

The NPA 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, NPA is aimed specifically for the industrial market.

Both thermoplastic rectangular buttons and round disks are available, the latter mounted on rubber pushbuttons to guarantee protection against dust which may cause the pushbuttons to stick when the equipment is used under particular environmental conditions. Buttons and discs 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.

By turning the cable sleeve on the central part axis, the pendant station is kept at an angle of inclination of 20° which allows the best view of all control elements, allowing the operator to work in a natural and non-tiring position.

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



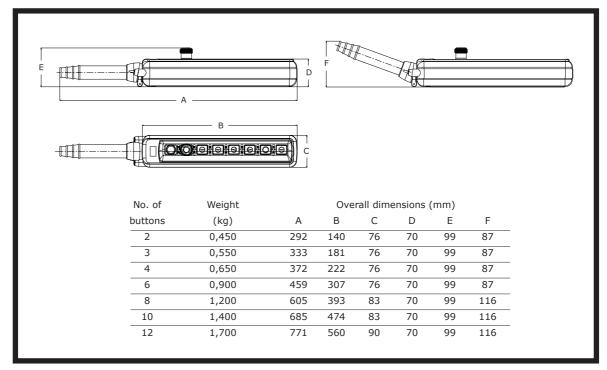
TECHNICAL SPECIFICATIONS

Conformity to Community Directives	73/23/CEE 93/68/CEE			
Conformity to Standards	EN 60204-1 EN 60947-1 EN60947-5-1			
	EN 60529 EN 418 EN 50013 IEC 536			
Ambient temperature	Storage -40°C/+70°C			
	Operational -25°C/+70°C			
Protection degree	IP 65			
Insulation category	Class II			
Cable entry	2÷6 buttons: rubber cable sleeve Ø 10÷18 mm			
	8÷12 buttons: rubber cable sleeve Ø 17÷26 mm			
Operating positions	Any position			
Homologations	CE (UL - (c)UL control stations available on request)			

TECHNICAL SPECIFICATIONS

Utilisation category	AC 15
	AC 13
Rated operational current	1.9 A
Rated operational voltage	380 V
Rated thermal current	10 A
Rated insulation voltage	500 V~
Mechanical life	1x10° operations
Terminal referencing	According to EN 50013
Connections	Screw-type terminals
Homologations	CE - UL - (c)UL

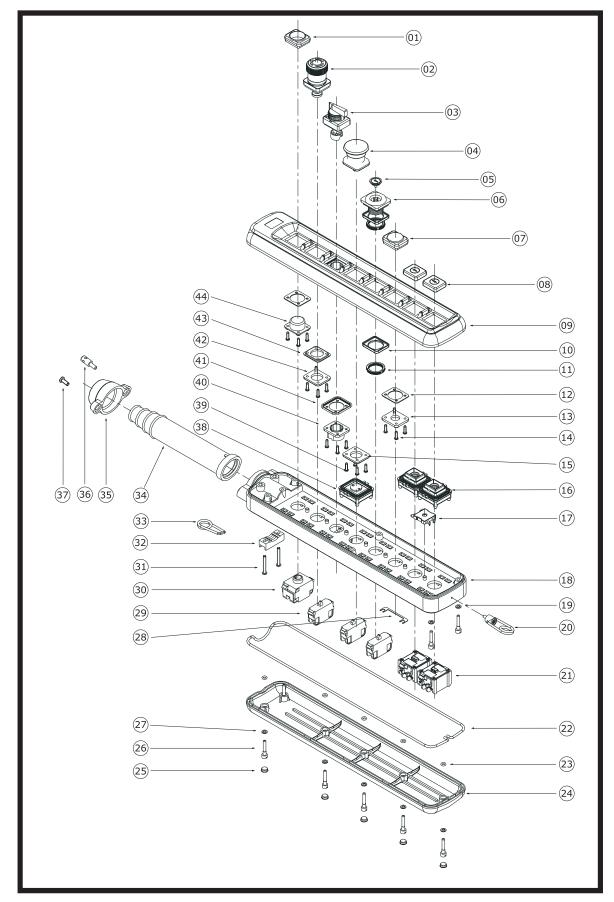
OVERALL DIMENSIONS



NPA PENDANT

NPA PENDANT CONTROL STATION

■ DETAILED DRAWING





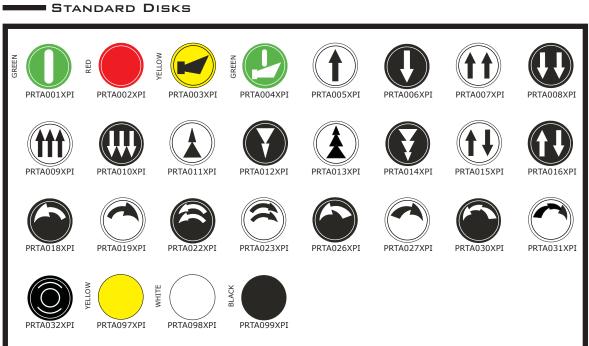
SPARE PARTS

REFERENCE	DRAWING	Code	DESCRIPTION	
		PRSL0515PI	Red pilot light	
		PRSL0516PI	Green pilot light	
+12+14+44		PRSL0521PI	Yellow pilot light	
D2		PRSL0500PI	Emergency stop mushroom pushbutton	
+14+40+41		PRSL0513PI	3 position key selector switch	
		PRSL0514PI	3 position selector switch	
د د د د د د د د		PRSL0514FI PRSL0519PI	Spring return 3 position selector switch	
+14+40+41			, 5 , ,	
14		PRSL0512PI	Impulse mushroom pushbutton	
04 +15+39		PRSL0520PI	Key mushroom pushbutton	
0 5		PRTAxxxxx See standard disks	Disk for dust-tight pushbutton	
D6		PRSL0550PI	Dust-tight pushbutton	
07		PRSL0517PI	Blanking plug	
08		PRTAxxxxxx See standard buttons	Button	
16		PRSL0518PI	Button housing	
17		PRSL7816PI	Mechanical interlock	
20		PRGA0051PE	Lower hook	
-		PRSL0504PI	1 speed switch - 1no+1nc+1no simultaneous	
		PRSL0505PI	2 speed switch - 1no+1nc+1no sequenced	
21		PRSL0506PI	1 speed switch - 3no simultaneous	
	The second second	PRSL0507PI	3 speed switch - 3no sequenced	



SPARE PARTS

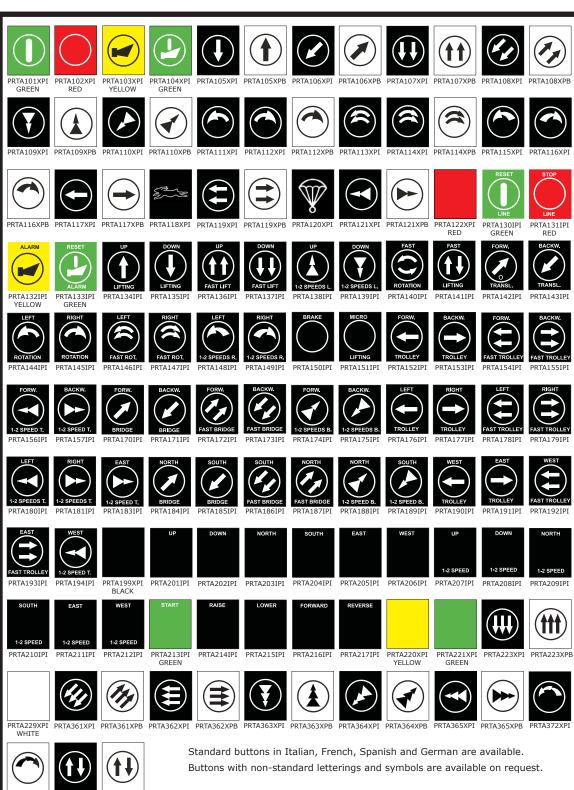
REFERENCE	DRAWING	Code	DESCRIPTION	
28		PRTR6120PE PRTR6121PE PRTR6122PE PRTR6123PE PRTR6124PE	22 mm connecting bridge 28 mm connecting bridge 25 mm connecting bridge 31 mm connecting bridge 47 mm connecting bridge	
29		PRSL0502PI PRSL0503PI	1nc switch 1no switch	
30		PRSL0501PI	Lamp holder	
33		PRGA0001PE	Upper hook	
34		PRGO0100PE PRGO0105PE	Cable sleeve for 2÷6 button units Cable sleeve for 8÷12 button units	
36		PRTO6626PE	Wire fixing	
38		PRSL0522PI	Actuating base for PRSL0512PI and PRSL0520PI	





NPA Pendant Control Station

STANDARD BUTTONS





PRTA372XPB PRTA375XPI PRTA375XPB

NPA PENDANT CONTROL STATION REQUEST FORM FOR NON STANDARD PENDANT STATIONS

CONTROL ELEME	:NTS	 Switches	 	Hook	
	15 (1) [22] (A)	PRSL0501PI	Lamp holder	Cable sleeve Switches	Control elements
[2] [9]		PRSL0502PI	1 nc switch		□ □ □ □ PRTA PI
		PRSL0503PI	1no switch		/ FRIAFI
	[18] (25] (6)	PRSL0504PI	1 speed 1no+1nc+1nosimultaneous		
[5] [12] [7]	[19] [26]	5 PRSL0505PI	2 speed 1no+1nc+1no sequenced		PRTAPI
[6] [13]	20 27	6 PRSL0506PI	1 speed 3no simultaneous		
[7] (14) (14)	21 28	PRSL0507PI	1 speed 3no sequenced		
[29] PRSL0500PI	Emergency stop mushroom pushbutton	BUTTONS	į		
[30] PRSL0512PI	Impulse mushroom pushbutton	Rectangular bu	uttons		
[31] PRSL0513PI	3 position key selector switch	Disks (dust-tig	ht)		PRTAPI
32 PRSL0514PI	3 position selector switch				\
[33] PRSL0515PI	Red pilot light	 			PRTAPI
[34] PRSL0516PI	Green pilot light				
[35] PRSL0517PI	Blanking plug	 			
[36] PRSL0519PI	Spring return 3 pos. selector switch		İ		PRTAPI
[37] PRSL0520PI	Key mushroom pushbutton	 			\
[38] PRSL0521PI	Yellow pilot light		į		PRTAPI
Instructions		I			
- Fill in the penc		or the number of co	ntrol elements required		
(2, 3, 4, 6, 8, 10, or 12 buttons). - Write the number corresponding to the control element required (broken line				PRTAPI	
arrow into the	corresponding circle.	In case buttons diffe	ark the direction of the erent from those listed		
- Write the numl		ne switches require	d, keeping in mind that		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
element, but o	only one of the other s	witches.	nd 3 under each control		/ FRIAFI
disks).			equired (rectangular or 		\
interlock is re	equired.	•	when the mechanical		PRTAPI
	opriate box to show wl (top or bottom).	here the cable slee	ve and the hook must		
REMARKS			į		
					PRTAPI
					\
					PRTAPI
			 	Hook	
			 	Cable sleeve	



NPA Pendant Control Station

■ USE AND MAINTENANCE INSTRUCTIONS

The NPA 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 73/23/CEE and of the Machine Directive 89/392/CEE.

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 (20, 28) 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 (20, 28). Do not oil or grease the control elements (02, 03, 04, 06, 08, 15) or the switches (20, 28).

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 off.

Steps for the proper installation of the pendant station

- remove the screws (25) on the lower cover (23) to open the pendant station
- cut the variable section rubber cable sleeve (33) and insert the cable tight enough to guarantee protection against water and/or dust
- fix the cable to the cable sleeve (33) using a cable tie (not supplied).
- strip the cable to a length suitable for wiring the switches (20, 28)
- tape the stripped part of the cable
- fix the cable inside the pendant station using the cable clamp (31)
- connect all the switches (20, 28) according to the contact scheme printed on the switches (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)
- close the pendant station checking the proper positioning of the rubber (21) in the cover (23) and of the "O" rings (22)
- put the rubber caps for the screws (24) into the holes in the lower cover (23)

Additional steps for mounting/replacing control/signalling bulbs into the lamp holders

- push the two clips on the sides of the lamp holder (29) to remove it from the central part (17) of the pendant station
- put the bayonet-type bulb into its seat (use BA9s 125V-2.6 W(max) bulbs)
- assemble the lamp holder (29) on the central part (17) of the pendant station checking that the two clips are properly coupled

Periodic maintenance steps

- check the proper tightening of the screws (25) of the enclosure (09, 17, 23)
- check the proper tightening of the switch (20, 28) terminal screws
- check all wiring (in particular where wires clamp into the switches)
- check the conditions of the rubber (21) fit into the lower cover (23), of the rubber of the control elements (06) and of the cable sleeve (33)
- check that the plastic enclosure (09, 17, 23) 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.

