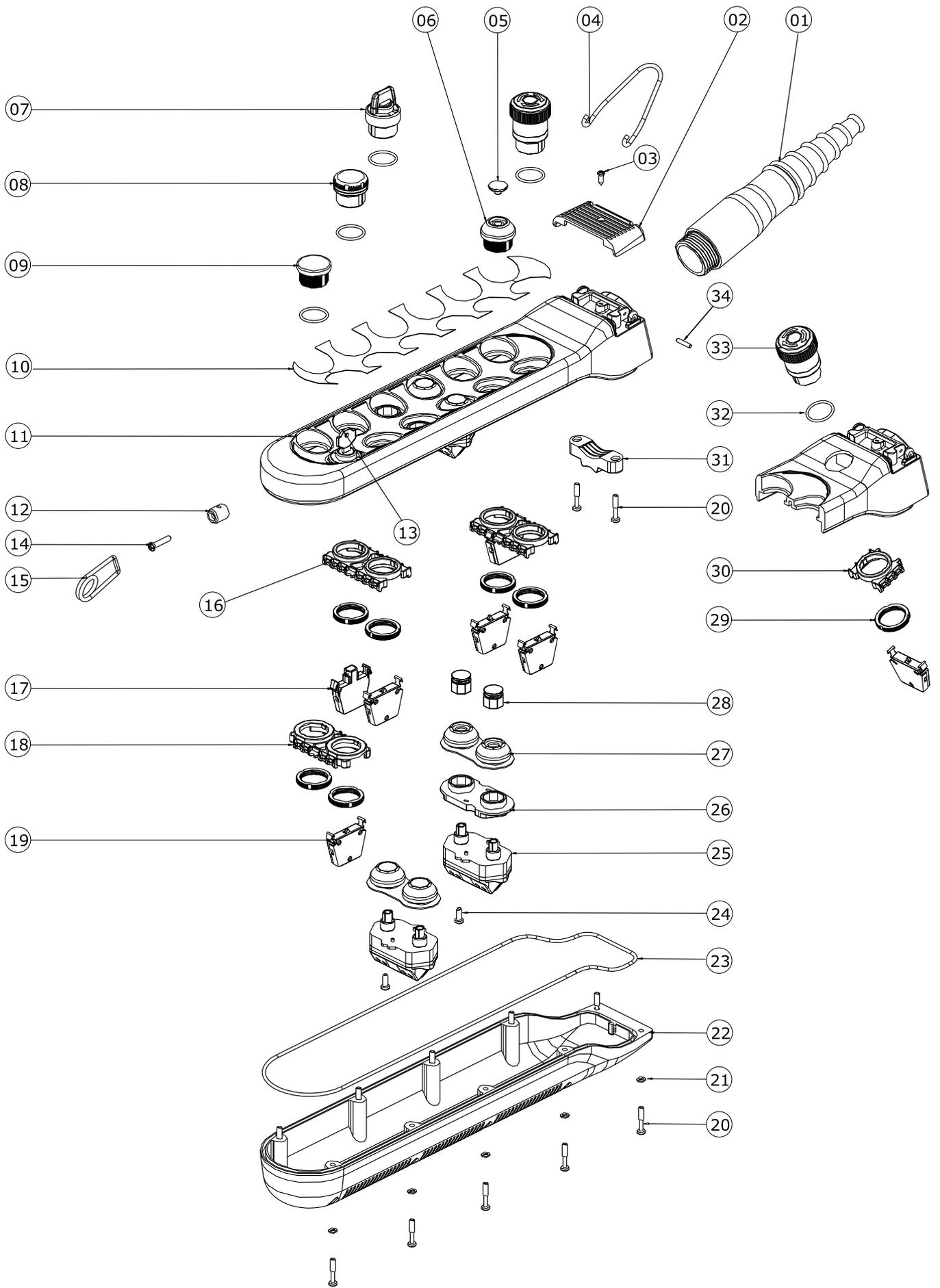
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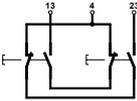
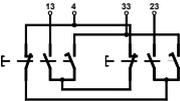
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COMPONENTS

SWITCHES

REF	DRAWING	DESCRIPTION	SCHEME	CODE
17		Lamp holder	-	PRSL1004PI
19		NO switch		PRSL1000PI
		NC switch		PRSL1001PI
25		1NO+1NO+common 1 speed double switch		PRSL1002PI
		1NO+1NO+1NO+common 2 speed double switch		PRSL1003PI

ACTUATORS

REF	DRAWING	DESCRIPTION	CODE
05+06+29		Single pushbutton	PRTS000001
09+32+29		Blanking plug	PRSL1023PI
26		Holding plate for rubber	PRSL8737PI
27+28		Double pushbutton	PRTD000001

PILOT LIGHTS

REF	DRAWING	DESCRIPTION	CODE
08+32+29		Red pilot light	PRSL1012PI
		Yellow pilot light	PRSL1013PI
		Green pilot light	PRSL1014PI

MUSHROOM PUSHBUTTONS

REF	DRAWING	DESCRIPTION	CODE
33+32+29		Emergency stop mushroom pushbutton	PRSL1009PI

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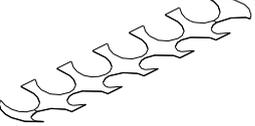
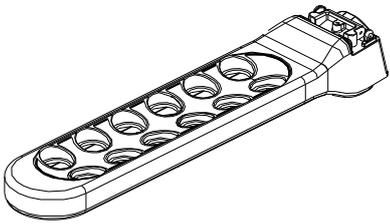
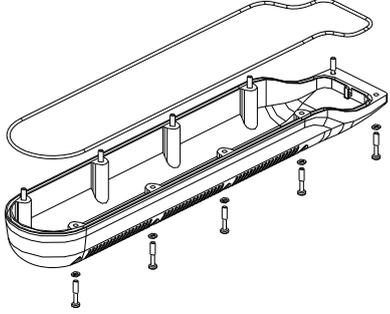
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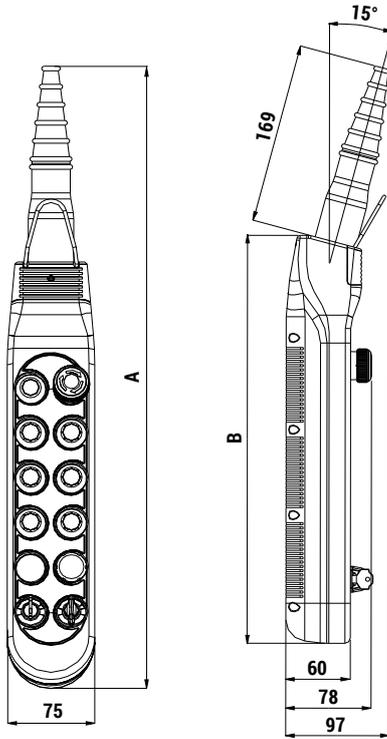
SELECTOR SWITCHES

REF	DRAWING	DESCRIPTION	CODE
07+32+29		Spring return selector switch 0/1	PRSL1015PI
		Maintained positions selector switch 0/1	PRSL1016PI
		Spring return selector switch 1/0/2	PRSL1026PI
		Maintained positions selector switch 1/0/2	PRSL1027PI
13+32+29		Maintained positions key selector switch 0/1	PRSL1017PI
		Spring return key selector switch 0/1	PRSL1024PI

ACCESSORIES

REF	DRAWING	DESCRIPTION	CODE
01		Cable sleeve	PRSL0145PE
02		Cable cover	PRSL5603PI
04		Hook	PRGA0020PE
10		Label	ET38xxxxx Codes on request
11		Cover 2/4 actuators	PRSL5607PI
		Cover 3/5 actuators	PRSL5611PI
		Cover 6/8 actuators	PRSL5608PI
		Cover 7/9 actuators	PRSL5612PI
		Cover 10/12 actuators	PRSL5609PI
		Cover 11/13 actuators	PRSL5613PI
15		Lower hook	PRGA0051PE
16		Holding plate for 3+3 switches	PRSL8736PI
18		Holding plate for 2+2 switches	PRSL8735PI
23+22+21+20		Enclosure 2/3/4/5 actuators	PRSL5066PI
		Enclosure 6/7/8/9 actuators	PRSL5067PI
		Enclosure 10/11/12/13 actuators	PRSL5068PI
30		Holding plate for 3 switches	PRSL8739PI
31+20		Cable clamp	PRSL1020PI

OVERALL DIMENSIONS (MM)



No. of buttons	Length (mm)
	A
4 - 5	220
8 - 9	320
12 -13	382

STANDARD PENDANT CONTROL STATION

2-3 AGTUATORS

PF3802002		PF3802005		PF3803001		PF3803002	
Cable sleeve		Cable sleeve		Cable sleeve		Cable sleeve	
Pushbutton	Pushbutton	Pushbutton	Pushbutton	Mushroom pushbutton Switch PRSL1001PI		Mushroom pushbutton Switch PRSL1001PI	
Switch PRSL1003PI	Switch PRSL1003PI	Switch PRSL1002PI	Switch PRSL1002PI	Pushbutton	Pushbutton	Pushbutton	Pushbutton
Blanking plug	Blanking plug	Blanking plug	Blanking plug	Switch PRSL1002PI	Switch PRSL1002PI	Switch PRSL1003PI	Switch PRSL1003PI
				Blanking plug	Blanking plug	Blanking plug	Blanking plug

4-5 AGTUATORS

PF38040002		PF38040003		PF38040004		PF38040006	
Cable sleeve		Cable sleeve		Cable sleeve		Cable sleeve	
Pushbutton	Mushroom pushbutton	Pushbutton	Mushroom pushbutton	Pushbutton	Pushbutton	Pushbutton	Pushbutton
Switch PRSL1000PI	Switch PRSL1001PI	Switch PRSL1000PI	Switch PRSL1001PI	Switch PRSL1002PI	Switch PRSL1002PI	Switch PRSL1003PI	Switch PRSL1003PI
Pushbutton							
Switch PRSL1002PI	Switch PRSL1002PI	Switch PRSL1003PI	Switch PRSL1003PI	Switch PRSL1002PI	Switch PRSL1002PI	Switch PRSL1002PI	Switch PRSL1002PI

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PF38040012

Cable sleeve	
Pushbutton  2 switches PRSL1000PI	Mushroom pushbutton Switch PRSL1001PI
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI

PF38040016

Cable sleeve	
Pushbutton  2 switches PRSL1000PI	Mushroom pushbutton Switch PRSL1001PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI

PF38050003

Cable sleeve	
Mushroom pushbutton Switch PRSL1001PI	
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI

PF38050004

Cable sleeve	
Mushroom pushbutton Switch PRSL1001PI	
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI

PF38050005

Cable sleeve	
Mushroom pushbutton Switch PRSL1001PI	
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI

6 ACTUATORS**PF38060001**

Cable sleeve	
Pushbutton  2 switches PRSL1000PI	Mushroom pushbutton Switch PRSL1001PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI
Blanking plug	Blanking plug

PF38060002

Cable sleeve	
Pushbutton  2 switches PRSL1000PI	Mushroom pushbutton Switch PRSL1001PI
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI
Blanking plug	Blanking plug

8 ACTUATORS**PF38080001**

Cable sleeve	
Pushbutton  2 switches PRSL1000PI	Mushroom pushbutton Switch PRSL1001PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI

PF38080006

Cable sleeve	
Pushbutton  2 switches PRSL1000PI	Mushroom pushbutton Switch PRSL1001PI
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI

PF38080007

Cable sleeve	
Pushbutton  2 switches PRSL1000PI	Mushroom pushbutton Switch PRSL1001PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI

PF38080008

Cable sleeve	
Pushbutton  2 switches PRSL1000PI	Mushroom pushbutton Switch PRSL1001PI
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI
Pushbutton  Switch PRSL1003PI	Pushbutton  Switch PRSL1003PI
Pushbutton  Switch PRSL1002PI	Pushbutton  Switch PRSL1002PI

PF38100001

Cable sleeve	
Pushbutton  ^{GREEN}	Mushroom pushbutton
2 switches PRSL1000PI	Switch PRSL1001PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Blanking plug	Blanking plug

PF38100002

Pushbutton  ^{YELLOW}	Pushbutton 
Switch PRSL1000PI	Switch PRSL1000PI
Pushbutton  ^{GREEN}	Mushroom pushbutton
Switch PRSL1000PI	Switch PRSL1001PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Blanking plug	Blanking plug
Cable sleeve	

PF38120001

Cable sleeve	
Pushbutton  ^{GREEN}	Mushroom pushbutton
2 switches PRSL1000PI	Switch PRSL1001PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI

PF38120002

Pushbutton  ^{YELLOW}	Pushbutton 
Switch PRSL1000PI	Switch PRSL1000PI
Pushbutton  ^{GREEN}	Mushroom pushbutton
Switch PRSL1000PI	Switch PRSL1001PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Pushbutton 	Pushbutton 
Switch PRSL1002PI	Switch PRSL1002PI
Cable sleeve	

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REQUEST FORM FOR ALPHA NON STANDARD PENDANT STATIONS

Control elements

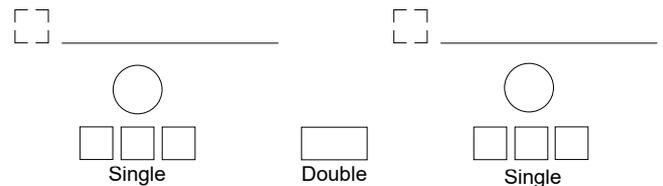
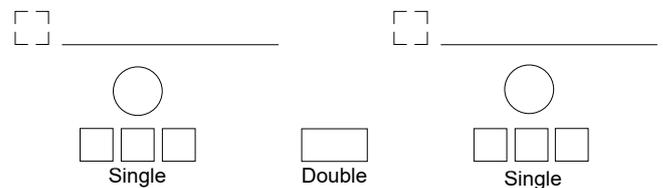
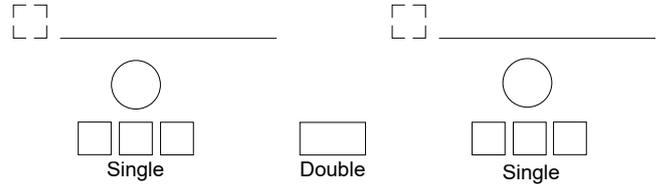
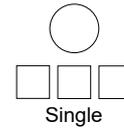
- ① PRTS000001 Single pushbutton
- ② PRTD000001 Double pushbutton
- ③ PRSL1023PI Blanking plug
- ④ PRSL1009PI Emergency stop mushroom pushbutton
- ⑤ PRSL1012PI Red pilot light
- ⑥ PRSL1013PI Yellow pilot light
- ⑦ PRSL1014PI Green pilot light
- ⑧ PRSL1015PI Spring return selector switch 0/1
- ⑨ PRSL1016PI Maintained positions selector switch 0/1
- ⑩ PRSL1026PI Spring return selector switch 1/0/2
- ⑪ PRSL1027PI Maintained positions selector switch 1/0/2
- ⑫ PRSL1017PI Spring return key selector switch 0/1
- ⑬ PRSL1024PI Maintained positions key selector switch 0/1

Label symbols

20		27		34	
GREEN					
21		28		35	
GREEN					
22		29		36	
YELLOW					
23		30		37	
RED					
24		31		38	
NERO					
25		32			
26		33			

Hook

Cable sleeve



Single switches

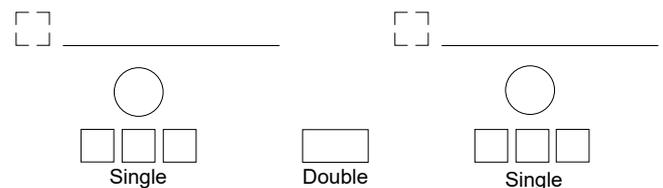
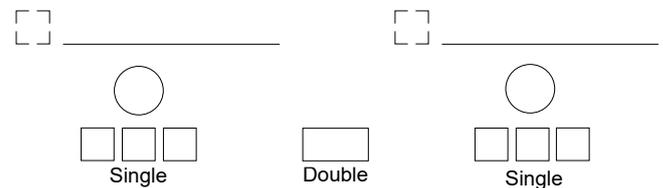
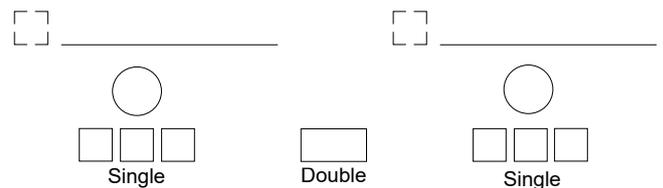
- A PRSL1000PI 1 NO
- B PRSL1001PI 1 NC
- C PRSL1004PI Lamp holder

Double switches

- D PRSL1002PI 1 speed
- E PRSL1003PI 2 speed

Instruction

- Fill in the pendant station scheme for the number of control elements required.
- Write the number corresponding to the control element required in the circle.
- Enter in the round box the number corresponding to the control element required.
- Enter in the dashed box the number corresponding to the symbol required on the label. Next to the number, mark the direction of the arrow and the customized lettering, if required.
- Enter in the box the letter corresponding to the single or double switches required.
- Mark the appropriate box to show where the cable sleeve and the hook must be assembled (top or bottom).



Remarks

Hook

Cable sleeve

