



NPA PENDANT CONTROL STATION



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— 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.

NPA PENDANT CONTROL STATION

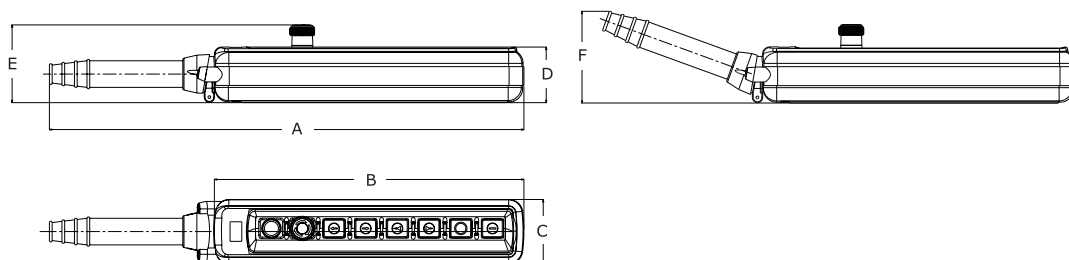
TECHNICAL SPECIFICATIONS

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
Rated operational current	1.9 A
Rated operational voltage	380 V
Rated thermal current	10 A
Rated insulation voltage	500 V~
Mechanical life	1x10 ⁶ operations
Terminal referencing	According to EN 50013
Connections	Screw-type terminals
Homologations	CE - UL - (c)UL

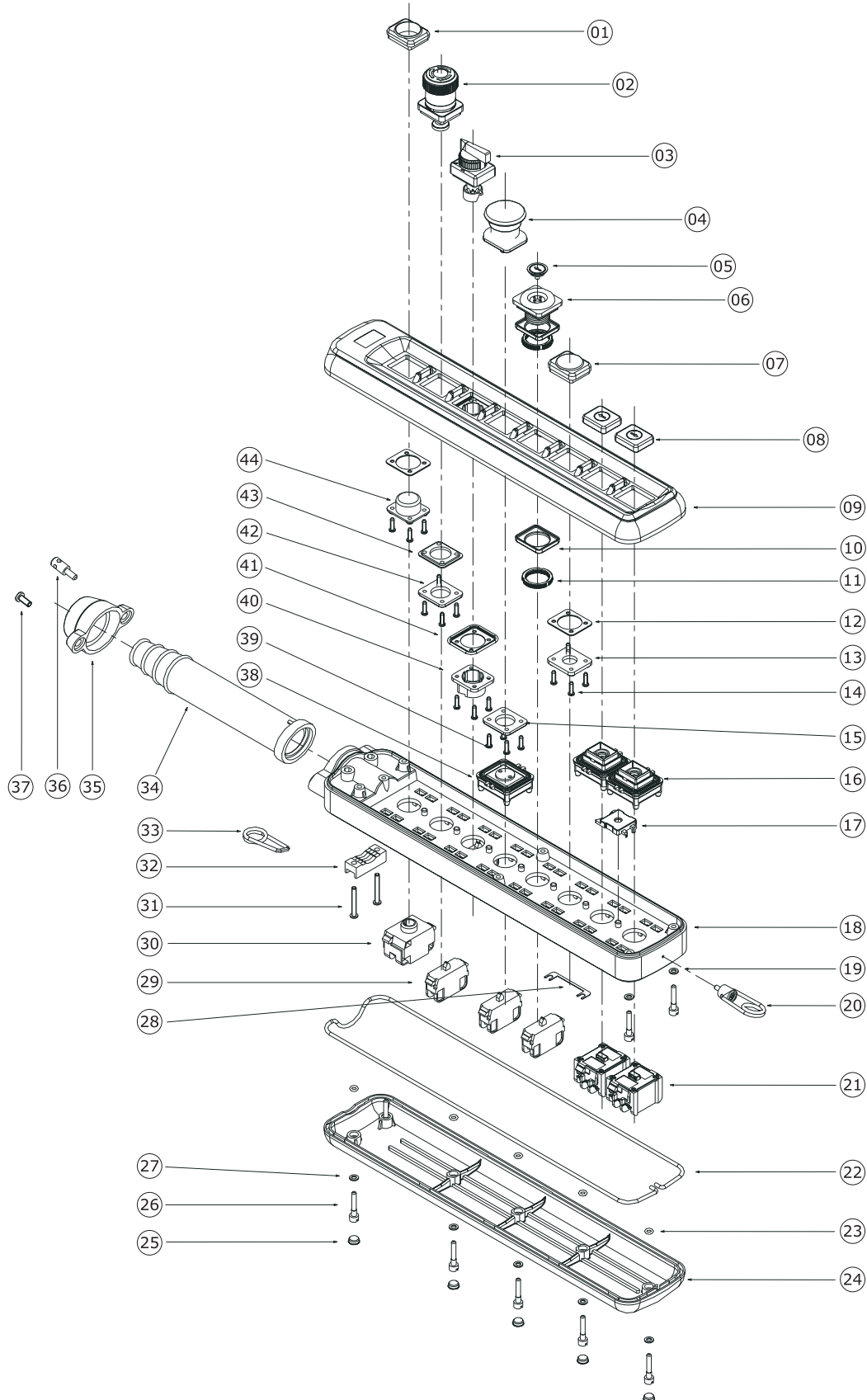
OVERALL DIMENSIONS



No. of buttons	Weight (kg)	Overall dimensions (mm)					
		A	B	C	D	E	F
2	0,450	292	140	76	70	99	87
3	0,550	333	181	76	70	99	87
4	0,650	372	222	76	70	99	87
6	0,900	459	307	76	70	99	87
8	1,200	605	393	83	70	99	116
10	1,400	685	474	83	70	99	116
12	1,700	771	560	90	70	99	116

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DETAILED DRAWING

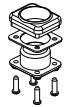
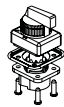
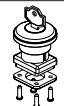


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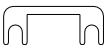
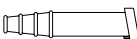
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SPARE PARTS

REFERENCE	DRAWING	CODE	DESCRIPTION
01 + 12+14+44		PRSL0515PI PRSL0516PI PRSL0521PI	Red pilot light Green pilot light Yellow pilot light
02 + 14+42+43		PRSL0500PI	Emergency stop mushroom pushbutton
03 + 14+40+41		PRSL0513PI	3 position key selector switch
03 + 14+40+41		PRSL0514PI PRSL0519PI	3 position selector switch Spring return 3 position selector switch
04 + 15+39		PRSL0512PI	Impulse mushroom pushbutton
04 + 15+39		PRSL0520PI	Key mushroom pushbutton
05		PRTAxxxxxx See standard disks	Disk for dust-tight pushbutton
06 + 10+11		PRSL0550PI	Dust-tight pushbutton
07 + 12+13+14		PRSL0517PI	Blanking plug
08		PRTAxxxxxx See standard buttons	Button
16		PRSL0518PI	Button housing
17		PRSL7816PI	Mechanical interlock
20		PRGA0051PE	Lower hook
21		PRSL0504PI PRSL0505PI PRSL0506PI PRSL0507PI	1 speed switch - 1no+1nc+1no simultaneous 2 speed switch - 1no+1nc+1no sequenced 1 speed switch - 3no simultaneous 3 speed switch - 3no sequenced

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SPARE PARTS

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

STANDARD DISKS

GREEN		RED		YELLOW		GREEN					
	PRTA001XPI		PRTA002XPI		PRTA003XPI		PRTA004XPI	PRTA005XPI	PRTA006XPI	PRTA007XPI	PRTA008XPI
											
	PRTA009XPI	PRTA010XPI	PRTA011XPI	PRTA012XPI	PRTA013XPI	PRTA014XPI	PRTA015XPI	PRTA016XPI			
											
	PRTA018XPI	PRTA019XPI	PRTA022XPI	PRTA023XPI	PRTA026XPI	PRTA027XPI	PRTA030XPI	PRTA031XPI			
		YELLOW		WHITE		BLACK					
	PRTA032XPI		PRTA097XPI		PRTA098XPI		PRTA099XPI				

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STANDARD BUTTONS

PRTA101XPI GREEN	PRTA102XPI RED	PRTA103XPI YELLOW	PRTA104XPI GREEN	PRTA105XPI	PRTA105XPB	PRTA106XPI	PRTA106XPB	PRTA107XPI	PRTA107XPB	PRTA108XPI	PRTA108XPB
PRTA109XPI	PRTA109XPB	PRTA110XPI	PRTA110XPB	PRTA111XPI	PRTA112XPI	PRTA112XPB	PRTA113XPI	PRTA114XPI	PRTA114XPB	PRTA115XPI	PRTA116XPI
PRTA116XPB	PRTA117XPI	PRTA117XPB	PRTA118XPI	PRTA119XPI	PRTA119XPB	PRTA120XPI	PRTA121XPI	PRTA121XPB	PRTA122XPI RED	PRTA130IPI GREEN	PRTA131IPI RED
PRTA132IPI YELLOW	PRTA133IPI GREEN	PRTA134IPI	PRTA135IPI	PRTA136IPI	PRTA137IPI	PRTA138IPI	PRTA139IPI	PRTA140IPI	PRTA141IPI	PRTA142IPI	PRTA143IPI
PRTA144IPI	PRTA145IPI	PRTA146IPI	PRTA147IPI	PRTA148IPI	PRTA149IPI	PRTA150IPI	PRTA151IPI	PRTA152IPI	PRTA153IPI	PRTA154IPI	PRTA155IPI
PRTA156IPI	PRTA157IPI	PRTA170IPI	PRTA171IPI	PRTA172IPI	PRTA173IPI	PRTA174IPI	PRTA175IPI	PRTA176IPI	PRTA177IPI	PRTA178IPI	PRTA179IPI
PRTA180IPI	PRTA181IPI	PRTA183IPI	PRTA184IPI	PRTA185IPI	PRTA186IPI	PRTA187IPI	PRTA188IPI	PRTA189IPI	PRTA190IPI	PRTA191IPI	PRTA192IPI
PRTA193IPI	PRTA194IPI	PRTA199XPI BLACK	PRTA201IPI	PRTA202IPI	PRTA203IPI	PRTA204IPI	PRTA205IPI	PRTA206IPI	PRTA207IPI	PRTA208IPI	PRTA209IPI
PRTA210IPI	PRTA211IPI	PRTA212IPI	PRTA213IPI GREEN	PRTA214IPI	PRTA215IPI	PRTA216IPI	PRTA217IPI	PRTA220XPI YELLOW	PRTA221XPI GREEN	PRTA223XPI	PRTA223XPB
PRTA229XPI WHITE	PRTA361XPI	PRTA361XPB	PRTA362XPI	PRTA362XPB	PRTA363XPI	PRTA363XPB	PRTA364XPI	PRTA364XPB	PRTA365XPI	PRTA365XPB	PRTA372XPI
PRTA372XPB	PRTA375XPI	PRTA375XPB	Standard buttons in Italian, French, Spanish and German are available. Buttons with non-standard letterings and symbols are available on request.								

REQUEST FORM FOR NON STANDARD PENDANT STATIONS

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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°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.