SPA PENDANT CONTROL STATION



The SPA Pendant 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, SPA is aimed specifically for the industrial market.

It is available with 2 to 20 buttons arranged on a double row to allow for pairing of opposite functions and reducing overall dimensions.

The thermoplastic rectangular buttons comprise of a moulded two-colour arrangement offering a combination of clear reading of symbols and text with maximum wear resistance.

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

One or two speed switches are available. The emergency stop mushroom pushbutton complies with the EN 418 standard and it is equipped with positive opening nc switches.

TECHNICAL SPECIFICATIONS

Conformity to Community Directives	2006/95/CE			
Conformity to Standards	EN 60204-1 EN 60947-1 EN60947-5-1			
	EN 60529 EN 418			
Ambient temperature	Storage -40°C/+70°C			
	Operational -25°C/+70°C			
Protection degree	IP 65			
Insulation category	Class II			
Cable entry	Rubber cable sleeve Ø 14÷26 mm			
Operating positions	Any position			
Markings	CE			

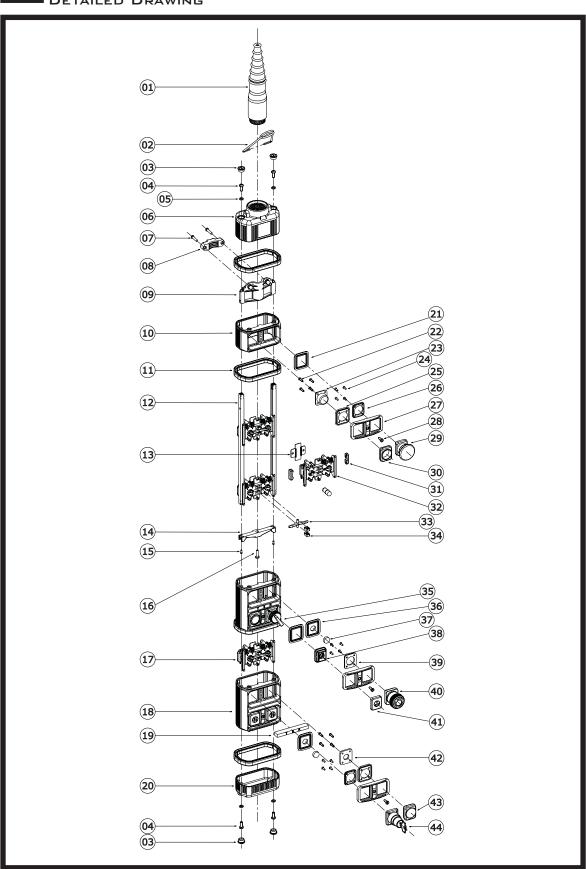
TECHNICAL SPECIFICATIONS OF THE SWITCHES

<i>l</i> ∼
operations
ding to EN 50013
y-type terminals



SPA PENDANT CONTROL STATION

DETAILED DRAWING







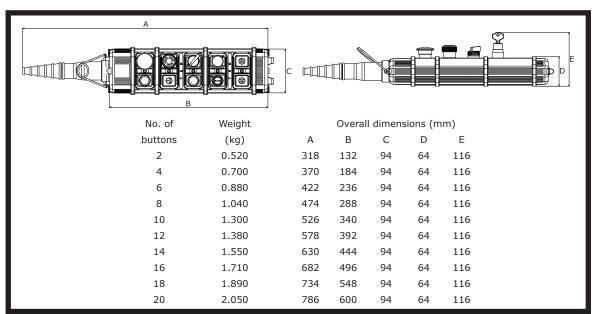
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OVERALL DIMENSIONS



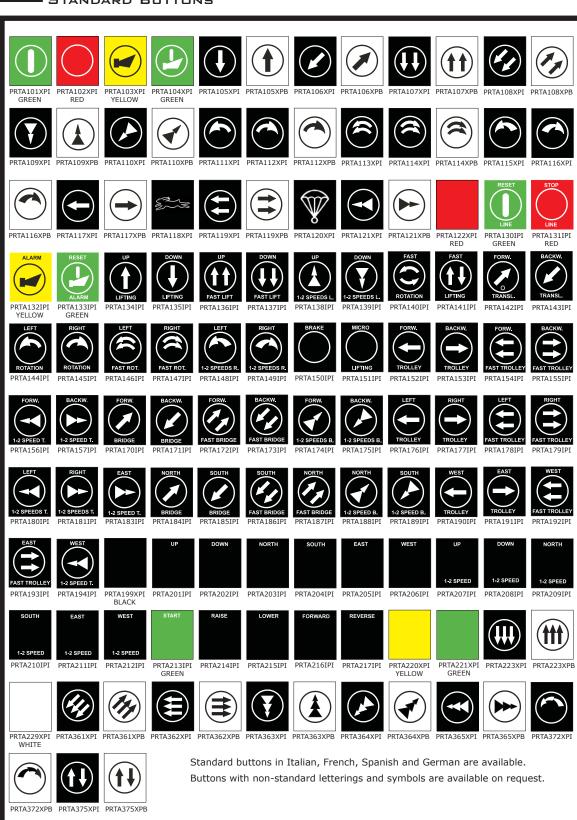
SPARE PARTS

REFERENCE	DRAWING	CODE	DESCRIPTION					
D 1		PRSL0145PE PRSL0146PE	Cable sleeve Silicone cable sleeve					
02		PRGA0012PE	Hook					
1 7		PRSL0074XX PRSL0075XX PRSL0076XX PRSL0077XX	1no+1nc / 1no+1nc switch 2no+1nc / 2no+1nc switch 1no+1nc / 2no+2nc switch 2no+2nc / 2no+2nc switch					
23	9 00	PRSL3534PI PRSL3535PI PRSL3542PI	Red pilot light Green pilot light Yellow pilot light					
29		PRSL3531PI	Impulse mushroom pushbutton					
32		PRSL0073XX	1no+1nc switch / lamp holder					
35	\$ \$ \$ \$ * ! !	PRSL3540PI PRSL3543PI	2 position selector switch 3 position selector switch					
4 - +24+36+37+39	9	PRSL3500PI	Emergency stop mushroom pushbutton					
41		PRTAxxxxx See standard buttons	Button					
43		PRSL5557PI	Blanking plug					
44 +24+26+36+37	1-1 20 3 3 3 3 3 3 3 3 3 3	PRSL3539PI	2 position key selector switch					



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STANDARD BUTTONS







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REQUEST FORM FOR NON STANDARD PENDANT STATIONS

CONTROL ELEMEN	TS	I 	Hook		
[1]PRSL3500PI	Emergency stop mushroom pushbutton	Cable	Hook Cable sleeve		
[2]PRSL3531PI	Impulse mushroom pushbutton		ica 		
[3]PRSL3539PI	2 position key selector switch		Switch Mechanical interlock		
[4]PRSL3540PI	2 position selector switch				
[5]PRSL3543PI	3 position selector switch	PRTA	—— み な	PRTA	
[6]PRSL3534PI	Red pilot light		Switch Mechanical Interlock		
[7]PRSL3535PI	Green pilot light	PRTA		PRTA	
[8]PRSL3542PI	Yellow pilot light		Switch Mechanical Interlock		
[9]PRSL5557PI	Blanking plug		Switch Mechar interloc		
SWITCHES		PRTA		PRTA	
PRSL0073XX 1no+1nc/lamp ho	older		Switch Mechanical Interlock		
PRSL0074XX 1no+1nc/1no+1r	nc		S Æ i=		
PRSL0075XX 2no+1nc/2no+1r	nc	PRTA		PRTA	
PRSL0076XX 1no+1nc/2no+2r	nc		Switch Mechanical Interlock		
5 PRSL0077XX 2no+2nc/2no+2r	nc		6, 2.5		
Instructions		PRTA		PRTA	
 Fill in the pendant station scheme for the number of control elements required (2, 4, 6, 8, 10, 12, 14, 16, 			Switch Mechanical Interlock		
18 or 20 buttons - Write the numb). Per corresponding to the control				
	d (broken line box). When buttons in the PRTA code and, when	PRTA		PRTA	
necessary, mark the direction of the arrow into the corresponding box.		i	Switch Mechanical interlock		
 Write the number corresponding to the switches required. When PRSL0076XX is required, mark the 		PRTA		PRTA	
- Mark the box c	no+2nc contacts (left or right). orresponding to the mechanical	PRIA		PRIA	
interlock whenMark the approp	required. riate box to show where the cable		Switch Mechanical interlock		
sleeve and the bottom).	hook must be assembled (top or	PRTA		PRTA	
REMARKS			Switch Mechanical Interlock		
			Switch		
		PRTA		PRTA	
			Switch Mechanical Interlock		
			Switch		
		PRTA		PRTA	
		 	Hook		
		Cable sleeve			
		I			



SPA PENDANT CONTROL STATION

USE AND MAINTENANCE INSTRUCTIONS

The SPA Pendant Control Station is an electromechanical device for low voltage control circuits (EN 60947-1, EN 60947-5-1) to be used as electrical equipment on machines (EN 60204-1) in compliance with the fundamental requirements of the Low Voltage Directive 2006/95/CE and of the Machine Directive 98/37/CE.

The pendant station is designed for industrial use and also for use under particularly severe climatic conditions (operational temperature from -25° C to $+70^{\circ}$ C, suitable for use in tropical environment). The equipment is not suitable for use in environments with potentially explosive atmosphere, corrosive agents or a high percentage of sodium chloride (saline fog). Oils, acids or solvents may damage the equipment.

The switches (17, 32) are designed for auxiliary control of contactors or electromagnetic loads (utilisation category AC-15 according to EN 60947-5-1). Do not connect more than one phase to each switch (17, 32). Do not oil or grease the control elements (29, 35, 40, 41, 44) or the switches (17, 32).

The installation of the pendant station shall be carried out by an expert and trained personnel. Wiring shall be properly done according to the current instructions.

Prior to the installation and the maintenance of the pendant station, the main power of the machinery shall be turned

Steps for the proper installation of the pendant station

- remove the plastic plugs (03) from the lower cover (20) remove the screws (04) from the lower cover (20) remove the lower cover (20), the rubber frames (11) and the sections (10, 18) from the inner part of the pendant station; make sure to follow the same sequence when reassembling the sections (10, 18)
- remove the plastic plugs (03) from the upper cover (06) remove the screws (04) from the upper cover (06) and the latter from the inner part of the pendant station screw the variable section rubber cable sleeve (01) on the upper cover (06)
- cut the variable section rubber cable sleeve (01) and insert the cable tight enough to guarantee protection against water and/or dust
- strip the cable to a length suitable for wiring the switches (17, 32)

- tape the stripped part of the cable fix the cable inside the pendant station using the cable clamp (07, 08) connect all the switches (17, 32) (tighten the wires into the terminals with a torque equal to 0.8 Nm; insertability of wires into the switch terminals equal to 2x1.5mm² 1x2.5 mm²); for the correct positioning of the wires into the pendant station, remove the wire covers (13) from the switches (17, 32), place the wires into the seats and fix the wire covers again (13)
- mount the upper cover (06) on the inner part of the pendant station and fasten the screws (04); when placing the upper cover (06), make sure that the writing "TER" and the label identifying the product are on the same side of the actuators (29, 35, 40, 41, 44) screw the plastic plugs (03) on the upper cover (06) fix the cable to the cable sleeve (01) using a cable tie (not supplied) assemble the rubber frames (11) and the sections (10, 18) alternatively, making sure to follow the right sections

- mount the lower cover (20) on the inner part of the pendant station and tighten the screws (04) screw the plastic plugs (03) on the lower cover (20)
- assemble the hook (02)

Additional steps for replacing the switches

- open the pendant station as explained in the installation steps
 remove possible wires from the switch (17, 32) needing replacement
 loosen the screw (16) on the bottom of the inner part of the pendant station
 remove the two plastic guides (31) from the switch (17, 32) and remove the latter from the pendant station
 remove the two plastic guides (31) from the new switch (17, 32)
 place the switch (17, 32) on the inner part of the pendant station
 place back the two plastic guides (31) checking that they are on the right side (the slightly raised part of the guides
 must be in touch with the metal rods (12) of the pendant station)
- must be in touch with the metal rods (12) of the pendant station) tighten the screw (16) on the bottom of the inner part of the pendant station in order to fix the switches (17,
- wire back the switch and close the pendant station as explained in the installation steps

Additional steps for mounting/replacing control/signalling bulbs into the lamp holders remove the central screw (28) from the frame (27) assembled on the pilot light (23, 30) remove the frame (27)

- put the bayonet-type bulb into its seat (use BA9s 125V-2,6 W(max) bulbs)
- place the frame back (27) and tighten the screw (28)

Periodic maintenance steps

- check the proper tightening of the screws (04, 28) check the proper tightening of the switch (17, 32) terminal screws
- check all wiring (in particular where wires clamp into the switches)
- check the conditions of the rubber frames (11), of the rubber of the actuators (21, 25, 36) and of the cable sleeve
- check that the plastic enclosure (06, 10, 18, 20) of the pendant station is not broken

In case any component of the pendant station is modified, the validity of the markings and the guarantee on the equipment are annulled. Should any component need replacement, use original spare parts only.

TER declines all responsibility for damages caused by the improper use or installation of the equipment.





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