NPA-CP
Pendant control station

Pendant station for **direct control** of industrial machines. Sturdy and handy, NPA-CP is specifically designed for heavy duty in industrial environments.

FEATURES

- The cable sleeve can be angled up to 20° to give the operator the best view of all control elements and to enable a natural, comfortable working position.
- Rubber pushbuttons with symbol disks to ensure protection against dust and prevent jamming when the control station is used in harsh environments.
- Two-colour moulded pushbutton disks to guarantee clear reading and wear resistance.
- The emergency stop mushroom pushbutton complies with standard ISO 13850.
- Mechanical life of switches: 1 million operations.
- IP protection degree: NPA-CP is classified IP 65.
- Extreme temperature resistance: -25°C to +70°C.
- All materials and components used are wear resistant and guarantee protection of the unit against water and dust.

OPTIONS

- Available in configurations with 2 to 8 actuators.
- 1 or 2 speed two-pole switches or 1 speed three-pole switches, with or without brake contact, for direct control.
- Mechanical interlock to prevent simultaneous operation of opposite functions.

CERTIFICATIONS

- CE marking.

Fill in the "request form" for accurate product configuration.

CERTIFICATIONS

Conformity to Community Directives	2014/35/UE Low Voltage Directive
	2006/42/CE Machinery Directive
Conformity to CE Standards	EN 60204-1 Safety of machinery - Electrical equipment of machines
	EN 60947-1 Low-voltage switchgear and controlgear
	EN 60947-3 Low-voltage switchgear and controlgear - Switches, disconnectors, switch-disconnectors and fuse-combination units
	EN 60529 Degrees of protection provided by enclosures
	ISO 13850 Safety of machinery - Emergency stop - Principles for design
Markings and homologations	$C \in$

GENERAL TECHNICAL SPECIFICATIONS

|	
Ambient temperature	Storage -40°C/+70°C
	Operational -25°C/+70°C
IP protection degree	IP 65
Insulation category	Class II
Cable entry	2÷6 buttons: rubber cable sleeve (Ø 10÷18 mm)
	8 buttons: rubber cable sleeve (Ø 17÷26 mm)
Operating positions	Any position

TECHNICAL SPECIFICATIONS OF THE SWITCHES

Code	PRSL0458PI	PRSL0459PI	PRSL0460PI
Utilisation category	AC 3 - AC 4	AC 3 - AC 4	AC 3 - AC 4
Rated operational current	10 A		
Rated operational voltage	400 Vac		
Rated operational power	3 kW		
Rated thermal current	20 A		
Rated insulation voltage	660 Vac		
Brake operating contact / auxiliary contact	-	100 Vac, 0.7 A, L/R=100 ms	-
Mechanical life	$1x10^6$ operations		
Connections	Screw-type terminals with self-lifting pads		
Wires	1x2.5 mm², 2x1.5 mm²		
Tightening torque	0.8 Nm		
Switch type	1 speed, two-pole double switch	1 speed, two-pole double switch, with brake contact / auxiliary contact	2 speeds, two-pole double switch
Scheme			
Markings and homologations	$C \in$		

Code	PRSL0461PI	PRSL0471PI
Utilisation category	AC 3 - AC 4	AC 3 - AC 4
Rated operational current	10 A	
Rated operational voltage	400 Vac	
Rated operational power	3 kW	
Rated thermal current	20 A	
Rated insulation voltage	660 Vac	
Brake operating contact / auxiliary contact	100 Vac, 0.7 A, L/R=100 ms	-
Mechanical life	$1x10^6$ operations	
Connections	Screw-type terminals with self-lifting pads	
Wires	$1x2.5 \text{ mm}^2$, $2x1.5 \text{ mm}^2$	
Tightening torque	0.8 Nm	
Switch type	2 speeds, two-pole double switch, with brake contact / auxiliary contact	1 speed, three-pole double switch
Scheme		
Markings and homologations	CE	

Code	PRSL0472PI	PRSL0508PI
Utilisation category	AC 3 - AC 4	AC 23B
Rated operational current	10 A	
Rated operational voltage	400 Vac	
Rated operational power	3 kW	
Rated thermal current	20 A	
Rated insulation voltage	660 Vac	
Brake operating contact / auxiliary contact	100 Vac, 0.7 A, L/R=100 ms	-
Mechanical life	$1x10^6$ operations	
Connections	Screw-type terminals with self-lifting pads	
Wires	$1x2.5 \text{ mm}^2$, $2x1.5 \text{ mm}^2$	
Tightening torque	0.8 Nm	
Switch type	1 speed, three-pole double switch, with brake contact / auxiliary contact	1 speed, 3NC single switch
Scheme		
Markings and homologations	CE	

OVERALL DIMENSIONS (mm)
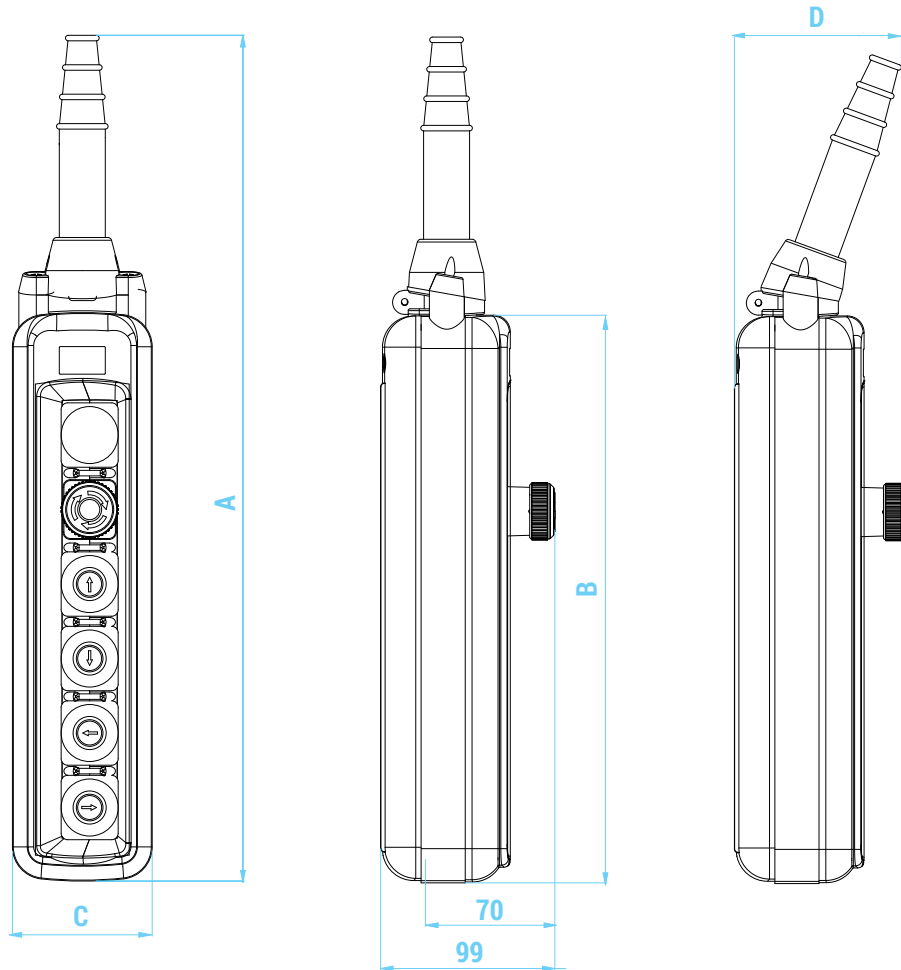
No. of actuators	Dimensions (mm)			
	A	B	C	D
2	292	140	76	87
3	333	181	76	87
4	372	222	76	87
6	459	307	76	87
8	605	393	83	116

STANDARD CONTROL STATIONS

Standard control stations are equipped with cable sleeve, hook and mechanical interlock between opposite function pushbuttons.

3 actuators

PF30030001

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
13 23 / 31 41 / 14 24 / 53 63 / 32 42 / 54 64	PRSL0471PI 1 speed three-pole	Pushbutton ↑
		Pushbutton ↓

PF30030003

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
13 23 / 31 31 / 14 24 / 53 63 / 32 34 / 41 41 / 54 64 / 42 44	PRSL0460PI 2 speeds two-pole	Pushbutton ▲
		Pushbutton ▼

PF30030004

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
13 23 / 14 24 / 53 63 / 54 64	PRSL0458PI 1 speed two-pole	Pushbutton ↑
		Pushbutton ↓

6 actuators

PF30060002

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
–	–	Blanking plug
13 23 31 31 / 14 24 32 34 / 53 63 41 41 / 54 64 42 44	PRSL0460PI 2 speeds two-pole	Pushbutton ▲
		Pushbutton ▼
13 23 31 31 / 14 24 32 34 / 53 63 41 41 / 54 64 42 44	PRSL0460PI 2 speeds two-pole	Pushbutton ▷
		Pushbutton ◁

PF30060004

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
–	–	Blanking plug
13 23 / 31 41 / 14 24 / 53 63 / 32 42 / 54 64	PRSL0471PI 1 speed three-pole	Pushbutton ↑
		Pushbutton ↓
13 23 / 31 41 / 14 24 / 53 63 / 32 42 / 54 64	PRSL0471PI 1 speed three-pole	Pushbutton →
		Pushbutton ←
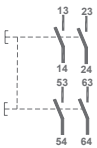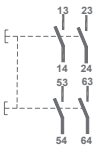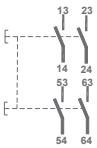
PF30060019

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
13 23 / 14 24 53 63 / 54 64	PRSL0458PI 1 speed two-pole	Pushbutton (up)
		Pushbutton (down)
13 23 / 14 24 53 63 / 54 64	PRSL0458PI 1 speed two-pole	Pushbutton (right)
		Pushbutton (left)

8 actuators

PF30080001

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
13 23 31 31 / 14 24 32 34 53 63 41 41 / 54 64 42 44	PRSL0460PI 2 speeds two-pole	Pushbutton
		Pushbutton
13 23 31 31 / 14 24 32 34 53 63 41 41 / 54 64 42 44	PRSL0460PI 2 speeds two-pole	Pushbutton
		Pushbutton
13 23 31 31 / 14 24 32 34 53 63 41 41 / 54 64 42 44	PRSL0460PI 2 speeds two-pole	Pushbutton
		Pushbutton

PF30080010

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
13 23 31 41 / 14 24 53 63 32 42 / 54 64	PRSL0471PI 1 speed three-pole	Pushbutton (up)
		Pushbutton (down)
13 23 31 41 / 14 24 53 63 32 42 / 54 64	PRSL0471PI 1 speed three-pole	Pushbutton (right)
		Pushbutton (left)
13 23 31 41 / 14 24 53 63 32 42 / 54 64	PRSL0471PI 1 speed three-pole	Pushbutton
		Pushbutton

PF30080022

Switch scheme	Switches	Actuators
11 21 31 / 12 22 32	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
13 23 / 14 24 / 53 63 / 54 64	PRSL0458PI 1 speed two-pole	Pushbutton ⬆
		Pushbutton ⬇
13 23 / 14 24 / 53 63 / 54 64	PRSL0458PI 1 speed two-pole	Pushbutton ➡
		Pushbutton ⬅
13 23 / 14 24 / 53 63 / 54 64	PRSL0458PI 1 speed two-pole	Pushbutton ↗
		Pushbutton ↙

ASSEMBLY DRAWING

A9

A13

A8

A10

A18

A17

A11

A12

A1

A2

A7

A3

A16

A4

A5

A6

A15

A14
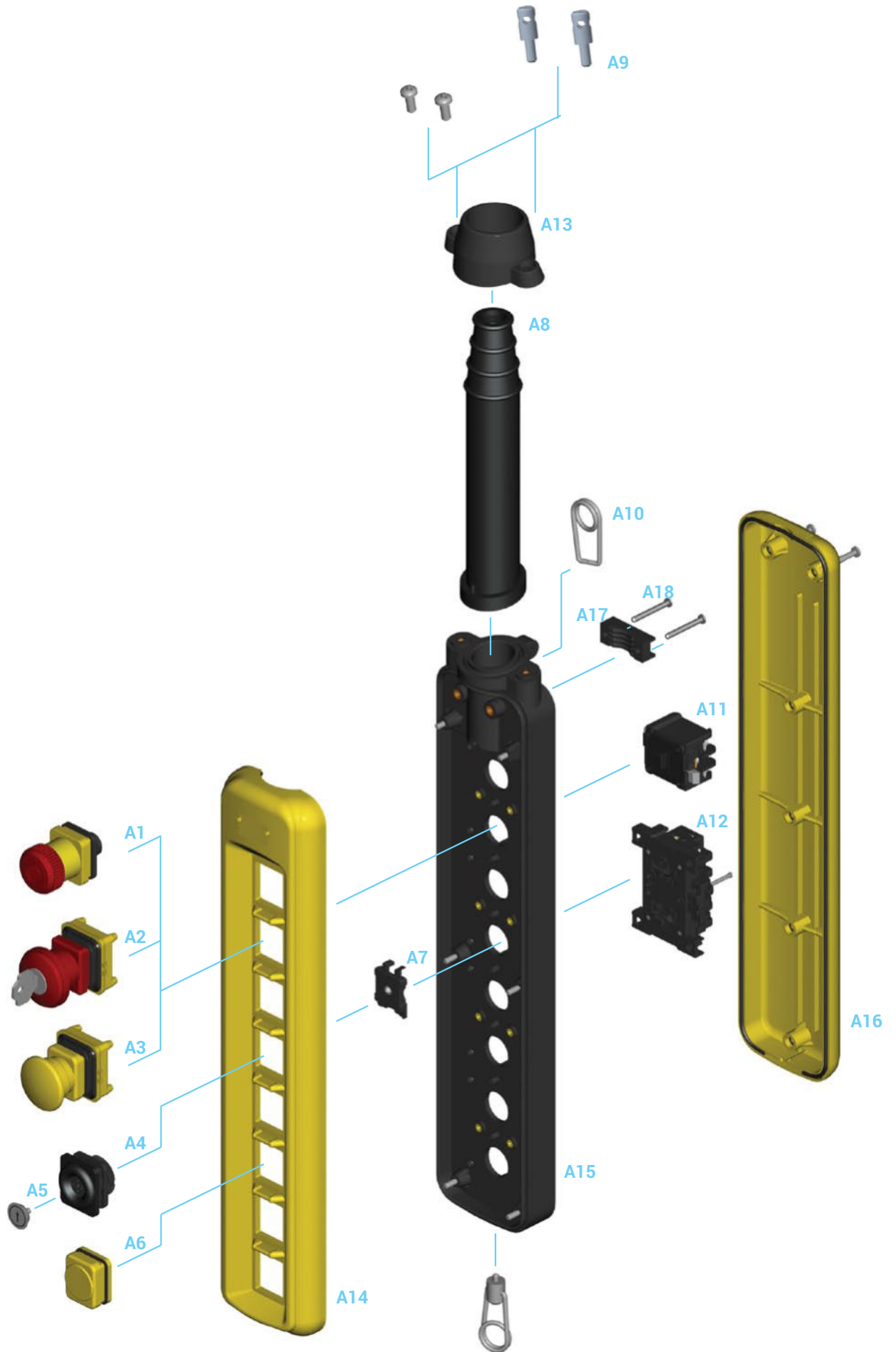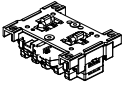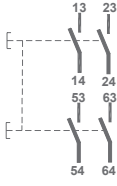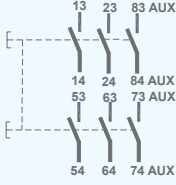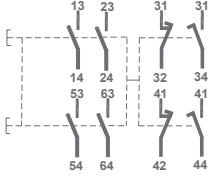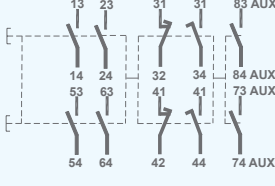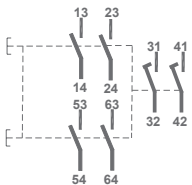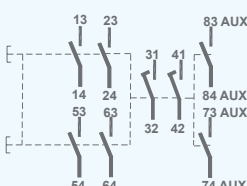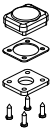
Refer to the following tables for descriptions of components: "Switches", "Actuators", "Mushroom pushbuttons" and "Accessories".

COMPONENTS
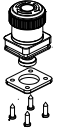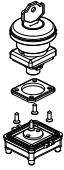
Switches

Ref.	Drawing	Description	Scheme	Code
A12		1 speed, two-pole double switch		PRSL0458PI
		1 speed, two-pole double switch with brake contact / auxiliary contact		PRSL0459PI
		2 speeds, two-pole double switch		PRSL0460PI
		2 speeds, two-pole double switch with brake contact / auxiliary contact		PRSL0461PI
		1 speed, three-pole double switch		PRSL0471PI
		1 speed, three-pole double switch with brake contact / auxiliary contact		PRSL0472PI
A11		1 speed, 3NC single switch, for mushroom pushbutton		PRSL0508PI
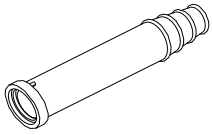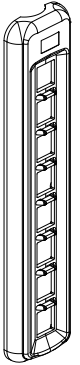
Actuators

Ref.	Drawing	Description	Code
A6		Blanking plug	PRSL0517PI
A5		Disk for dust-tight pushbutton	PRTA_ _ _ _ _ See disk table
A4		Dust-tight pushbutton	PRSL0550PI
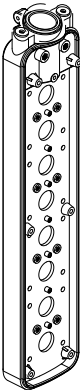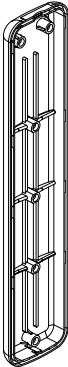
Mushroom pushbuttons

Ref.	Drawing	Description	Code
A1		Latched mushroom pushbutton for emergency stop	PRSL0600PI
A2		Key mushroom pushbutton (yellow)	PRSL0520PI
		Key mushroom pushbutton (red)	PRSL0520RO
A3		Impulse mushroom pushbutton	PRSL0512PI

Accessories

Ref.	Drawing	Description	Code
A7		Mechanical interlock	PRSL7817PI
A8		Cable sleeve - NPA-CP 2-6 buttons	PRGO0100PE
		Cable sleeve - NPA-CP 8 buttons	PRGO0105PE
A9		Wire fixing	PRTO6626PE
A10		Hook	PRGA0001PE
A13		Cable sleeve holder - NPA-CP 2-6 buttons	PRSL9735PI
		Cable sleeve holder - NPA-CP 8 buttons	PRSL9740PI
A14		Upper cover with tightening rubber - NPA-CP 2 buttons	PRSL5810PI
		Upper cover with tightening rubber - NPA-CP 3 buttons	PRSL5838PI
		Upper cover with tightening rubber - NPA-CP 4 buttons	PRSL5815PI
		Upper cover with tightening rubber - NPA-CP 6 buttons	PRSL5820PI
		Upper cover with tightening rubber - NPA-CP 8 buttons	PRSL5825PI

TER

Accessories

Ref.	Drawing	Description	Code
A15		Central section - NPA-CP 2 buttons	PRSL5813PI
		Central section - NPA-CP 3 buttons	PRSL5841PI
		Central section - NPA-CP 4 buttons	PRSL5818PI
		Central section - NPA-CP 6 buttons	PRSL5823PI
		Central section - NPA-CP 8 buttons	PRSL5828PI
A16		Lower enclosure, tightening rubber, screws - NPA-CP 2 buttons	PRSL5812PI
		Lower enclosure, tightening rubber, screws - NPA-CP 3 buttons	PRSL5840PI
		Lower enclosure, tightening rubber, screws - NPA-CP 4 buttons	PRSL5817PI
		Lower enclosure, tightening rubber, screws - NPA-CP 6 buttons	PRSL5822PI
		Lower enclosure, tightening rubber, screws - NPA-CP 8 buttons	PRSL5827PI
A17		Cable clamp	PRSL9210AU
A18		Screws for cable clamp	PRVI0215PE

Disks

RED										
PRTA002XPI	PRTA005XPI	PRTA006XPI	PRTA007XPI	PRTA008XPI	PRTA011XPI	PRTA012XPI	PRTA015XPI	PRTA016XPI	PRTA018XPI

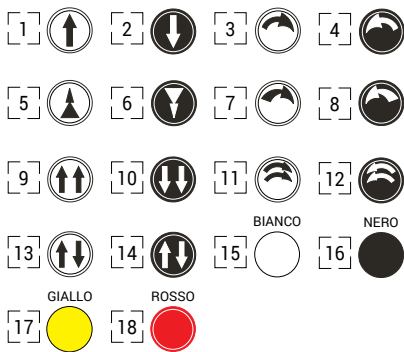|				YELLOW	WHITE	BLACK
PRTA019XPI	PRTA022XPI	PRTA023XPI	PRTA026XPI	PRTA027XPI	PRTA097XPI	PRTA098XPI	PRTA099XPI

NPA-CP - REQUEST FORM FOR NON STANDARD CONTROL STATION

Instructions

Fill in the chart to the left according to the number of control elements required.

1 **Control elements**: in the broken-line box enter the number corresponding to the control element required ([1] to [23]).

If you choose **disks with arrows** ([1] to [14]), enter the direction of the arrow into the corresponding circle.

2 **Switches:** in the unbroken boxes enter the letters corresponding to the switches required ([A] to [F]) .

ATTENTION: mushroom pushbuttons are always fitted with PRSL0508PI switches (1 speed 3NC).

3 **Mechanical interlock**: tick the boxes where the mechanical interlock (MI) between two control elements is required. Eg. [MI]

4 **Cable sleeve and hook:** tick the appropriate boxes to show where the cable sleev, the hook and the wire fixing must be assembled (top or bottom).

3 actuators

2-4-6-8 actuators

---

1 **Control elements**

[1] ⬆ [2] ⬇ [3] ↰ [4] ↱

[5] ⬍ [6] ⬍ [7] ↶ [8] ↷

[9] ⬆⬆ [10] ⬇⬇ [11] ↰↰ [12] ↱↱

BIANCO   NERO

[13] ⬆⬇ [14] ⬆⬇ [15] ○ [16] ●

GIALLO   ROSSO

[17] 🟡 [18] 🔴

[19] PRSL0517PI Blanking plug

[20] PRSL0600PI Mushroom pushbutton for emergency stop

[21] PRSL0512PI Impulse mushroom pushbutton

[22] PRSL0520PI Key mushroom pushbutton (yellow)

[23] PRSL0520RO Key mushroom pushbutton (red)

2 **Switches**

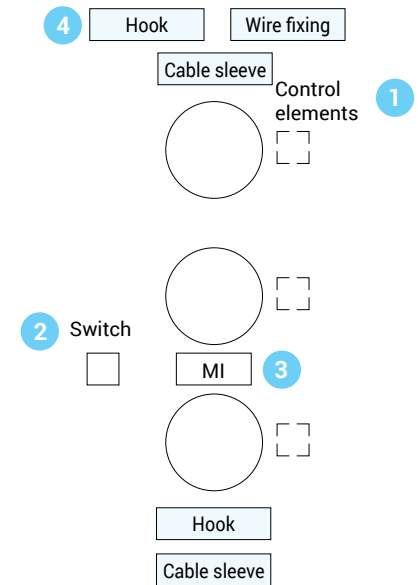ATTENTION: mushroom pushbuttons are always fitted with PRSL0508PI switches (1 speed 3NC).

1 speed switches

[A] PRSL0458PI Two-pole switch

[B] PRSL0459PI Two-pole switch
with brake contact / auxiliary contact

[C] PRSL0471PI Three-pole switch

[D] PRSL0472PI Three-pole switch
with brake contact / auxiliary contact

2 speed switches

[E] PRSL0460PI Two-pole switch

[F] PRSL0461PI   Two-pole switch
with brake contact / auxiliary contact