

MIKE

Pendant control station



Pendant station for auxiliary control with modern ergonomic shape, easy to handle, user friendly and sturdy.
Mike is the result of careful analysis of ergonomic aspects and it is rich in high-performing features to meet the most demanding requirements.

FEATURES

- Reduced installation and wiring time and costs: the cable inlet and the switches fitted in the base of the control station are separated from the actuators, mounted on the cover.
- Innovative suspension system with concealed cables to enable rapid, correct, ergonomic installation.
- Rubber pushbuttons with symbol disks to ensure protection against dust and prevent jamming when the control station is used in harsh environments.
- The emergency stop mushroom pushbutton complies with standard ISO 13850.
- Positive opening NC contacts for safety functions.
- Mechanical life of pushbuttons and switches: 10 million operations.
- IP protection degree: Mike is classified IP 65, IP 66, IP 67 and IP 69K.
- IK protection degree: Mike is classified IK 08.
- NEMA protection degree: Mike is classified Type 1, 4 and 4X.
- Extreme temperature resistance: -40°C to +80°C.
- All materials and components used are wear resistant and guarantee protection of the unit against water and dust.

OPTIONS

- Available in configurations with 4 to 15 actuators.
- Available with specific protection for actuators mounted on

the bottom of the control station.

- 1NO or 1NC switches, LEDs voltage 24/48 Vac/dc or 110/230 Vac and 110 Vdc, and potentiometers.
- Mechanical interlock to prevent simultaneous operation of opposite functions.
- Wide range of actuators in different colours: one or two speed pushbuttons, selector switches and key-selector switches in various operation configurations, pilot lights, impulse or latched mushroom pushbuttons with rotation or key-operated release.
- One speed pushbuttons and selector switches available in illuminated version in a range of colours.
- Latched on-off maintained pushbutton to give an effective visual perception of the activated function.
- Available with labels (symbols and lettering) to be applied next to the actuators or with pushbuttons with two-colour moulded permanent symbols.

CERTIFICATIONS

- CE marking and cULus* marking.
- Mike is available, upon request, with the SIL1 certification (Safety Integrity Level 1), according to Standard IEC 61508.
- Complying with accident prevention regulation BGV C 1 (only for Germany).

Use the online configurator (<https://configuratore.terworld.com>) or fill in the "request form" for accurate product configuration.

* Not available on all versions.

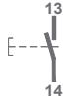
CERTIFICATIONS

Conformity to Community Directives	2014/35/UE Low Voltage Directive
	2006/42/CE Machinery Directive
	EN 60204-1 Safety of machinery - Electrical equipment of machines
	EN 60947-1 Low-voltage switchgear and controlgear
Conformity to CE Standards	EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices
	EN 60947-5-5 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function
	EN 60529 Degrees of protection provided by enclosures
	ISO 13850 Safety of machinery - Emergency stop - Principles for design
Conformity to cULus Standards	CSA-C22.2 No 14-13 Industrial Control Equipment
	UL 508 Industrial Control Equipment
SIL1	IEC 61508:2010 Part 2-4-6-7 Functional safety of electrical / electronic / programmable electronic safety-related systems
BGV C 1	Regulations for the prevention of accidents BGV C 1 (only for Germany)
Markings and homologations	CE cULus *

GENERAL TECHNICAL SPECIFICATIONS

Ambient temperature	Storage -40°C/+80°C
	Operational -40°C/+80°C
IP protection degree	IP 65 / IP 66 / IP 67 / IP 69K
IK protection degree	IK 08
NEMA protection degree	Type 1, 4 and 4X
Insulation category	Class II
Cable entry	Rubber cable sleeve (Ø 8÷26 mm)
	Cable gland M20
Operating positions	Any position
Mechanical life	1 speed pushbutton: 10x10 ⁶ operations
	2 speed pushbutton: 10x10 ⁶ operations
	Illuminated pushbutton: 10x10 ⁶ operations

TECHNICAL SPECIFICATIONS OF THE SWITCHES

Code	PRSL1800PI	PRSL1801PI
Utilisation category	AC 15	
Rated operational current	3 A	
Rated operational voltage	250 Vac	
Rated thermal current	10 A	
Rated insulation voltage	300 Vac	
Electrical reliability EN 60947-5-4	$\lambda < 2.5 \times 10^{-8}$ at 24 V, 5 mA, 5x10 ⁶ cycles	-
Mechanical life	10x10 ⁶ operations	
Connections	Screw-type terminals	
Wires	2x0.5mm ² - 2x1.5 mm ² - 1x2.5 mm ² (UL (c)UL: use 60°C or 75°C copper (CU) conductors and stiff or flexible wire 14-22 AWG)	
Tightening torque	0.5 Nm	
Switch type	Double break, slow action	
Contacts	1NO	1NC (All NC contacts are of the positive opening operation type )
Scheme		
Markings and homologations	CE cULus	

* Not available on all versions.

TECHNICAL SPECIFICATIONS OF THE LEDS

Code	PRSL1820PI	PRSL1821PI
Rated operational voltage	24-48 Vac/dc	110-240 Vac and 110 Vdc
Rated current consumption	1.30-2.70 mA	1.15-2.50 mA
Scheme		
Markings and homologations	 	

TECHNICAL SPECIFICATIONS OF THE POTENTIOMETERS

Code of potentiometer with support	SL000157	SL000095	PRSL1897PI
Ohmic value	1 kΩ	5 kΩ	10 kΩ
IP protection degree	IP 65 / IP 67		
Power rating	Max 3 W		
Life time	25x10 ³ movements (minimum)		
Operational ambient temperature	-25°C/+70°C		
Mechanical angle	300° ±5%		
Actual electrical angle	270°		
Ohmic value tolerance	±10%		
Markings and homologations			

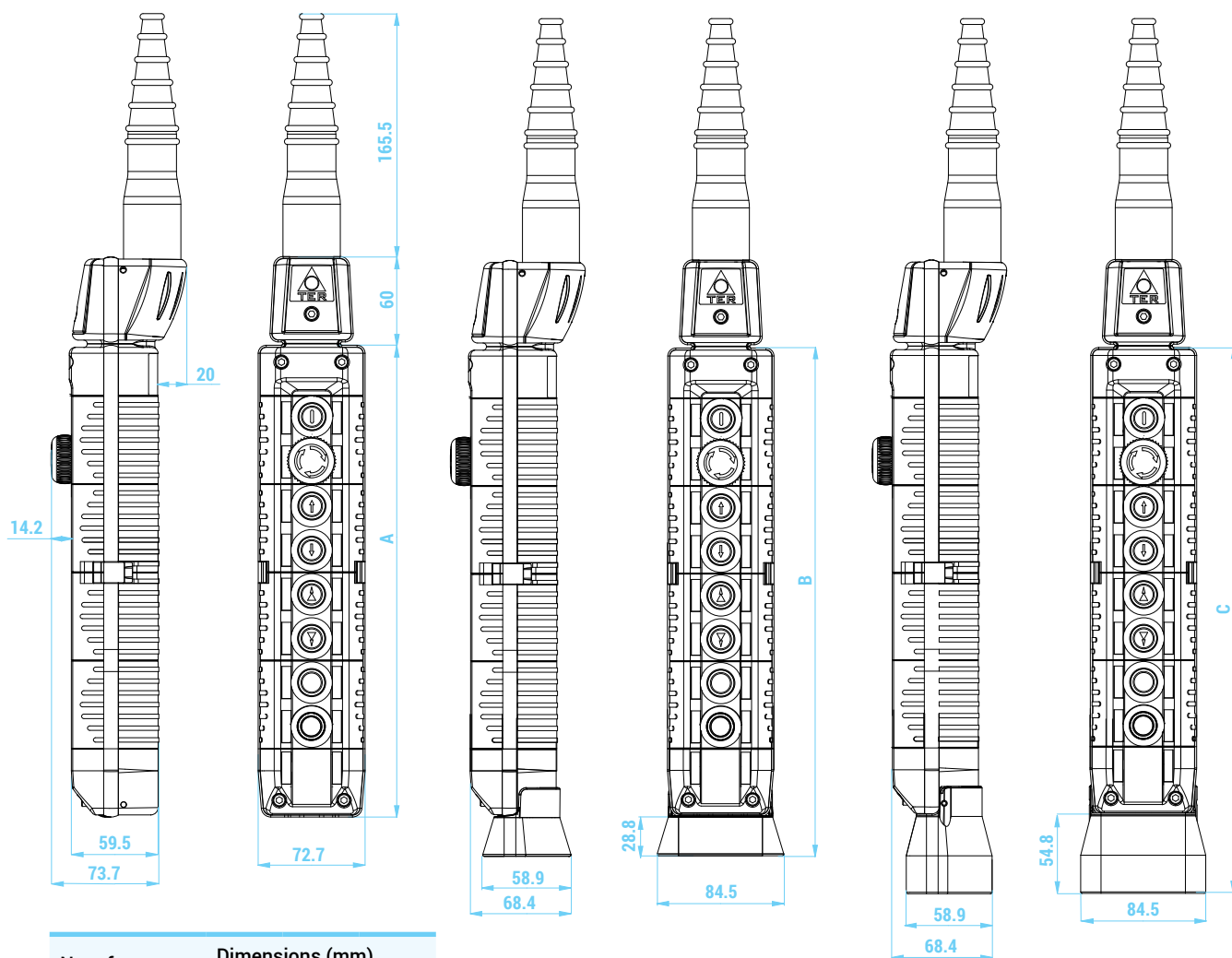
Code of potentiometer with support	PRSL1893PI	PRSL1891PI	PRSL1892PI
Ohmic value	1 kΩ	4.7 kΩ	10 kΩ
IP protection degree	IP 65		
Power rating	Max 0.4 W		
Life time	15x10 ³ movements (minimum)		
Operational ambient temperature	-25°C/+70°C		
Mechanical angle	300°		
Actual electrical angle	267°		
Ohmic value tolerance	±20%		
Markings and homologations			

OVERALL DIMENSIONS (mm)

Standard

With small lower protection

With large lower protection



No. of actuators	Dimensions (mm)		
	A	B	C
4	201	229.8	255.8
5	201	229.8	255.8
6	261	289.8	315.8
7	261	289.8	315.8
8	321	349.8	375.8
9	321	349.8	375.8
12	441	469.8	495.8
13	441	469.8	495.8
14	501	529.8	555.8
15	501	529.8	555.8

Actuators

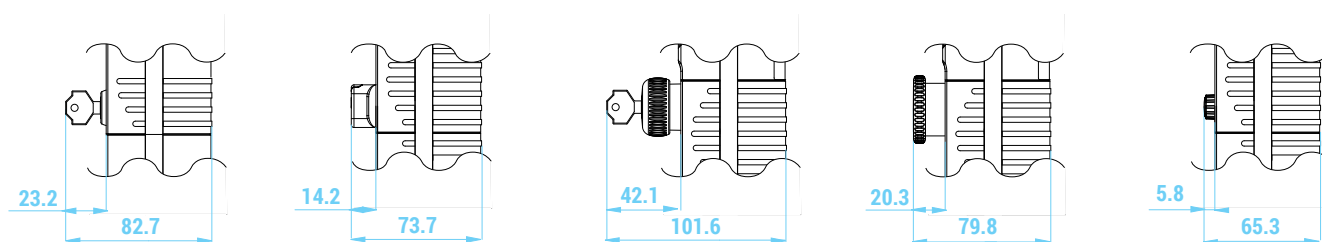
Key selector switch

Selector switch

Key mushroom pushbutton

Mushroom pushbutton Ø 40 mm

Potentiometer



Dimensions of all mushroom pushbuttons refer to the released position.

STANDARD CONTROL STATIONS

Standard control stations are not cULus certified.

4 actuators

	Reset-Alarm button	Latched mushroom pushbutton	Black buttons mechanically interlocked between pairs		Cover colour	Code
	No.2 PRSL1800PI 1NO+1NO	No.1 PRSL1801PI 1NC	No.1 PRSL1800PI 1NO	No.2 PRSL1800PI 1NO+1NO		
	1	1	2			
	1	1	2			
	1	1		2	Yellow	F70AY12020000001
	1	1		2	Black	F70AB12020000001
	1	1		2	Yellow	F70AY12000200001
	1	1		2	Black	F70AB12000200001

6 actuators

	Reset-Alarm button	Latched mushroom pushbutton	Black buttons mechanically interlocked between pairs		Cover colour	Code
	No.2 PRSL1800PI 1NO+1NO	No.1 PRSL1801PI 1NC	No.1 PRSL1800PI 1NO	No.2 PRSL1800PI 1NO+1NO		
	1	1	4			
	1	1	4			
	1	1		4	Yellow	F70EY12040000002
	1	1		4	Black	F70EB12040000001
	1	1		4	Yellow	F70EY12000400002
	1	1		4	Black	F70EB12000400001

8 actuators

	Reset-Alarm button	Latched mushroom pushbutton	Black buttons mechanically interlocked between pairs		Cover colour	Code
	No.2 PRSL1800PI 1NO+1NO	No.1 PRSL1801PI 1NC	No.1 PRSL1800PI 1NO	No.2 PRSL1800PI 1NO+1NO		
	1	1	6			
	1	1	6			
	1	1		6	Yellow	F70BY12060000001
	1	1		6	Black	F70BB12060000001
	1	1		6	Yellow	F70BY12000600001
	1	1		6	Black	F70BB12000600001

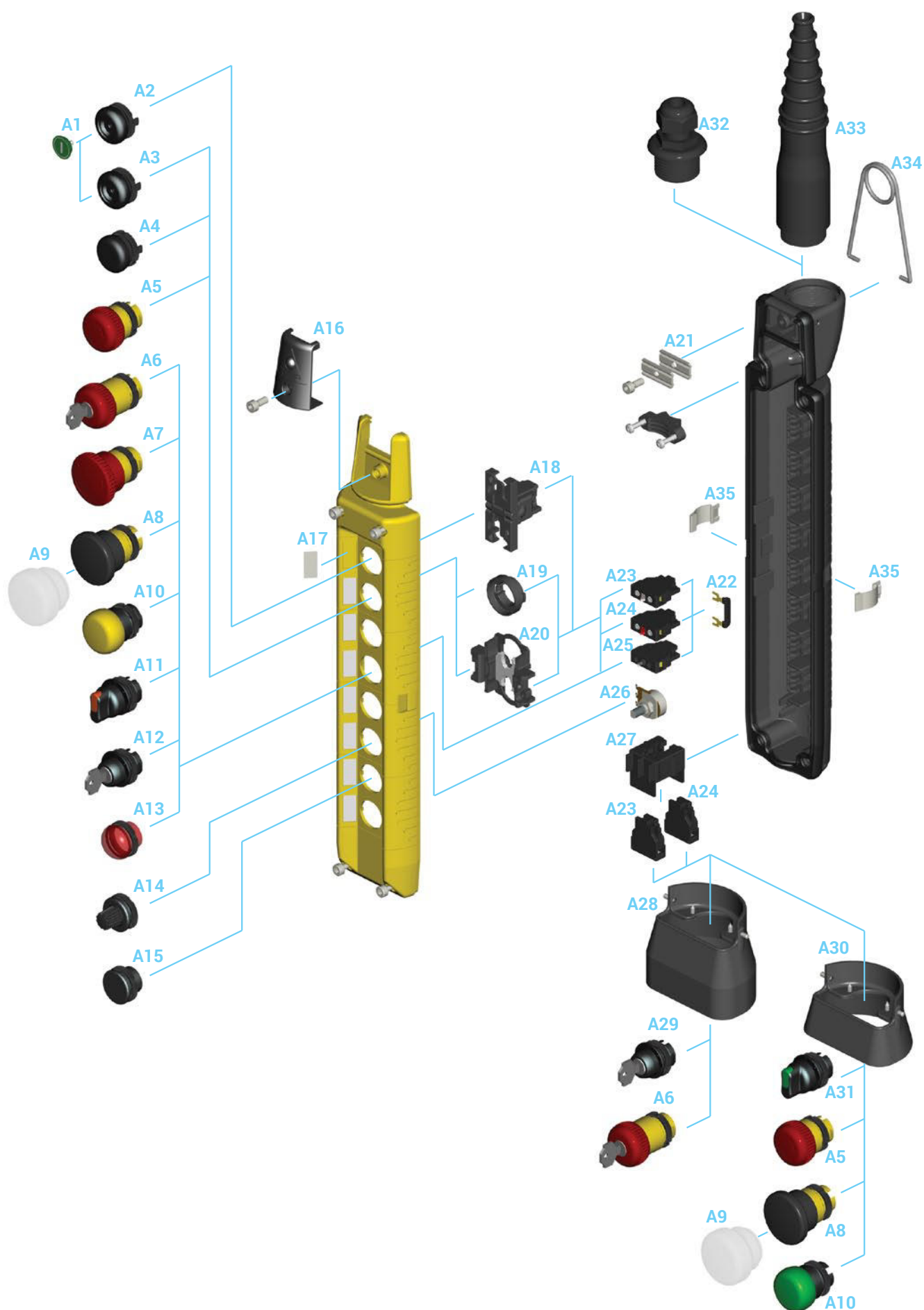
12 actuators

	Reset-Alarm button	Latched mushroom pushbutton	Black buttons mechanically interlocked between pairs		Cover colour	Code
	No.2 PRSL1800PI 1NO+1NO	No.1 PRSL1801PI 1NC	No.1 PRSL1800PI 1NO	No.2 PRSL1800PI 1NO+1NO		
	1	1	10			
	1	1	10			
	1	1		10	Yellow	F70CY12100000001
	1	1		10	Black	F70CB12100000001
	1	1		10	Yellow	F70CY12001000001
	1	1		10	Black	F70CB12001000001

14 actuators

	Reset-Alarm button	Latched mushroom pushbutton	Black buttons mechanically interlocked between pairs		Cover colour	Code
	No.2 PRSL1800PI 1NO+1NO	No.1 PRSL1801PI 1NC	No.1 PRSL1800PI 1NO	No.2 PRSL1800PI 1NO+1NO		
	1	1	12			
	1	1	12			
	1	1		12	Yellow	F70DY12120000001
	1	1		12	Black	F70DB12120000001
	1	1		12	Yellow	F70DY12001200001
	1	1		12	Black	F70DB12001200001

ASSEMBLY DRAWING



Refer to the following tables for descriptions of components: "Switches", "Potentiometers", "Actuators", "Pilot lights", "Mushroom pushbuttons", "Key selector switches", "Selector switches" and Accessories".

COMPONENTS

Switches

Ref.	Drawing	Description	Scheme	Code
A23		1NO switch		PRSL1800PI
A24		1NC switch		PRSL1801PI
A25		LED 24/48 Vac/dc		PRSL1820PI
		LED 110/230 Vac and 110 Vdc		PRSL1821PI

Potentiometers

Ref.	Drawing	Description	Code
A14 + A26		Potentiometer 1 kΩ - IP 65 / IP 67	SL000157
		Potentiometer 5 kΩ - IP 65 / IP 67	SL000095
		Potentiometer 10 kΩ - IP 65 / IP 67	PRSL1897PI
		Potentiometer 1 kΩ - IP 65	PRSL1893PI
		Potentiometer 4,7 kΩ - IP 65	PRSL1891PI
		Potentiometer 10 kΩ - IP 65	PRSL1892PI

Actuators

Ref.	Drawing	Description	Code
A1		Disk for pushbutton	PRTA_ _ _ _ _ See disk tables
A2		Pushbutton for latched ON-OFF maintained actuator	PRSL1803PI
A3		2 speed pushbutton	PRSL1810PI
		1 speed pushbutton	PRSL1811PI
		1 speed illuminated pushbutton	PRSL1815PI
		1 speed black pushbutton	PRSL1806PI
A4		1 speed grey pushbutton	PRSL1807PI
		2 speed black pushbutton	PRSL1808PI
		2 speed grey pushbutton	PRSL1809PI
A15		Blanking plug	PRSL1845PI
A18		Latched ON-OFF maintained actuator	PRSL1804PI

Pilot lights

Ref.	Drawing	Description	Code
A13		White	PRSL1844PI
		Green	PRSL1841PI
		Blue	PRSL1846PI
		Red	PRSL1840PI
		Yellow	PRSL1842PI
		Orange	PRSL1843PI

Mushroom pushbuttons

Ref.	Drawing	Description	Head colour	Code
A5		Latched mushroom pushbutton for emergency stop	Red	PRSL1880PI
A6		Key mushroom pushbutton	Red	PRSL1890PI
A7		Latched mushroom pushbutton for emergency stop Ø 40 mm	Red	PRSL1881PI
A8		Impulse mushroom pushbutton Ø 40 mm with yellow base	Black	PRSL1883PI
A10		Impulse mushroom pushbutton Ø 33 mm with black base	Red	PRSL1885ROC
			Blue	PRSL1885BLC
			Yellow	PRSL1885GIC
			Green	PRSL1885VEC
			Orange	PRSL1885ARC
			Black	PRSL1885NEC

Key selector switches

Ref.	Drawing	Positions	Spring return	Maintained positions	Pull-out position	Code
A12 A29		0/1	X		0	PRSL1867PI
				X	0	PRSL1868PI
A12		1/0/2	X		0	PRSL1869PI
				X	0	PRSL1870PI
		0/1/1+2	X		0	PRSL1871PI
				X	0	PRSL1872PI
		1/2 change-over	X		1	PRSL1873PI
				X	1	PRSL1874PI
		1/1+2/2	X		1+2	PRSL1875PI
				X	1+2	PRSL1876PI

Selector switches

Ref.	Drawing	Positions	Colour		Code
			Trasparent	Full	
A11 A31		0/1 Spring return	White		PRSL1855BI
			Green		PRSL1855VE
			Blue		PRSL1855BL
			Red		PRSL1855RO
			Yellow		PRSL1855GI
			Orange		PRSL1855AR
		0/1 Maintained	White		PRSL1856BI
			Green		PRSL1856VE
			Blue		PRSL1856BL
			Red		PRSL1856RO
			Yellow		PRSL1856GI
			Orange		PRSL1856AR
		0/1 Spring return		White	PRSL1855BIC
				Green	PRSL1855VEC
				Blue	PRSL1855BLC
				Red	PRSL1855ROC
				Yellow	PRSL1855GIC
				Orange	PRSL1855ARC
		0/1 Maintained		White	PRSL1856BIC
				Green	PRSL1856VEC
				Blue	PRSL1856BLC
				Red	PRSL1856ROC
				Yellow	PRSL1856GIC
				Orange	PRSL1856ARC
A11		1/0/2 Spring return	White		PRSL1857BI
			Green		PRSL1857VE
			Blue		PRSL1857BL
			Red		PRSL1857RO
			Yellow		PRSL1857GI
			Orange		PRSL1857AR
		1/0/2 Maintained	White		PRSL1858BI
			Green		PRSL1858VE
			Blue		PRSL1858BL
			Red		PRSL1858RO
			Yellow		PRSL1858GI
			Orange		PRSL1858AR
		1/0/2 Spring return		White	PRSL1857BIC
				Green	PRSL1857VEC
				Blue	PRSL1857BLC
				Red	PRSL1857ROC
				Yellow	PRSL1857GIC
				Orange	PRSL1857ARC
		1/0/2 Maintained		White	PRSL1858BIC
				Green	PRSL1858VEC
				Blue	PRSL1858BLC
				Red	PRSL1858ROC
				Yellow	PRSL1858GIC
				Orange	PRSL1858ARC

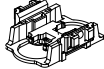
Selector switches

Ref.	Drawing	Positions	Colour		Code
			Trasparent	Full	
A11		1/1+2/2 Spring return	White		PRSL1863BI
			Green		PRSL1863VE
			Blue		PRSL1863BL
			Red		PRSL1863RO
			Yellow		PRSL1863GI
			Orange		PRSL1863AR
		1/1+2/2 Maintained	White		PRSL1864BI
			Green		PRSL1864VE
			Blue		PRSL1864BL
			Red		PRSL1864RO
			Yellow		PRSL1864GI
			Orange		PRSL1864AR
		1/1+2/2 Spring return		White	PRSL1863BIC
				Green	PRSL1863VEC
				Blue	PRSL1863BLC
				Red	PRSL1863ROC
				Yellow	PRSL1863GIC
				Orange	PRSL1863ARC
		1/1+2/2 Maintained		White	PRSL1864BIC
				Green	PRSL1864VEC
				Blue	PRSL1864BLC
				Red	PRSL1864ROC
				Yellow	PRSL1864GIC
				Orange	PRSL1864ARC
		0/1/1+2 Spring return	White		PRSL1859BI
			Green		PRSL1859VE
			Blue		PRSL1859BL
			Red		PRSL1859RO
			Yellow		PRSL1859GI
			Orange		PRSL1859AR
		0/1/1+2 Maintained	White		PRSL1860BI
			Green		PRSL1860VE
			Blue		PRSL1860BL
			Red		PRSL1860RO
			Yellow		PRSL1860GI
			Orange		PRSL1860AR
		0/1/1+2 Spring return		White	PRSL1859BIC
				Green	PRSL1859VEC
				Blue	PRSL1859BLC
				Red	PRSL1859ROC
				Yellow	PRSL1859GIC
				Orange	PRSL1859ARC
		0/1/1+2 Maintained		White	PRSL1860BIC
				Green	PRSL1860VEC
				Blue	PRSL1860BLC
				Red	PRSL1860ROC
				Yellow	PRSL1860GIC
				Orange	PRSL1860ARC

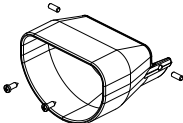
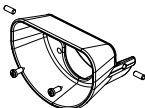
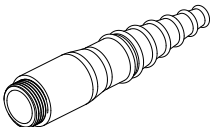
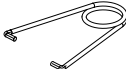
Selector switches

Ref.	Drawing	Positions	Colour		Code
			Transparent	Full	
A11		1/2. Spring return	White		PRSL1861BI
			Green		PRSL1861VE
			Blue		PRSL1861BL
			Red		PRSL1861RO
			Yellow		PRSL1861GI
			Orange		PRSL1861AR
		1/2. Maintained	White		PRSL1862BI
			Green		PRSL1862VE
			Blue		PRSL1862BL
			Red		PRSL1862RO
			Yellow		PRSL1862GI
			Orange		PRSL1862AR
		1/2. Spring return		White	PRSL1861BIC
				Green	PRSL1861VEC
				Blue	PRSL1861BLC
				Red	PRSL1861ROC
				Yellow	PRSL1861GIC
				Orange	PRSL1861ARC
		1/2. Maintained		White	PRSL1862BIC
				Green	PRSL1862VEC
				Blue	PRSL1862BLC
				Red	PRSL1862ROC
				Yellow	PRSL1862GIC
				Orange	PRSL1862ARC

Accessories

Ref.	Drawing	Description	Code
A9		Transparent protective cap for impulse mushroom pushbutton Ø 40 mm	PRGU6100PE
A16		Cable cover with TER logo	PRSL1832PI
		Blank cable cover	PRSL1836PI
A17		Label sheet - Symbols	PRET0215PE
		Label sheet - German	PRET0220DE
		Label sheet - English	PRET0220EN
		Label sheet - Spanish	PRET0220ES
		Label sheet - French	PRET0220FR
		Label sheet - Italian	PRET0220IT
A19		Button-switch spacer	PRSL8512PI
A20		Mechanical interlock	PRSL1850PI
A21		Complete wire clamp	PRSL1896PI
A22		Insulated connecting bridge - positions 3-4 (bag with 5 pieces)	PRSL1911PI
		Insulated connecting bridge - positions 2-4 (bag with 5 pieces)	PRSL1912PI
		Insulated connecting bridge - positions 1-4 (bag with 5 pieces)	PRSL1913PI
		Insulated connecting bridge - positions 1-3 (bag with 5 pieces)	PRSL1914PI
		Insulated connecting bridge - positions 1-2 (bag with 5 pieces)	PRSL1915PI
		Insulated connecting bridge - positions 1-2-3 (bag with 5 pieces)	PRSL1916PI

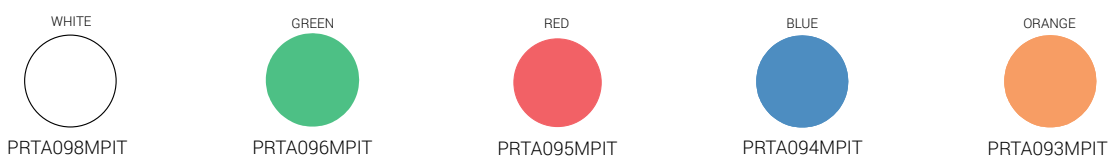
Accessories

Ref.	Drawing	Description	Code
A27		1-2-3 switch holder	PRSL8750PI
A28		Large protection	PRSL1831PI
A30		Small protection	PRSL1830PI
A32		Cable gland M20 with reduction	PRSL1910PI
A33		Cable sleeve	PRSL0145PE
A34		Hook	PRGA0012PE
A35		Closing clip	PRTR1035PE

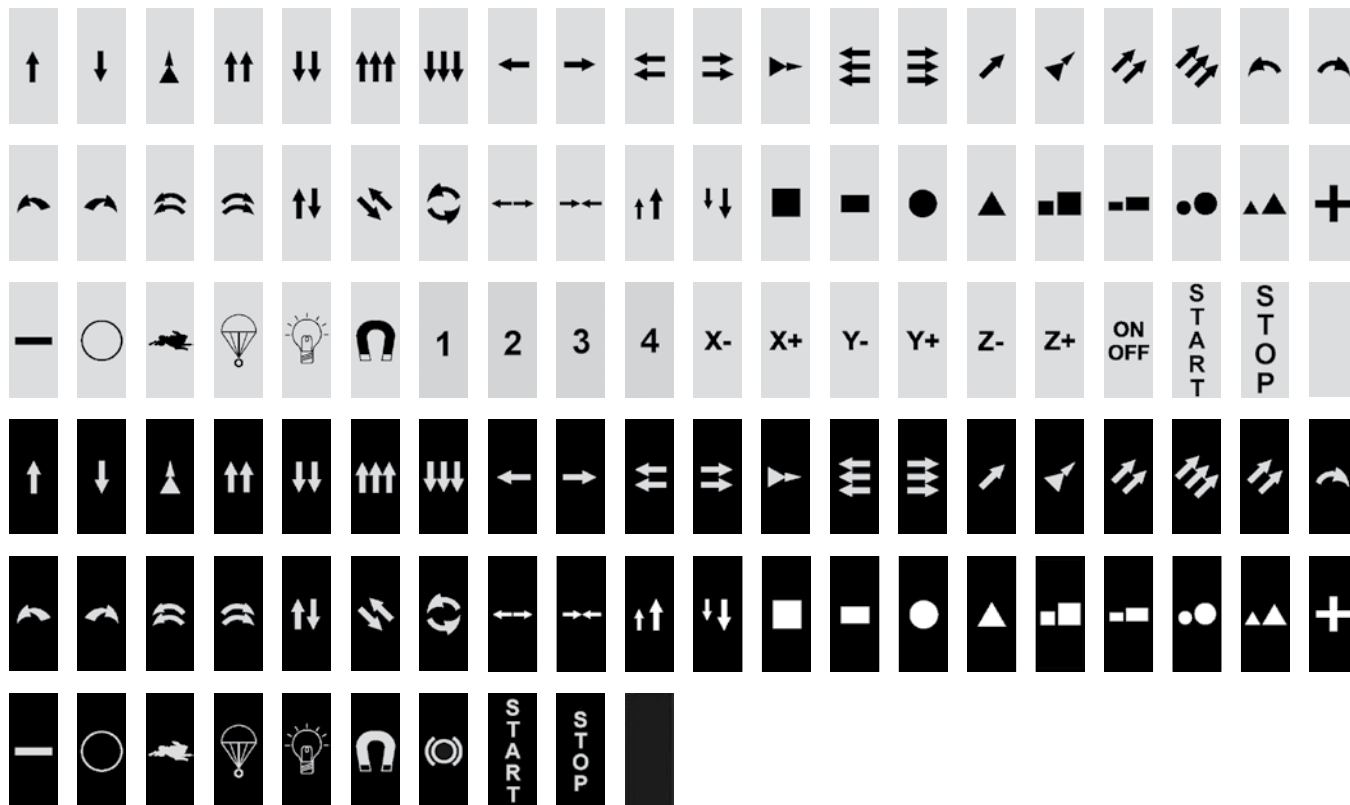
Full colour disks



Transparent disks



Label sheet - Symbols



Label sheet - English

START	ALARM	RESET ALARM	RESET	STOP	LIGHT	RESET LINE	STOP LINE	START BUCKET	STOP BUCKET
BRAKE	BACK	UP	DOWN	UP LIFTING	DOWN LIFTING	UP LIFTING 1-2 SPEED	DOWN LIFTING 1-2 SPEED	UP LIFTING 3RD SPEED	DOWN LIFTING 3RD SPEED
UP LIFTING FAST	DOWN LIFTING FAST	LIFTING 2ND SPEED	LIFTING 3RDSPEED	UP AUXIL. LIFTING	DOWN AUXIL. LIFTING	UP MAIN LIFTING	DOWN MAIN LIFTING	UP FAST MAIN LIFTING	DOWN FAST MAIN LIFTING
UP AUXIL. LIFTING 1-2 S.	DOWN AUXIL. LIFTING 1-2 S.	UP MAIN LIFTING 1-2 S.	DOWN MAIN LIFTING 1-2 S.	UP WINCH	DOWN WINCH	UP WINCH 1-2 SPEED	DOWN WINCH 1-2 SPEED	UP FAST WINCH	DOWN FAST WINCH
UP SLOW RIGHT WINCH	DOWN SLOW RIGHT WINCH	UP FAST RIGHT WINCH	DOWN FAST RIGHT WINCH	UP SLOW LEFT WINCH	UP FAST LEFT WINCH	DOWN FAST LEFT WINCH	UP HOIST	DOWN HOIST	UP HOIST 1-2 SPEED
DOWN HOIST 1-2 SPEED	UP FAST HOIST	DOWN FAST HOIST	FORWARD	BACKWARD	FORWARD TROLLEY	BACKWARD TROLLEY	FORWARD FAST TROLLEY	BACKWARD FAST TROLLEY	FORWARD TROLLEY 1-2 S.
BACKWARD TROLLEY 1-2 S.	FORWARD BRIDGE	BACKWARD BRIDGE	FORWARD FAST BRIDGE	BACKWARD FAST BRIDGE	FORWARD BRIDGE 1-2 S.	BACKWARD BRIDGE 1-2 S.	FORWARD TRANSLATION	BACKWARD TRANSLATION	LEFT
RIGHT	LEFT TROLLEY	RIGHT TROLLEY	LEFT FAST TROLLEY	RIGHT FAST TROLLEY	LEFT TROLLEY 1-2 S.	RIGHT TROLLEY 1-2 S.	LEFT BRIDGE	RIGHT BRIDGE	LEFT FAST BRIDGE
DOWN SLOW LEFT WINCH	RIGHT FAST BRIDGE	LEFT BRIDGE 1-2 S.	RIGHT BRIDGE 1-2 S.	CCW ROTATION	CW ROTATION	CCW FAST ROTATION	CW FAST ROTATION	CCW ROTATION 1-2 S.	CW ROTATION 1-2 S.
CCW ROTATION 3RD SPEED	CW ROTATION 3RD SPEED	LEFT CTRL STATION	RIGHT CTRL STATION	TROLLEY LEFT	TROLLEY RIGHT	SLOW	FAST	FAST TROLLEY	FAST BRIDGE
FAST LIFTING	FAST ROTATION	WINCH MATCHING	OPEN	CLOSE	OPEN GRAPPLE	CLOSE GRAPPLE	OPEN BUCKET	CLOSE BUCKET	OPEN DOOR
CLOSE DOOR	SPEED UP	SPEED DOWN	RAISE	LOWER	LOAD	DOWNLOAD	ENERGIZE	DE-ENERGIZE	ENERGIZE MAGNET
DE-ENERGIZE MAGNET	APPROACH	CONSENT	AUTOMATIC	MANUAL	MAN-0-AUTO	OFF-MAN-AUTO	ON	OFF	ON-OFF
IN	OUT	NORTH	SOUTH	EAST	WEST	OVERLOAD	TARE	1-1+2-2	1-2-1+2
1+2	ON-OFF	A-A+B-B							

Label sheet - Italian

MARCIA	ALLARME	MARCIA ALLARME	ARRESTO	STOP	LUCE	MARCIA LINEA	ARRESTO LINEA	MARCIA BENNA	ARRESTO BENNA
FRENO	RITORNO	SALITA	DISCESA	SALITA SOLLEV.	DISCESA SOLLEV.	SALITA SOLL. 1-2 VEL.	DISCESA SOLL. 1-2 VEL.	SALITA SOLL. 3a VEL.	DISCESA SOLL. 3a VEL.
SALITA SOLL. VEL.	DISCESA SOLL. VEL.	2a VELOCITÀ SOLLEV.	3a VELOCITÀ SOLLEV.	SALITA SOLL. AUSILIARIO	DISCESA SOLL. AUSILIARIO	SALITA SOLL. PRINCIPALE	DISCESA SOLL. PRINCIPALE	SALITA SOLL. PRINCIP. VEL.	DISCESA SOLL. PRINCIP. VEL.
SALITA AUSIL. 1-2 V.	DISCESA AUSIL. 1-2 V.	SALITA PRINCIP. 1-2 V.	DISCESA PRINCIP. 1-2 V.	SALITA ARGANO	DISCESA ARGANO	SALITA ARGANO 1-2 V.	DISCESA ARGANO 1-2 V.	SALITA ARGANO VEL.	DISCESA ARGANO VEL.
ARGANO DX SALITA LENTA	ARGANO DX DISC. LENTA	ARGANO DX SALITA VEL.	ARGANO DX DISCESA VEL.	ARGANO SIN SALITA LENTA	ARGANO SIN SALITA VEL.	ARGANO SIN DISCESA VEL.	SALITA PARANCO	DISCESA PARANCO	SALITA PAR. 1-2 V.
DISCESA PAR. 1-2 V.	SALITA PAR. VEL.	DISCESA PAR. VEL.	AVANTI	INDIETRO	AVANTI CARRELLO	INDIETRO CARRELLO	AVANTI CARR. VEL.	INDIETRO CARR. VEL.	AVANTI CARR. 1-2 V.
INDIETRO CARR. 1-2 V.	AVANTI PONTE	INDIETRO PONTE	AVANTI PONTE VEL.	INDIETRO PONTE VEL.	AVANTI PONTE 1-2 V.	INDIETRO PONTE 1-2 V.	AVANTI TRASLAZIONE	INDIETRO TRASLAZIONE	SINISTRA
DESTRA	SINISTRA CARRELLO	DESTRA CARRELLO	SINISTRA CARR. VEL.	DESTRA CARR. VEL.	SINISTRA CARR. 1-2 V.	DESTRA CARR. 1-2 V.	SINISTRA PONTE	DESTRA PONTE	SINISTRA PONTE VEL.
ARGANO SIN DISC. LENTA	DESTRA PONTE VEL.	SINISTRA PONTE 1-2 V.	DESTRA PONTE 1-2 V.	SINISTRA ROTAZIONE	DESTRA ROTAZIONE	SINISTRA ROTAZ. VEL.	DESTRA ROTAZ. VEL.	SINISTRA ROTAZ. 1-2 V.	DESTRA ROTAZ. 1-2 V.
SINISTRA ROTAZ. 3a V.	DESTRA ROTAZ. 3a V.	SINISTRA PULSANTIERA	DESTRA PULSANTIERA	CARRELLO SINISTRO	CARRELLO DESTRO	LENTO	VELOCE	VELOCE CARRELLO	VELOCE PONTE
VELOCE SOLLEV.	VELOCE ROTAZIONE	ACCOPPIAMENTO ARGANO	APRE	CHIUDE	APRE PINZA	CHIUDE PINZA	APRE BENNA	CHIUDE BENNA	APERTURA PORTELLO
CHIUSURA PORTELLO	ACCELERA	DECELERA	ALZA	ABBASSA	CARICO	SCARICO	ECCITA	DISECCITA	ECCITA MAGNETE
DISECCITA MAGNETE	ACCOSTA	CONSENSO	AUTOMATICO	MANUALE	MAN-0-AUTO	OFF-MAN-AUTO	ON	OFF	ON-OFF
IN	OUT	NORD	SUD	EST	OVEST	SOVRACCARICO	TARA	1-1+2-2	1-2-1+2
1+2	ON-OFF	A-A+B-B							

Label sheet - French

MARCHE	ALARME	MARCHE ALARME	RESET	ARRET	LUMIERE	MARCHE LIGNE	ARRET LIGNE	MARCHE BENNE	ARRET BENNE
FREIN	RETOUR	MONTEE	DESCENTE	MONTEE LEVAGE	DESCENTE LEVAGE	MONTEE LEV. 1-2 VIT.	DESCENTE LEV. 1-2 VIT.	MONTEE LEV. 3EME VIT.	DESCENTE LEV. 3EME VIT.
MONTEE LEV. VITE	DESCENTE LEV. VITE	MONTEE LEV. 2EME VIT.	DESCENTE LEV. 3EME VIT.	MONTEE LEV. AUXILIAIRE	DESCENTE LEV. AUXILIAIRE	MONTEE LEV. PRINCIPAL	DESCENTE LEV. PRINCIPAL	MONTEE LEV. PRINC. VITE	DESCENTE LEV. PRINC. VITE
MONTEE LEV. AUX. 1-2 VIT.	DESCENTE LEV. AUX. 1-2 VIT.	MONTEE LEV. PRINC. 1-2 VIT.	DESCENTE LEV. PRINC. 1-2 VIT.	MONTEE TREUIL	DESCENTE TREUIL	MONTEE TREUIL 1-2 VIT.	DESCENTE TREUIL 1-2 VIT.	MONTEE TREUIL VITE	DESCENTE TREUIL VITE
TREUIL DROITE MONTEE LENTE	TREUIL DROITE DESC. LENTE	TREUIL DROITE MONTEE VITE	TREUIL DROITE DESCENTE VITE	TREUIL AUICHE MONTEE LENTE	TREUIL AUICHE MONTEE VITE	TREUIL AUICHE DESCENTE VITE	MONTEE PALAN	DESCENTE PALAN	MONTEE PALAN 1-2 VIT.
DESC. PALAN 1-2 VIT.	MONTEE PALAN VITE	DESCENTE PALAN VITE	AVANT	ARRIERE	AVANT CHARIOT	ARRIERE CHARIOT	AVANT CHARIOT VITE	ARRIERE CHARIOT VITE	AVANT CHARIOT 1-2 VIT.
ARR. CHARIOT 1-2 VIT.	AVANT PONT	ARRIERE PONT	AVANT PONT VITE	ARRIERE PONT VITE	AVANT PONT 1-2 VIT.	ARRIERE PONT 1-2 VIT.	AVANT TRANSLATION	ARRIERE TRANSLATION	GAUCHE
DROITE	GAUCHE CHARIOT	DROITE CHARIOT	GAUCHE CHARIOT VITE	DROITE CHARIOT VITE	GAUCHE CHARIOT 1-2 VIT.	DROITE CHARIOT 1-2 VIT.	GAUCHE PONT	DROITE PONT	GAUCHE PONT VITE
TREUIL GAUCHE DESC. LENTE	DROITE PONT VITE	GAUCHE PONT 1-2 VIT.	DROITE PONT 1-2 VIT.	GAUCHE ROTATION	DROITE ROTATION	GAUCHE ROTATION VITE	DROITE ROTATION VITE	GAUCHE ROT. 1-2 VIT.	DROITE ROT. 1-2 VIT.
GAUCHE ROT. 3EME VIT.	DROITE ROT. 3EME VIT.	GAUCHE BOITE A BOUTONS	DROITE BOITE A BOUTONS	CHARIOT GAUCHE	CHARIOT DROITE	LENT	VITE	VITE CHARIOT	VITE PONT
VITE LEVAGE	VITE ROTATION	ACCOPPLEMNT. TREUIL	OUVRE	FERME	OUVRE PINCE	FERME PINCE	OUVRE BENNE	FERME BENNE	OUVRE PORTAIL
FERME PORTAIL	ACCELERATION	DECELERATION	HISSE	ABAISSE	CHARGE	DECHARGE	EXCITER	DESEXCITER	MAGNETISE
DEMAGNETISE	APPROCHE	CONSEMENT	AUTOMATIQUE	MANUEL	MAN-0-AUTO	OFF-MAN-AUTO	ON	OFF	ON-OFF
IN	OUT	NORD	SUD	EST	OUEST	SURCHARGE	TARE	1-1+2-2	1-2-1+2
1+2	ON-OFF	A-A+B-B							

Label sheet - German

BETRIEB	ALARM	FAHRT ALARM	SPERRE	STOP	LICHT	STROM AN	STROM AUS	GREIFER BETRIEB	GREIFER STOP
BREMSE	ZURÜCK	RAUF	RUNTER	HUB RAUF	HUB RUNTER	HUB RAUF 1.-2. GANG	HUB RUNTER 1.-2. GANG	HUB RAUF 3. GANG	HUB RUNTER 3. GANG
HUB SCHNELL RAUF	HUB RUNTER SCHNELL	2. GANG HEBEN	3. GANG HEBEN	HILFSHUB RAUF	HILFSHUB RUNTER	HAUPTHUB RAUF	HAUPTHUB RUNTER	HAUPTHUB RAUF SCH.	HAUPTHUB RUNTER SCH.
HILFSHUB RAUF 1.-2. GANG	HILFSHUB RUNTER 1.-2. GANG	HAUPTHUB 1.-2. GANG	HAUPTHUB RUNTER 1.-2. GANG	WINDE RAUF	WINDE RUNTER	WINDE RAUF 1.-2. GANG	WINDE RUNTER 1.-2. GANG	WINDE RAUF SCHNELL	WINDE RUNTER SCHNELL
WINDE RECHTS LANGS. HOCH	WINDE RECHTS LANGS. RUNTER	WINDE RECHTS SCHNELL RAUF	WINDE RECHTS SCHNELL RUNTER	WINDE LINKS LANGSAM RAUF	WINDE LINKS SCHNELL RAUF	WINDE LINKS SCHNELL RUNTER	FLASCHENZUG HOCH	FLASCHENZUG RUNTER	FLASCHENZUG HOCH 1.-2. GANG
FLASCHENZUG RUNTER 1.-2. GANG	FLASCHENZUG HOCH SCHNELL	FLASCHENZUG RUNTER SCHNELL	VORWÄRTS	RÜCKWÄRTS	LAUFKATZE VORWÄRTS	LAUFKATZE RÜCKWÄRTS	LAUFKATZ VORWÄRTS SCHNELL	LAUFKATZE RÜCKWÄRTS SCHNELL	LAUFKATZE VORW. 1.-2. GANG
LAUFKATZE ZURÜCK 1.-2. GANG	KRANBRUECKE VORWÄRTS	KRANBRUECKE RÜCKWÄRTS	KRANBRUECKE VORW. SCHNELL	KRANBRUECKE RÜCKW. SCHNELL	KRANBRUECKE VORW. 1.-2. GANG	KRANBRUECKE ZUR. 1.-2. GANG	BEWEGUNG VORWÄRTS	BEWEGUBG RÜCKWÄRTS	LINKS
RECHTS	LAUFKATZE - LINKS	LAUFKATZE - RECHTS	LAUFKATZE LINKS SCHNELL	LAUFKATZE RECHTS SCHNELL	LAUFKATZE LINKS 1.-2. GANG	LAUFKATZE RECHTS 1.-2. GANG	KRANBRUECKE RECHTS	KRANBRUECKE LINKS	KRANBRÜCKE LINKS SCHNELL
WINDE LINKS LANGSAM RUNTER	KRANBRÜCKE RECHTS SCHNELL	KRANBRÜCKE LINKS 1.-2. GANG	KRANBRÜCKE RECHTS 1.-2. GANG	DREHUNG LINKS	DREHUNG RECHTS	DREHUNG LINKS SCHNELL	DREHUNG RECHTS SCHNELL	DREHUNG LINKS 1.-2. GANG	DREHUNG RECHTS 1.-2. GANG
DREHUNG LINKS 3. GANG	DREHUNG RECHTS 3. GANG	HÄNGETASTER LINKS	HÄNGETASTER RECHTS	LINKE LAUFKATZE	RECHTE LAUFKATZE	LANGSAM	SCHNELL	LAUFKATZE SCHNELL	KRANBRÜCKE SCHNELL
HEBEN - SCHNELL	DREHUNG - SCHNELL	WINDE PAAREN	OEFFNEN	SCHLIESSEN	ZANGE OEFFNEN	ZANGE SCHLIESSEN	GREIFER OEFFNEN	GREIFER SCHLIESSEN	DECKELÖFFNUNG
DECKELVERSCHLUSS	BESCHLEUNIGEN	VERZÖGERN	ANHEBEN	ABSENKEN	LADUNG	ABLADEN	ERREGEN	ABERREGEN	MAGNETISIERUNG
ENTMAGNETISIEREN	ANNÄHERN	ENTBLOCKKUNG	AUTOMATIK	HANDBETRIEB	HANDBETR. / AUTOMATIK	AUS HANDBETR. / AUTOMATIK	AN	AUS	AN - AUS
REIN	RAUS	NORD	SÜD	OST	WEST	ÜBERBELASTUNG	TARA	1-1+2-2	1-2-1+2
1+2	ON-OFF	A-A+B-B							

Label sheet - Spanish

MARCHA	ALARMA	MARCHA ALARMA	PARO	STOP	LUZ	MARCHA LINEA	PARO LINEA	MARCHA PALA	PARO PALA
FRENO	RETORNO	SUBIR	BAJAR	SUBIR ELEVACION	BAJAR ELEVACION	SUBIR ELEV. 1-2 VEL.	BAJAR ELEV. 1-2 VEL.	SUBIR ELEV. 3ª VEL.	BAJAR ELEV. 3ª VEL.
SUBIR ELEV. RAPIDA	BAJAR ELEV. RAPIDA	2ª VEL. ELEVACION	3ª VEL. ELEVACION	SUBIR AUX. ELEVACION	BAJAR AUX. ELEVACION	SUBIR ELEV. PRINCIPAL	BAJAR ELEV. PRINCIPAL	SUBIR ELEV. PRINC. RAPIDA	BAJAR ELEV. PRINC. RAPIDA
SUBIR AUX. 1-2 VEL.	BAJAR AUX. 1-2 VEL.	SUBIR PRINC. 1-2 VEL.	BAJAR PRINC. 1-2 VEL.	SUBIR POLIPASTO	BAJAR POLIPASTO	SUBIR POLIP. 1-2 VEL.	BAJAR POLIP. 1-2 VEL.	SUBIR POLIP. RAPIDO	BAJAR POLIP. RAPIDO
POLIP. DER. SUBIR LENTO	POLIP. DER. BAJAR LENTO	POLIP. DER. SUBIR RAPIDO	POLIP. DER. BAJAR RAPIDO	POLIP. IZQ. SUBIR LENTO	POLIP. IZQ. SUBIR RAPIDO	POLIP. IZQ. BAJAR RAPIDO	SUBIR GANCHO	BAJAR GANCHO	SUBIR GANCHO 1-2 VEL.
BAJAR GANCHO 1-2 VEL.	SUBIR GANCHO RAPIDO	BAJAR GANCHO RAPIDO	ADELANTE	ATRAS	ADELANTE CARRITO	ATRAS CARRITO	ADELANTE CARR. RAPIDO	ATRAS CARR. RAPIDO	ADELANTE CARR. 1-2 VEL.
ATRAS CARR. 1-2 VEL.	ADELANTE PUENTE	ATRAS PUENTE	ADELANTE PUENTE RAPIDO	ATRAS PUENTE RAPIDO	ADELANTE PUENTE 1-2 VEL.	ATRAS PUENTE 1-2 VEL.	ADELANTE TRASLACION	ATRAS TRASLACION	IZQUIERDA
DERECHA	IZQUIERDA CARRITO	DERECHA CARRITO	IZQUIERDA CARR. RAPIDO	DERECHA CARR. RAPIDO	IZQUIERDA CARR. 1-2 VEL.	DERECHA CARR. 1-2 VEL.	IZQUIERDA PUENTE	DERECHA PUENTE	IZQUIERDA PUENTE RAPIDO
POLIP. IZQUIER. BAJAR LENTO	DERECHA PUENTE RAPIDO	IZQUIERDA PUENTE 1-2 VEL.	DERECHA PUENTE 1-2VEL.	IZQUIERDA ROTACION	DERECHA ROTACION	IZQUIERDA ROT. RAPIDA	DERECHA ROT. RAPIDA	IZQUIERDA ROT. 1-2 VEL.	DERECHA ROT. 1-2 VEL.
IZQUIERDA ROT. 3ª VEL.	DERECHA ROT. 3ª VEL.	BOTONERA IZQUIERDA	BOTONERA DERECHA	CARRITO IZQUIERDO	CARRITO DERECHO	LENTO	RAPIDO	CARRITO RAPIDO	PUENTE RAPIDO
ELEVACION RAPIDA	ROTACION RAPIDA	ACOPLAMIENTO POLIPASTO	ABRIR	CERRAR	ABRIR PINZA	CERRAR PINZA	ABRIR PALA	CERRAR PALA	ABRIR PUERTA
CERRAR PUERTA	ACELERAR	DESACELERAR	ELEVAR	DESCENDER	CARGAR	DESCARGAR	IMANTAR	DESIMANTAR	IMANTAR MAGNETO
DESIMANTAR MAGNETO	ACERCAR	CONFIRMAR	AUTOMATICO	MANUAL	MAN-0-AUTO	OFF-MAN-AUTO	ON	OFF	ON-OFF
IN	OUT	NORTE	SUR	ESTE	OESTE	SOBRECARGA	TARA	1-1+2-2	1-2-1+2
1+2	ON-OFF	A-A+B-B							

16

1 Legend - Control elements

* SWITCH ACTIVATION

It is possible to mount up to 3 switches for each control element. The chart on the right of each pushbutton or selector switch specifies which position activates the switch on the top, in the middle or on the bottom. If the selector switches are mounted with the lever facing downwards, then the activation of the switches is reversed. Eg.: 2 speed pushbutton: the first speed activates the switches on the top and in the middle, while the second speed activates the switch on the bottom.

Pushbuttons

It is possible to mount up to 3 switches for each button. LEDs can be mounted only in the middle.

		SWITCH ACTIVATION*
1	1 speed pushbutton with disk	☐ speed 1
25	1 speed black pushbutton	☐ speed 1
26	1 speed grey pushbutton	☐ speed 1
2	2 speed pushbutton with disk	☐ speed 1 ☐ speed 2
27	2 speed black pushbutton	☐ speed 1 ☐ speed 2
28	2 speed grey pushbutton	☐ speed 1 ☐ speed 2
3	1 speed illuminated pushbutton with disk	☐ speed 1 ☐ LED ☐ speed 1

Mushroom pushbuttons

All mushroom pushbuttons activate all the switches at the same time.

4	Latched mushroom pushbutton for emergency stop
5	Latched mushroom pushbutton for emergency stop Ø 40 mm
6	Key mushroom pushbutton
7	Impulse mushroom pushbutton Ø 33 mm with black base
8	Impulse black mushroom pushbutton Ø 40 mm with yellow base
9	Impulse black mushroom pushbutton Ø 40 mm with yellow base and protective cap

11 Pilot light

12 Blanking plug

Toggle selector switches

It is possible to mount only 2 switches for each selector. In the middle it is possible to mount only the LED for illuminated selector switches.

		SWITCH ACTIVATION*
15	0/1 spring return	☐ pos 1 ☐ pos 1
16	0/1 maintained positions	☐ pos 1 ☐ pos 1
17	1/0/2 spring return	☐ pos 1 ☐ pos 2
18	1/0/2 maintained positions	☐ pos 1 ☐ pos 2
19	1/1+2/2 spring return	☐ pos 1 and 1+2 ☐ pos 2 and 1+2
20	1/1+2/2 maintained positions	☐ pos 1 and 1+2 ☐ pos 2 and 1+2
21	0/1/1+2 spring return	☐ pos 1+2 ☐ pos 1 and 1+2
22	0/1/1+2 maintained positions	☐ pos 1+2 ☐ pos 1 and 1+2
23	1/2 spring return	☐ pos 1 ☐ pos 2
24	1/2 maintained positions	☐ pos 1 ☐ pos 2

Key selector switches

It is possible to mount only 2 switches for each selector, and no switch/LED in the central position.

		SWITCH ACTIVATION*
30	0/1 spring return key out in position 0	☐ pos 1 ☐ pos 1
31	0/1 maintained positions key out in position 0	☐ pos 1 ☐ pos 1
32	1/0/2 spring return key out in position 0	☐ pos 1 ☐ pos 2
33	1/0/2 maintained positions key out in position 0	☐ pos 1 ☐ pos 2
34	0/1/1+2 spring return key out in position 0	☐ pos 1+2 ☐ pos 1 and 1+2
35	0/1/1+2 maintained positions key out in position 0	☐ pos 1+2 ☐ pos 1 and 1+2
36	1/2 change over spring return key out in position 1	☐ pos 1 ☐ pos 2
37	1/2 change over maintained positions key out in position 1	☐ pos 1 ☐ pos 2
38	1/1+2/2 spring return key out in position 1+2	☐ pos 1 and 1+2 ☐ pos 2 and 1+2
39	1/1+2/2 maintained positions key out in position 1+2	☐ pos 1 and 1+2 ☐ pos 2 and 1+2

2 Legend - Button disks

Full colour and symbol disks for pushbuttons (ref. 1 and 2)

50	GREEN	55	RED	60	RED	65	RED	70	RED	75	RED	80	RED
51	RED	56	RED	61	RED	66	RED	71	RED	76	RED	81	RED
52	RED	57	RED	62	RED	67	RED	72	RED	77	RED	82	RED
53	RED	58	RED	63	RED	68	RED	73	RED	78	RED	83	RED
54	RED	59	RED	64	RED	69	RED	74	RED	79	RED	84	RED

Transparent disks for illuminated pushbuttons (ref. 3)

84	RED	86	BLUE	88	ORANGE
85	WHITE	87	GREEN		

3 Legend - Colour of selector switches, mushroom pushbuttons, pilot lights

Non-illuminated toggle selector switches (ref. 15 to 24)

RP	Red	BP	Blue	AP	Orange
GP	Yellow	VP	Green	WP	White

Illuminated toggle selector switches (ref. 15 to 24)

RI	Red	BI	Blue	AI	Orange
GI	Yellow	VI	Green	WI	White

Impulse mushroom pushbutton with black base (ref. 7)

R	Red	B	Blue	A	Orange
G	Yellow	V	Green	N	Black

Pilot lights (ref. 11)

R	Red	B	Blue	A	Orange
G	Yellow	V	Green	W	White

90	PRSL1800PI - 1NO switch
91	PRSL1801PI - 1NC switch
92	PRSL1820PI - LED 24/48 V AC/DC
93	PRSL1821PI - LED 110/230 V AC and 110 V DC
94	SL000157 - potentiometer 1 k Ω - IP 65 / IP 67
95	SL000095 - potentiometer 5 k Ω - IP 65 / IP 67
96	PRSL1897PI - potentiometer 10 k Ω - IP 65 / IP 67
97	PRSL1893PI - potentiometer 1 k Ω - IP 65
98	PRSL1891PI - potentiometer 4.7 k Ω - IP 65
99	PRSL1892PI - potentiometer 10 k Ω - IP 65

Remarks

MIKE-D

Pendant control station



Pendant control station for **direct control** of industrial machines. Ergonomic, handy, user-friendly and sturdy, Mike-D is the result of careful analysis of ergonomic aspects and it is rich in high-performing features to meet the most demanding requirements.

FEATURES

- Reduced installation and wiring time and costs: the cable inlet and the switches fitted in the base of the control station are separated from the actuators, mounted on the cover.
- Innovative suspension system with concealed cables to enable rapid, correct, ergonomic installation.
- Rubber pushbuttons with symbol disks to ensure protection against dust and prevent jamming when the control station is used in harsh environments.
- The emergency stop mushroom pushbutton complies with standard ISO 13850.
- IP protection degree: Mike-D is classified IP 65, IP 66, IP 67 and IP 69K.
- IK protection degree: Mike-D is classified IK 09.
- 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 3 (1 speed version) or 4 actuators (2 speed version).
- Direct control 1 speed two-pole switches and 1 speed three-pole switches for emergency mushroom pushbutton.
- Mechanical interlock to prevent simultaneous operation of opposite functions.
- 1 speed pushbuttons available in different colours and latched mushroom pushbutton with rotation release.
- Available with labels (symbols and lettering) to be applied next to the actuators or with pushbuttons with two-colour moulded permanent symbols.

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
Markings and homologations	ISO 13850 Safety of machinery - Emergency stop - Principles for design
	CE

GENERAL TECHNICAL SPECIFICATIONS

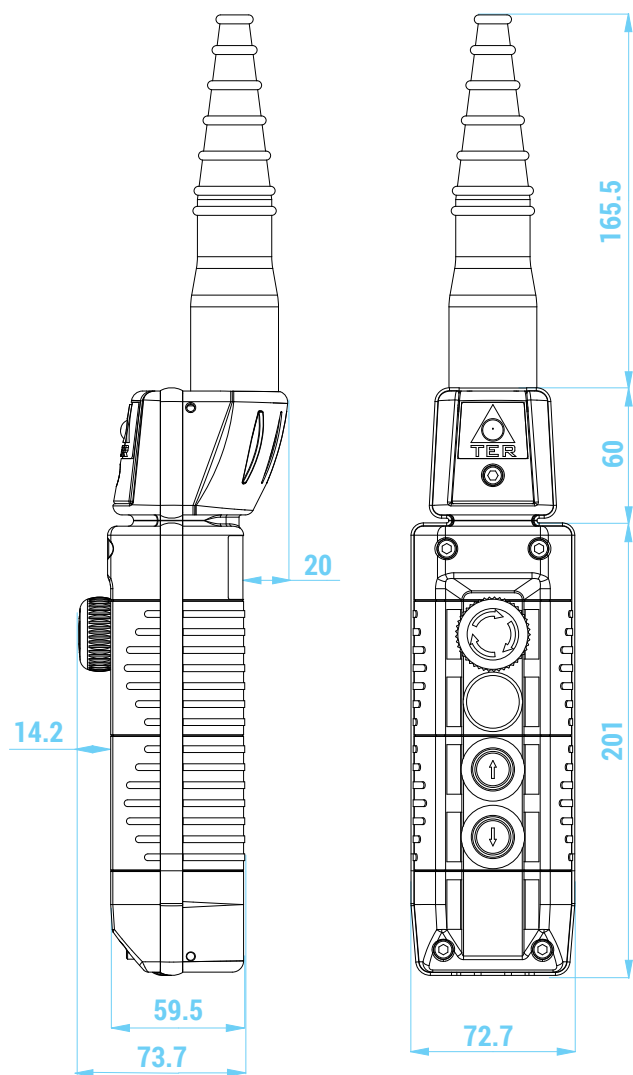
Ambient temperature	Storage -40°C/+70°C
	Operational -25°C/+70°C
IP protection degree	IP 65 / IP 66 / IP 67 / IP 69K
IK protection degree	IK 09
Insulation category	Class II
Cable entry	Rubber cable sleeve (Ø 8÷26 mm)
	Cable gland M20
Operating positions	Any position
Mechanical life of pushbuttons	10x10 ⁶ operations

TECHNICAL SPECIFICATIONS OF THE SWITCHES

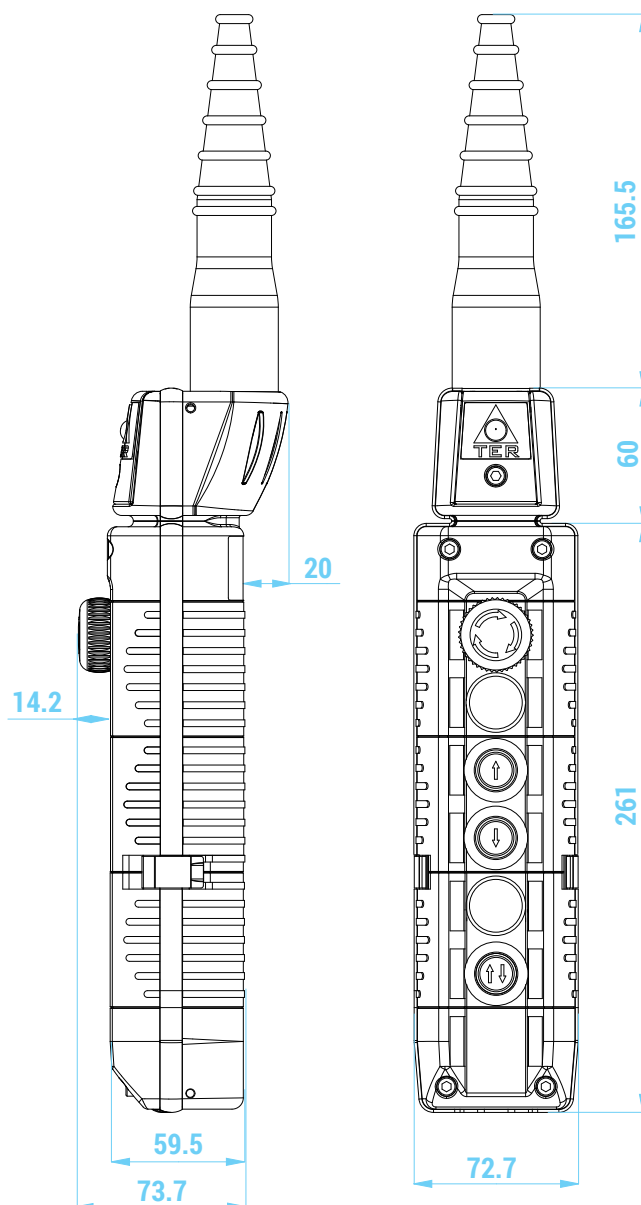
Code	PRSL1900PI	PRSL1902PI
Utilisation category	AC 3 - AC 4	AC 23B
Rated operational current	10 A	
Rated operational voltage	400 Vac	
Rated operational power	3 kW	
Rated thermal current	20 A	
Rated insulation voltage	660 Vac	
Connections	Screw-type terminals	
Wires	1x2.5 mm ² , 2x1.5 mm ²	
Tightening torque	0.8 Nm	
Switch type	Two poles , 1 speed	Three poles , 1 speed
Contacts	2NO	3NC
Scheme		
Markings and homologations	CE	

OVERALL DIMENSIONS (mm)

1 speed



2 speeds



Dimensions of the mushroom pushbutton refer to the released position.

STANDARD CONTROL STATIONS

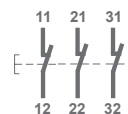
1 speed

F72AY00001



Latched mushroom pushbutton

No. 1 PRSL1902PI



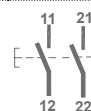
Blanking plug

-

-



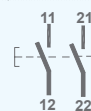
No. 1 PRSL1900PI



No. 2 buttons mechanically interlocked



No. 1 PRSL1900PI



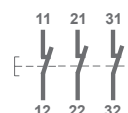
2 speeds

F72EY00001



Latched mushroom pushbutton

No. 1 PRSL1902PI



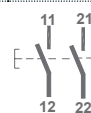
Blanking plug

-

-



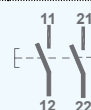
No. 1 PRSL1900PI



No. 2 buttons mechanically interlocked



No. 1 PRSL1900PI



Blanking plug

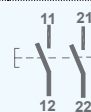
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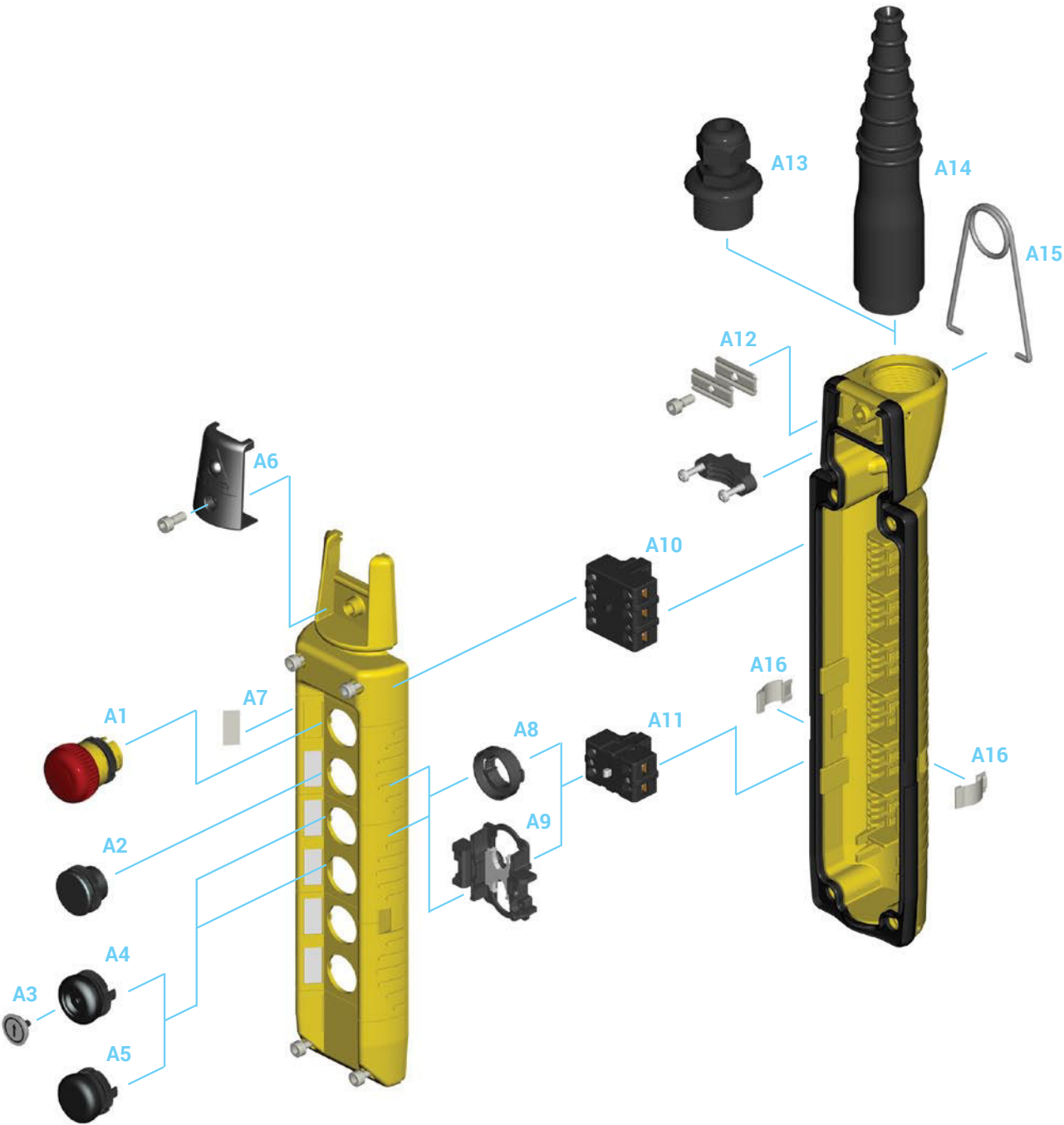
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No. 1 button



No. 1 PRSL1900PI

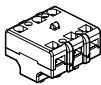
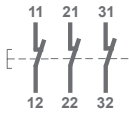
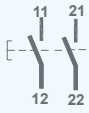




Refer to the following tables for descriptions of components: "Switches", "Actuators", "Mushroom pushbuttons" and "Accessories".

COMPONENTS

Switches

Ref.	Drawing	Description	Scheme	Code
A10		1 speed three-pole 3NC switch for emergency mushroom pushbutton		PRSL1902PI
A11		1 speed two-pole 2NO switch		PRSL1900PI

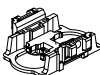
Actuators

Ref.	Drawing	Description	Code
A2		Blanking plug	PRSL1845PI
A3		Disk for pushbutton	PRTA_----- See disk table
A4		1 speed pushbutton	PRSL1811PI
A5		1 speed black pushbutton	PRSL1806PI
		1 speed grey pushbutton	PRSL1807PI

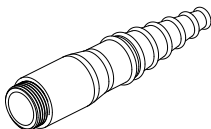
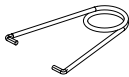
Mushroom pushbuttons

Ref.	Drawing	Description	Code
A1		Latched mushroom pushbutton for emergency stop	PRSL1880PI

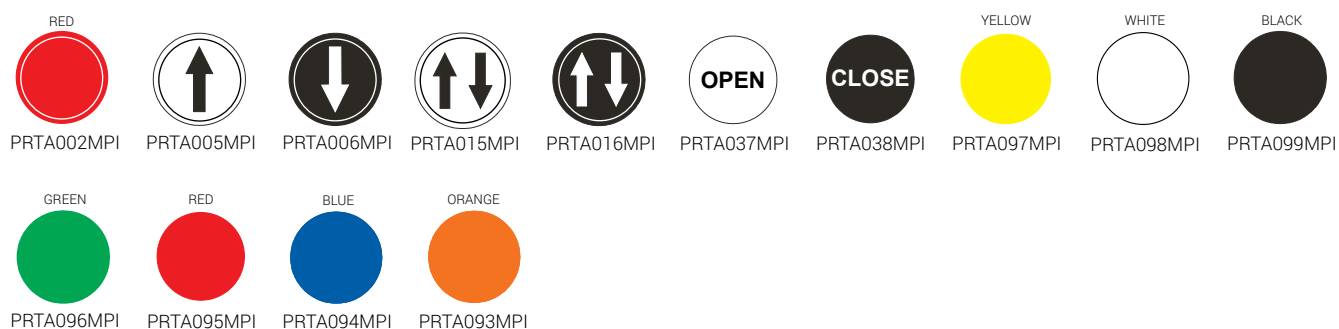
Accessories

Ref.	Drawing	Description	Code
A6		Cable cover with TER logo	PRSL1832PI
		Blank cable cover	PRSL1836PI
A7		Label sheet	Code on request
A8		Button-switch spacer	PRSL8512PI
A9		Mechanical interlock	PRSL1850PI
A12		Complete wire clamp	PRSL1896PI
A13		Cable gland M20 with reduction	PRSL1910PI

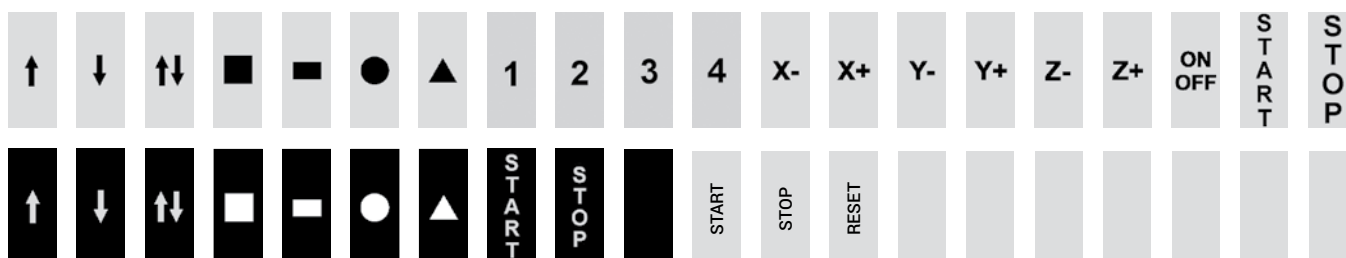
Accessories

Ref.	Drawing	Description	Code
A14		Cable sleeve	PRSL0145PE
A15		Hook	PRGA0012PE
A16		Closing clip (only for 2 speed version)	PRTR1035PE

Disks



Label sheet



SPA

Pendant control station



Pendant station for auxiliary control, sturdy and reliable, designed for heavy industry.
Modular enclosure with actuators arranged on a double row to pair opposite functions and keep size compact.

FEATURES

- Modular enclosure with actuators arranged on a double row to enable grouping of a large number of functions in a single unit.
- Rectangular pushbuttons in thermoplastic material featuring sticky customizable labels.
- The emergency stop mushroom pushbutton complies with standard ISO 13850.
- Mechanical life of switches: 1 million operations.
- IP protection degree: SPA 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 28 actuators, arranged on a double row.
- One or two speed switches with NO or NC contacts and with LEDs (voltage 24 Vac/dc) and lamp (voltage 110 Vac/dc).
- Double switches with mechanical interlock to prevent simultaneous operation of opposite functions.
- Wide range of actuators: pushbuttons, selector switches and key-selector switches, pilot lights, impulse or latched mushroom pushbuttons with rotation release.
- Available on request with a red backlit display, suitable for displaying measurements and information about the system where the control station is installed.

CERTIFICATIONS

- CE marking.

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

CERTIFICATIONS

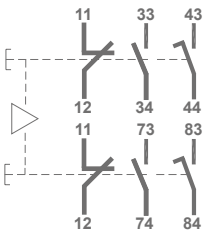
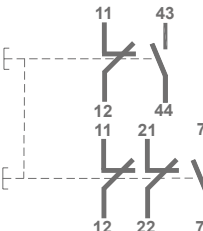
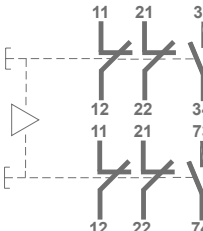
Conformity to Community Directives	2014/35/UE Low Voltage Directive
	2006/42/CE Machinery Directive
Conformity to CE Standards	EN 60204-1 Safety of machinery - Electrical equipment of machines
	EN 60947-1 Low-voltage switchgear and controlgear
	EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices
	EN 60529 Degrees of protection provided by enclosures
Markings and homologations	ISO 13850 Safety of machinery - Emergency stop - Principles for design
	CE

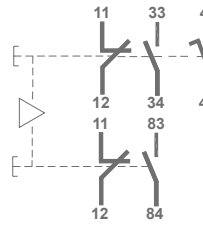
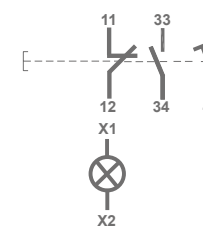
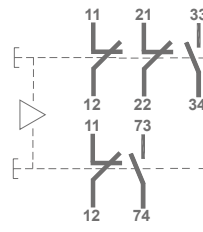
GENERAL TECHNICAL SPECIFICATIONS

Ambient temperature	Storage -40°C/+70°C
	Operational -25°C/+70°C
IP protection degree	IP 65
Insulation category	Class II
Cable entry	Rubber cable sleeve (Ø 14÷26 mm)
Operating positions	Any position

TECHNICAL SPECIFICATIONS OF THE SWITCHES

Code	PRSL0071XX	PRSL0072XX	PRSL0073XX	PRSL0074XX
Switch	Utilisation category	AC 15	-	AC 15
	Rated operational current	1.9 A	-	1.9 A
	Rated operational voltage	380 Vac	-	380 Vac
	Rated thermal current	10 A	-	10 A
	Rated insulation voltage	500 Vac	-	500 Vac
	Mechanical life	1x10 ⁶ operations	-	1x10 ⁶ operations
Lamp holder	Maximum voltage	125 V	125 V	125 V
	Maximum power	2.6 W	2.6 W	2.6 W
Lamp	Lamp type	bulb or LED (on request) with bayonet coupling	bulb or LED (on request) with bayonet coupling	bulb or LED (on request) with bayonet coupling
Connections	Screw-type terminals			
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)			
Tightening torque	0.8 Nm			
Switch type	1 speed switch + lamp holder	lamp holder + lamp holder	1 speed switch + lamp holder	1 speed switch + 1 speed switch
Contacts	2NC+2NO lamp holder	lamp holder lamp holder	1NC+1NO lamp holder	1NC+1NO 1NC+1NO
Scheme				
Markings and homologations	CE cUL US			

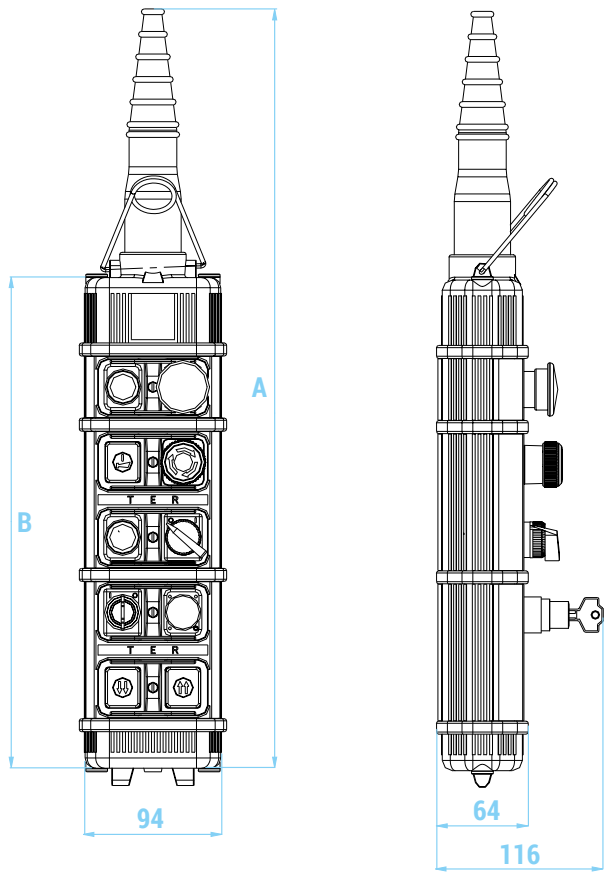
Code	PRSL0075XX	PRSL0076XX	PRSL0077XX
Utilisation category	AC 15	AC 15	AC 15
Rated operational current	1.9 A	1.9 A	1.9 A
Rated operational voltage	380 Vac	380 Vac	380 Vac
Rated thermal current	10 A	10 A	10 A
Rated insulation voltage	500 Vac	500 Vac	500 Vac
Mechanical life	1x10 ⁶ operations	1x10 ⁶ operations	1x10 ⁶ operations
Maximum voltage	-		
Maximum power	-		
Lamp type	-		
Connections	Screw-type terminals		
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)		
Tightening torque	0.8 Nm		
Switch type	2 speed switch + 2 speed switch	1 speed switch + 1 speed switch	1 speed switch + 1 speed switch
Contacts	1NC+1NO+1NO 1NC+1NO+1NO	1NC+1NO 2NC+2NO	2NC+2NO 2NC+2NO
Scheme			
Markings and homologations	CE cULus		

Code	PRSL0087XX	PRSL0089XX	PRSL0090XX
Utilisation category	AC 15	AC 15	AC 15
Rated operational current	1.9 A	1.9 A	1.9 A
Rated operational voltage	380 Vac	380 Vac	380 Vac
Rated thermal current	10 A	10 A	10 A
Rated insulation voltage	500 Vac	500 Vac	500 Vac
Mechanical life	1x10 ⁶ operations	1x10 ⁶ operations	1x10 ⁶ operations
Maximum voltage	-	125 V	-
Maximum power	-	2.6 W	-
Lamp type	-	bulb or LED (on request) with bayonet coupling	-
Connections	Screw-type terminals		
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)		
Tightening torque	0.8 Nm		
Switch type	2 speed switch + 1 speed switch	2 speed switch+ lamp holder	1 speed switch + 2 speed switch
Contacts	1NC+1NO+1NO 1NC+1NO	1NC+1NO+1NO lamp holder	2NC+2NO 1NC+1NO+1NO
Scheme			
Markings and homologations	CE cULus	CE	CE

TECHNICAL SPECIFICATIONS OF THE LEDS / BULBS

Code	PRSL3502PI	SL000010
Type	LED	Bulb with bayonet coupling
Rated operational voltage	24 V ac/dc	110 Vac/dc
Rated current consumption	20 mA	20 mA
Scheme		
Markings and homologations	CE	CE

OVERALL DIMENSIONS (mm)



No. of actuators	Dimensions (mm)		Weight (kg)
	A	B	
2	318	132	0,520
4	370	184	0,700
6	422	236	0,880
8	474	288	1,040
10	526	340	1,220
12	578	392	1,380
14	630	444	1,550
16	682	496	1,710
18	734	548	1,890
20	786	600	2,050
22	838	652	2,210
24	890	704	2,370
26	942	756	2,530
28	994	808	2,690

SPA-ADV



Advanced version of the SPA pendant control station, with integrated data acquisition system

It features a display suitable for monitoring (DC) current or voltage input signal for visualizing properties 'values converted in electric signals (i.e. pressure, temperature, level, load, etc.).

It features a display suitable for monitoring and displaying DC current or voltage input signals, used to represent values of physical properties converted into electrical signals (e.g. pressure, temperature, level, load, etc.).

It features minimum and maximum display capture, display offset, unit indicator, and programmable user input.

The display is red backlit, with 12.2 mm (0.48") high digits, and can toggle between the selected readouts.

It is specifically designed for use in industrial automation and process control applications, such as chemical, food processing, and packaging plants, as well as in control panels for real-time monitoring of parameters measured by sensors.

SPA-ADV - ELECTRICAL SPECIFICATIONS

Supply voltage	9...28 Vdc $\pm$ 10%
Max. current	115 mA @ 9 Vdc
Input analog range	20 mA or 50 mA
	10 V
ADC resolution	20000 div.
Measuring accuracy	$\pm$ 0.1% FS

STANDARD CONTROL STATIONS

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

2 actuators

PF02L020007				PF02L020039			
Switch scheme	Switches	Actuators		Switch scheme	Switches	Actuators	
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 		PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton

4 actuators

PF02L040185				PF02L040241			
Switch scheme	Switches	Actuators		Switch scheme	Switches	Actuators	
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Blanking plug	Latched mushroom pushbutton		PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 		PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton

PF02L040186				PF02L040240			
Switch scheme	Switches	Actuators		Switch scheme	Switches	Actuators	
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	-	Latched mushroom pushbutton		PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton 		PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton

PF02L040242				PF02L040063			
Switch scheme	Switches	Actuators		Switch scheme	Switches	Actuators	
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton 		PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 		PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton

PF02L040243

Switch scheme	Switches	Actuators	
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton	Pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton	Pushbutton

6 actuators

PF02L060455

Switch scheme	Switches	Actuators	
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Blanking plug	Latched mushroom pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton	Pushbutton

PF02L060401

Switch scheme	Switches	Actuators	
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Blanking plug	Latched mushroom pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton	Pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton	Pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton	Pushbutton

PF02L060456

Switch scheme	Switches	Actuators	
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Blanking plug	Latched mushroom pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton	Pushbutton

PF02L060439

Switch scheme	Switches	Actuators	
	PRSL0076XX 1NO+1NC/2NO+2NC 1 speed	Pushbutton GREEN	Latched mushroom pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton	Pushbutton

PF02L060355

Switch scheme	Switches	Actuators	
	PRSL0076XX 1NO+1NC/2NO+2NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton

PF02L060356

Switch scheme	Switches	Actuators	
	PRSL0076XX 1NO+1NC/2NO+2NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton

8 actuators

PF02L080237

Switch scheme	Switches	Actuators	
	PRSL0076XX 1NO+1NC/2NO+2NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton

PF02L080440

Switch scheme	Switches	Actuators	
	PRSL0076XX 1NO+1NC/2NO+2NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton

PF02L080702

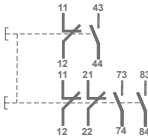
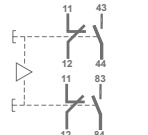
Switch scheme	Switches	Actuators	
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	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton
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PF02L080703

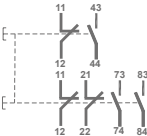
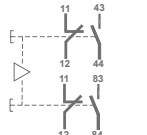
Switch scheme	Switches	Actuators	
	PRSL0076XX 1NO+1NC/2NO+2NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton
	PRSL0075XX 1NO+1NC/1NO+1NC 2 speeds	Pushbutton 	Pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton

10 actuators

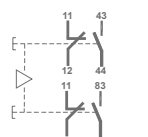
PF02L100324

Switch scheme	Switches	Actuators	
	PRSL0076XX 1NO+1NC/2NO+2NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 

PF02L100308

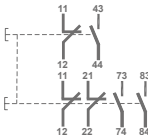
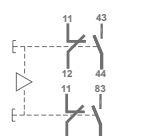
Switch scheme	Switches	Actuators	
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	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 

PF02L101187

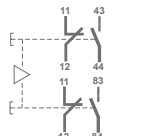
Switch scheme	Switches	Actuators	
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 

12 actuators

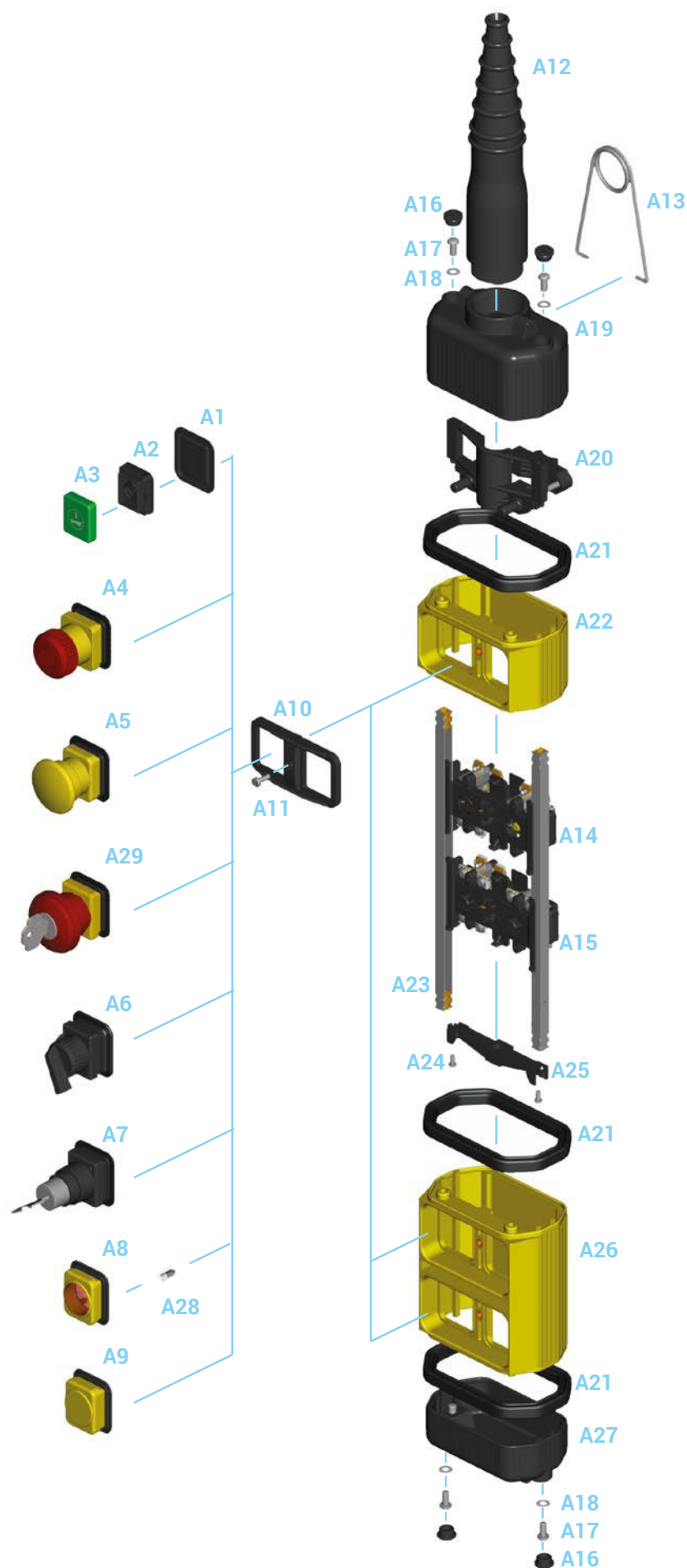
PF02L120306

Switch scheme	Switches	Actuators	
	PRSL0076XX 1NO+1NC/2NO+2NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO + 1NC / 1NO + 1NC 1 speed	Pushbutton 	Pushbutton 

PF02L121167

Switch scheme	Switches	Actuators	
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Latched mushroom pushbutton
	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 
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	PRSL0074XX 1NO+1NC/1NO+1NC 1 speed	Pushbutton 	Pushbutton 

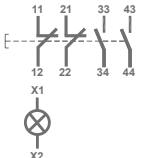
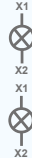
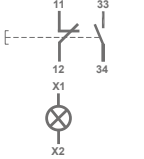
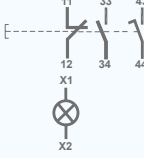
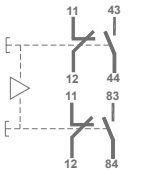
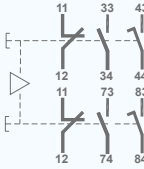
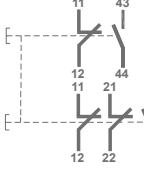
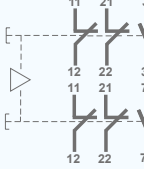
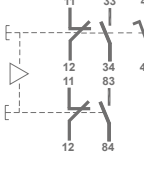
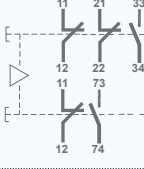
ASSEMBLY DRAWING



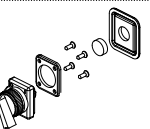
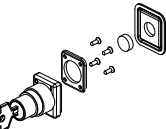
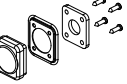
Refer to the following tables for descriptions of components: "Switches", "Actuators", "Pilot lights", "Mushroom pushbuttons" and "Accessories".

COMPONENTS

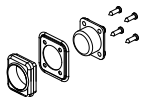
Switches

Ref.	Drawing	Description	Scheme	Code
A14		1 speed switch with 2NC+2NO contacts + lamp holder with bayonet coupling (without bulb)		PRSL0071XX
		2 lamp holders with bayonet coupling (without bulb)		PRSL0072XX
		1 speed switch with 1NC+1NO contacts + lamp holder with bayonet coupling (without bulb)		PRSL0073XX
		2 speed switch with 1NC+1NO+1NO contacts + lamp holder with bayonet coupling (without bulb)		PRSL0089XX
A15		1 speed switch with 1NC+1NO contacts + 1 speed switch with 1NC+1NO contacts		PRSL0074XX
		2 speed switch with 1NC+1NO+1NO contacts + 2 speed switch with 1NC+1NO+1NO contacts		PRSL0075XX
		1 speed switch with 1NC+1NO contacts + 1 speed switch with 2NC+2NO contacts		PRSL0076XX
		1 speed switch with 2NC+2NO contacts + 1 speed switch with 2NC+2NO contacts		PRSL0077XX
		2 speed switch with 1NC+1NO+1NO contacts + 1 speed switch with 1NC+1NO contacts + mechanical interlock		PRSL0087XX
		1 speed switch with 2NC+2NO contacts + 2 speed switch with 1NC+1NO+1NO contacts		PRSL0090XX

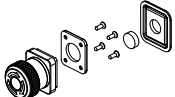
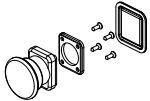
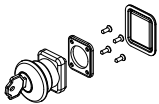
Actuators

Ref.	Drawing	Description	Code
A1		Rubber for button	PRGU6031PE
A2		Button holder	PRSL9284PI
A3		Button with label (Pushbuttons moulded in two colours to guarantee clear reading and wear resistance are available only on request.)	TL _____ See button tables
A6		Selector switch 0/1 maintained positions	PRSL3540PI
		Selector switch 0/1/1+2 maintained positions	PRSL3543PI
A7		Key selector switch 0/1 maintained positions, pull-out position 1	PRSL3539PI
A9		Blanking plug	PRSL5557PI

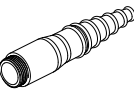
Pilot lights

Ref.	Drawing	Colour	Code
A8		Blue	PRSL3532PI
		Red	PRSL3534PI
		Green	PRSL3535PI
		Yellow	PRSL3542PI

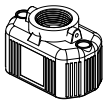
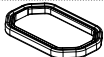
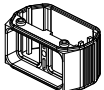
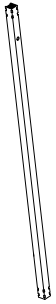
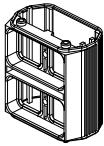
Mushroom pushbuttons

Ref.	Drawing	Description	Code
A4		Latched mushroom pushbutton for emergency stop	PRSL3500PI
A5		Impulse mushroom pushbutton	PRSL3531PI
A29		Key mushroom pushbutton (red)	SL000132

Accessories

Ref.	Drawing	Description	Code
A10		Frame with 2 holes	PRSL5535PI
		Frame with 1 hole	PRSL5537PI
		Frame without holes	PRSL5538PI
A11		Screw for frame	PRVI6027PE
A12		Cable sleeve	PRSL0145PE
A13		Hook	PRGA0012PE
A16		Plug for cover	PRSL8610PI

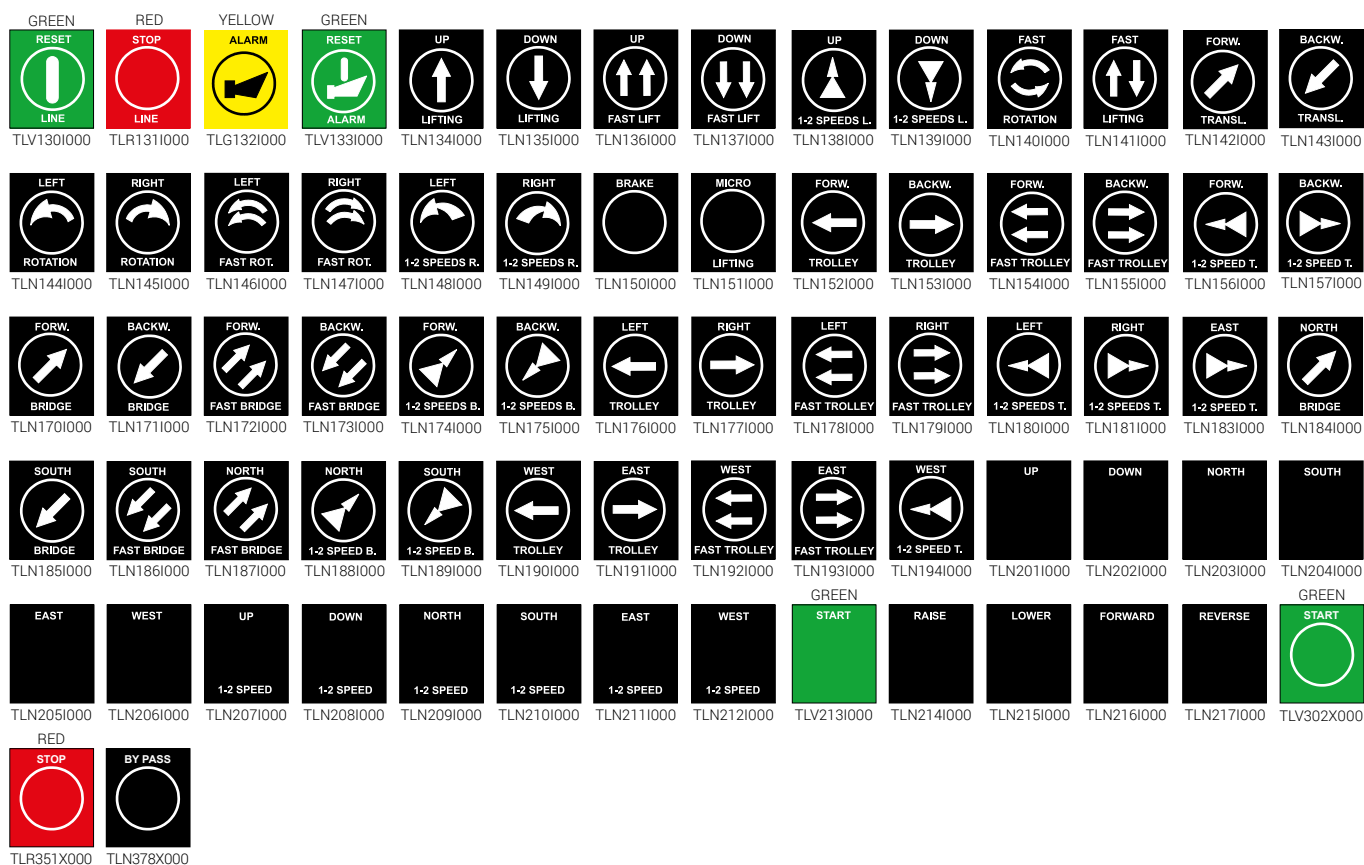
Accessories

Ref.	Drawing	Description	Code
A17		Locking screw for cover	PRVI1020PE
A18		Washer	PRRN1061PE
A19		Upper cover	PRSL5525PI
A20		Cable clamp with screws	PRSL3545PI
A21		Tightening rubber	PRGU6021PE
A22		Single section	PRSL5016AU
A23		Rod for SPA 2 buttons	PRTR0071PE
		Rod for SPA 4 buttons	PRTR0076PE
		Rod for SPA 6 buttons	PRTR0081PE
		Rod for SPA 8 buttons	PRTR0086PE
		Rod for SPA 10 buttons	PRTR0091PE
		Rod for SPA 12 buttons	PRTR0096PE
		Rod for SPA 14 buttons	PRTR0101PE
		Rod for SPA 16 buttons	PRTR0106PE
		Rod for SPA 18 buttons	PRTR0111PE
		Rod for SPA 20 buttons	PRTR0116PE
		Rod for SPA 22 buttons	PRTR0117PE
		Rod for SPA 24 buttons	PRTR0118PE
		Rod for SPA 26 buttons	PRTR0119PE
		Rod for SPA 28 buttons	PRTR0120PE
A24		Screw	PRVI0005PE
A25		Switch holder with screw	PRSL3558PI
A26		Double section	PRSL5017AU
A27		Lower cover	PRSL5530PI
A28		LED 24 Vac/dc	PRSL3502PI
		Bulb 110 Vac/dc with bayonet coupling	SL000010

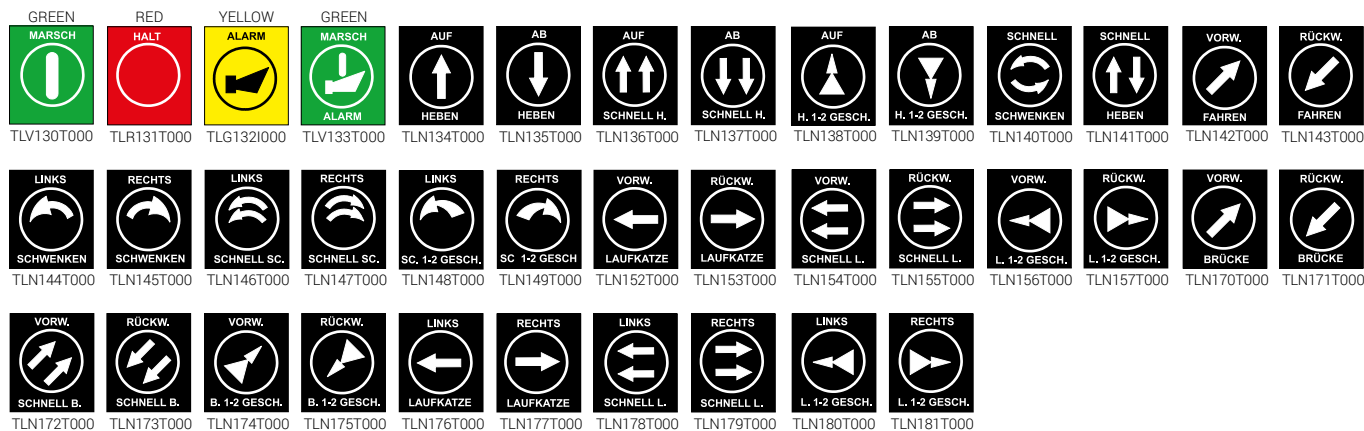
Standard buttons - Symbols

GREEN 	RED 	YELLOW 	GREEN 											
TLV101X000	TLR102X000	TLG103X000	TLV104X000	TLN105X000	TLB105X000	TLN106X000	TLB106X000	TLN107X000	TLB107X000	TLN108X000	TLB108X000	TLN109X000	TLB109X000	
														
TLN110X000	TLB110X000	TLN111X000	TLN112X000	TLB112X000	TLN113X000	TLN114X000	TLB114X000	TLN115X000	TLN116X000	TLB116X000	TLN117X000	TLB117X000	TLN118X000	
														
TLN119X000	TLB119X000	TLN120X000	TLN121X000	TLB121X000	TLN126X000	TLN127X000	TLN128X000	TLN129X000	TLN374X000	TLN375X000	TLB375X000	TLN376X000	TLN377X000	
RED 	BLACK 	YELLOW 	GREEN 	WHITE 										
TLR122X000	TLN199X000	TLG220X000	TLV221X000	TLB229X000										

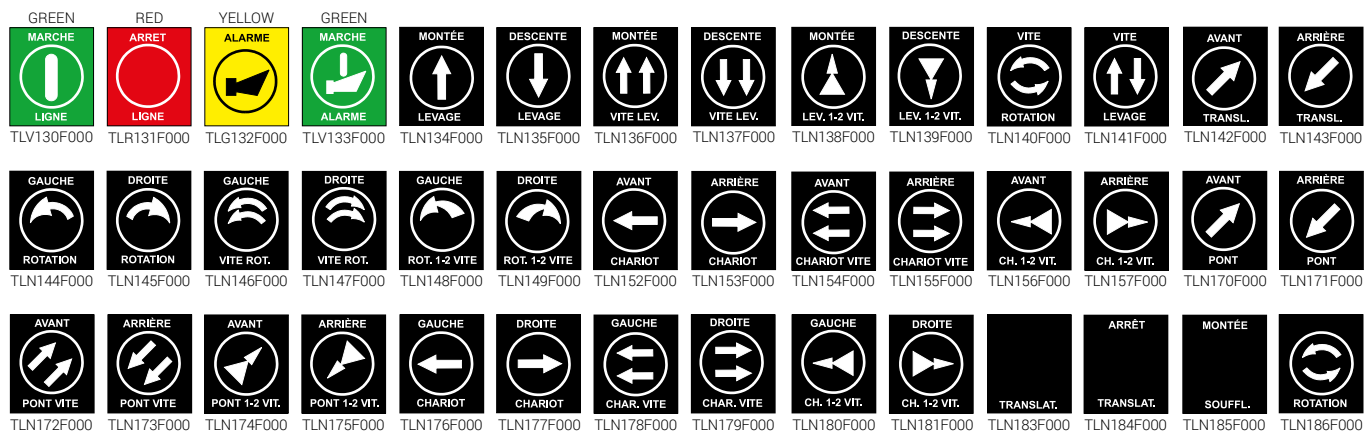
Standard buttons - English



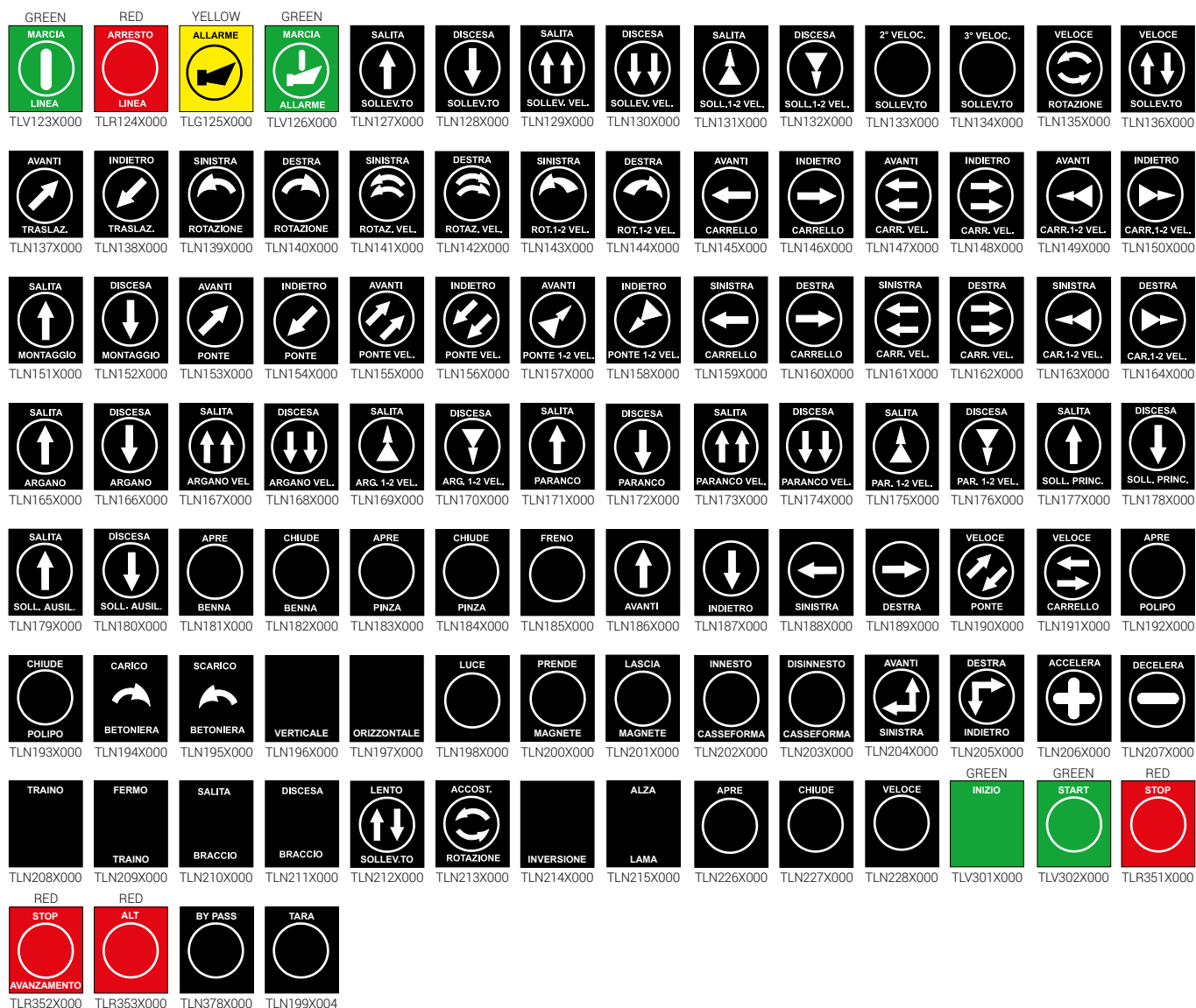
Standard buttons - German



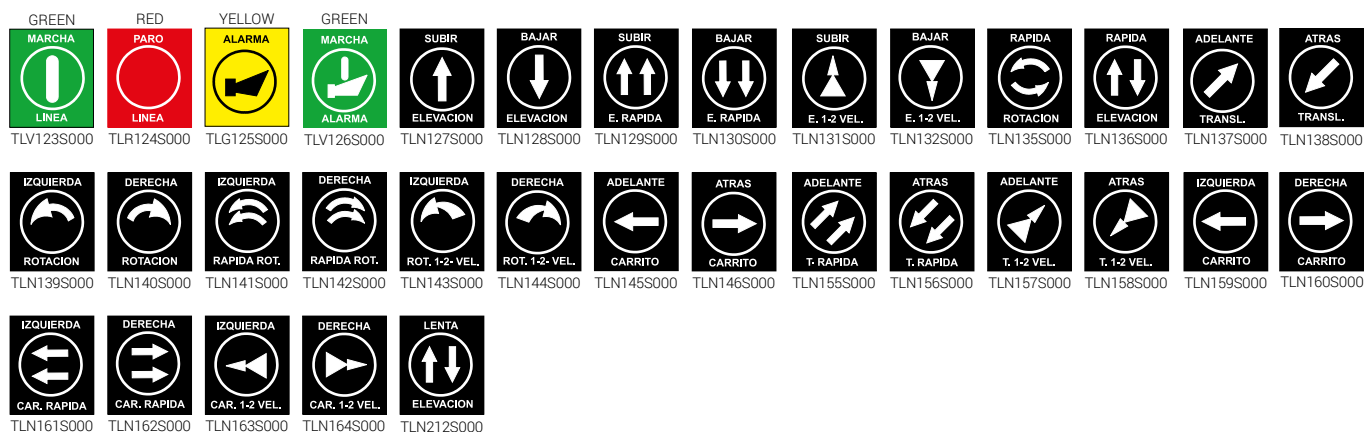
Standard buttons - French



Standard buttons - Italian



Standard buttons - Spanish



SPA - REQUEST FORM FOR NON STANDARD CONTROL STATION

Instructions

Fill in the chart to the left according to the number of control elements required (2, 4, 6, 8, 10, 12, 14, 16, 18 or 20 actuators).

- 1 Control elements:** in the broken-line box enter the number corresponding to the control element required ([1] to [11]) according to the legend.

- 2 Buttons:** when buttons are required, fill in the TL_____ code (see standard button tables).

If you choose **buttons with arrows**, enter the direction of the arrow into the corresponding box. Eg. 

- 3 Switches:** enter the number corresponding to the switch required ([20] to [29]) according to the legend.

ATTENTION: **lamp holders** can be fitted with bulbs or with LEDs (on request).

- 4 LED / bulb:** tick the box on the following page if you require LEDs or bulbs to be fitted into the lamp holders.

- 5 Mechanical interlock:** tick the boxes where you require the mechanical interlock (MI) between pushbuttons. Eg. 

- 6 Cable sleeve and hook:** tick the appropriate boxes to indicate where the cable sleeve and the hook must be assembled (top or bottom).

1 Control elements

[1]	PRSL3500PI	Emergency stop mushroom pushbutton
[2]	PRSL3531PI	Impulse mushroom pushbutton
[3]	SL000132	Key mushroom pushbutton (red)
[4]	PRSL3539PI	2 position key selector switch
[5]	PRSL3540PI	2 position selector switch
[6]	PRSL3543PI	3 position selector switch
[7]	PRSL3534PI	Red pilot light
[8]	PRSL3535PI	Green pilot light
[9]	PRSL3542PI	Yellow pilot light
[10]	PRSL3532PI	Blue pilot light
[11]	PRSL5557PI	Blanking plug

1

Control elements

2

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

TL_____

6

Hook

Cable sleeve

3 Switches

5



MI



MI



MI



MI



MI



MI



MI



MI



MI



MI



MI



MI



MI



MI

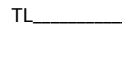
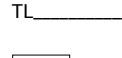
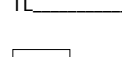


MI

Hook

Cable sleeve

Control elements



3 Switches

Ref.	Code	Switch type	Contacts
☐ 20	PRSL0071XX	1 speed switch + lamp holder	2NC+2NO / Lamp holder
☐ 21	PRSL0072XX	Lamp holder + lamp holder	Lamp holder / Lamp holder
☐ 22	PRSL0073XX	1 speed switch + lamp holder	1NC+1NO / Lamp holder
☐ 23	PRSL0074XX	1 speed switch + 1 speed switch	1NC+1NO / 1NC+1NO
☐ 24	PRSL0075XX	2 speed switch + 2 speed switch	1NC+1NO+1NO / 1NC+1NO+1NO
☐ 25	PRSL0076XX	1 speed switch + 1 speed switch	1NC+1NO / 2NC+2NO
☐ 26	PRSL0077XX	1 speed switch + 1 speed switch	2NC+2NO / 2NC+2NO
☐ 27	PRSL0087XX	2 speed switch + 1 speed switch	1NC+1NO+1NO / 1NC+1NO
☐ 28	PRSL0089XX	2 speed switch + lamp holder	1NC+1NO+1NO / Lamp holder
☐ 29	PRSL0090XX	1 speed switch + 2 speed switch	2NC+2NO / 1NC+1NO+1NO

4 LED / Bulb

☐ LED 24 V ac/dc ☐ Bulb 110 Vac/dc

Remarks

CHARLIE

Pendant control station



Compact-sized pendant station for auxiliary control. Modern user-friendly design, developed by an industrial design firm on technical, anthropomorphic, futuristic and ergonomic specifications. Charlie is easy to handle and designed to reduce installation time and costs and maintenance down time.

FEATURES

- Reduced installation and wiring time and costs: the switches are assembled inside the pendant station without screws, with all the terminals facing the cable inlet and screws on the opposite side to facilitate wiring.
- A threaded ring is used to secure the enclosure and cover, providing easy access to the internal components without any need for tools or screws.
- Thanks to the hollow handle, the control station can be quickly and easily set down onto a pin.
- The emergency stop mushroom pushbutton complies with standard ISO 13850.
- Mechanical life of switches: 1 million operations.
- IP protection degree: Charlie 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 or 3 actuators.
- Single switches with NO or NC contacts and double switches with NO contacts, one or two speeds, with electrical interlock to prevent simultaneous operation of opposite functions.

CERTIFICATIONS

- CE marking.

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

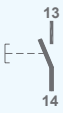
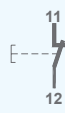
CERTIFICATIONS

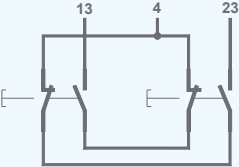
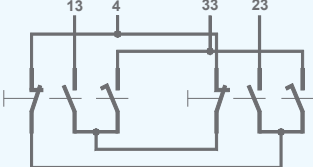
Conformity to Community Directives	2014/35/UE Low Voltage Directive
	2006/42/CE Machinery Directive
Conformity to CE Standards	EN 60204-1 Safety of machinery - Electrical equipment of machines
	EN 60947-1 Low-voltage switchgear and controlgear
	EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices
	EN 60529 Degrees of protection provided by enclosures
Markings and homologations	ISO 13850 Safety of machinery - Emergency stop - Principles for design
	CE

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	Cable gland M20
	Spiral cable gland M20
Operating positions	Any position
Weight	~ 320 g

TECHNICAL SPECIFICATIONS OF THE SWITCHES

Code	PRSL1000PI	PRSL1001PI
Utilisation category	AC 15	
Rated operational current	3 A	
Rated operational voltage	250 Vac	
Rated thermal current	10 A	
Rated insulation voltage	500 Vac	
Mechanical life	1x10 ⁶ operations	
Connections	Screw-type terminals	
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)	
Tightening torque	0.6 Nm	
Switch type	Double break, slow action	Double break, slow action
Contacts	1NO	1NC
Scheme		
Markings and homologations	CE cULus	

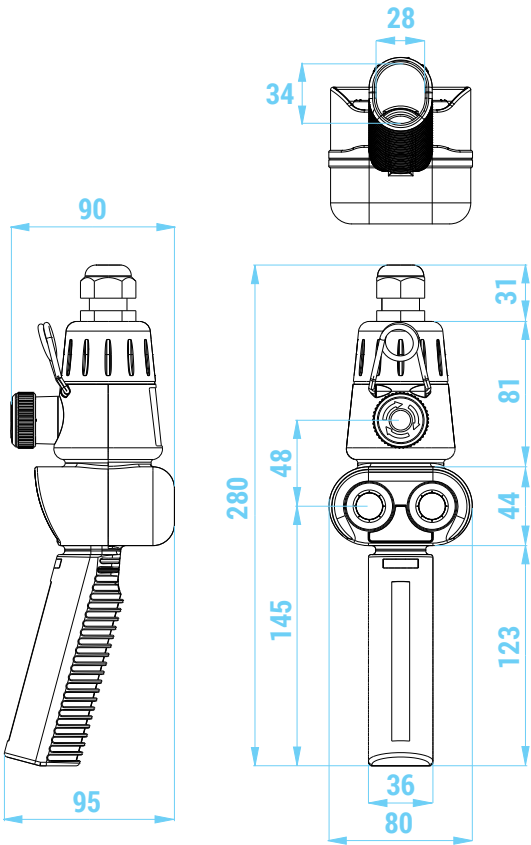
Code	PRSL1002PI	PRSL1003PI
Utilisation category	AC 15	
Rated operational current	3 A	
Rated operational voltage	250 Vac	
Rated thermal current	10 A	
Rated insulation voltage	500 Vac	
Mechanical life	1x10 ⁶ operations	
Connections	Screw-type terminals	
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)	
Tightening torque	0.6 Nm	
Switch type	Double switch, 1 speed	Double switch, 2 speeds
Contacts	2NO+common	3NO+common
Scheme		
Markings and homologations	CE 	

TECHNICAL SPECIFICATIONS OF THE LAMP HOLDERS

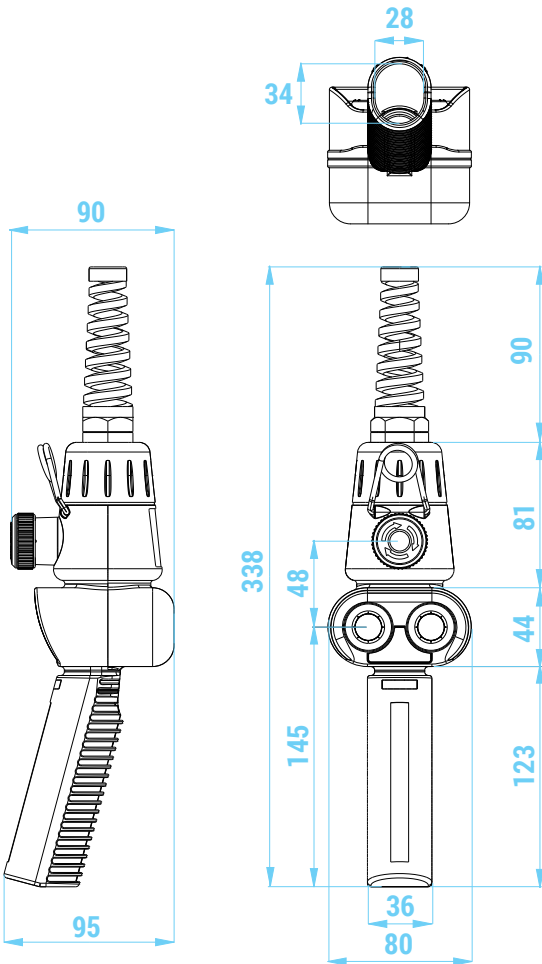
Code	PRSL1004PI
Maximum voltage	125 V
Maximum power	2.6 W
Lamp type (without bulb)	T5.5K 22 mm
Connections	Screw-type terminals
Wires	1x2.5 mm ² , 2x1.5 mm ²
Tightening torque	0.6 Nm
Markings and homologations	CE

OVERALL DIMENSIONS (mm)

With cable gland M20



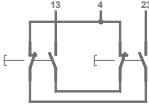
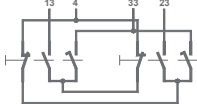
With spiral cable gland M20



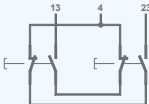
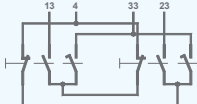
STANDARD CONTROL STATIONS

Standard control stations are equipped with cable gland M20, hook and electrical interlock between opposite function pushbuttons.

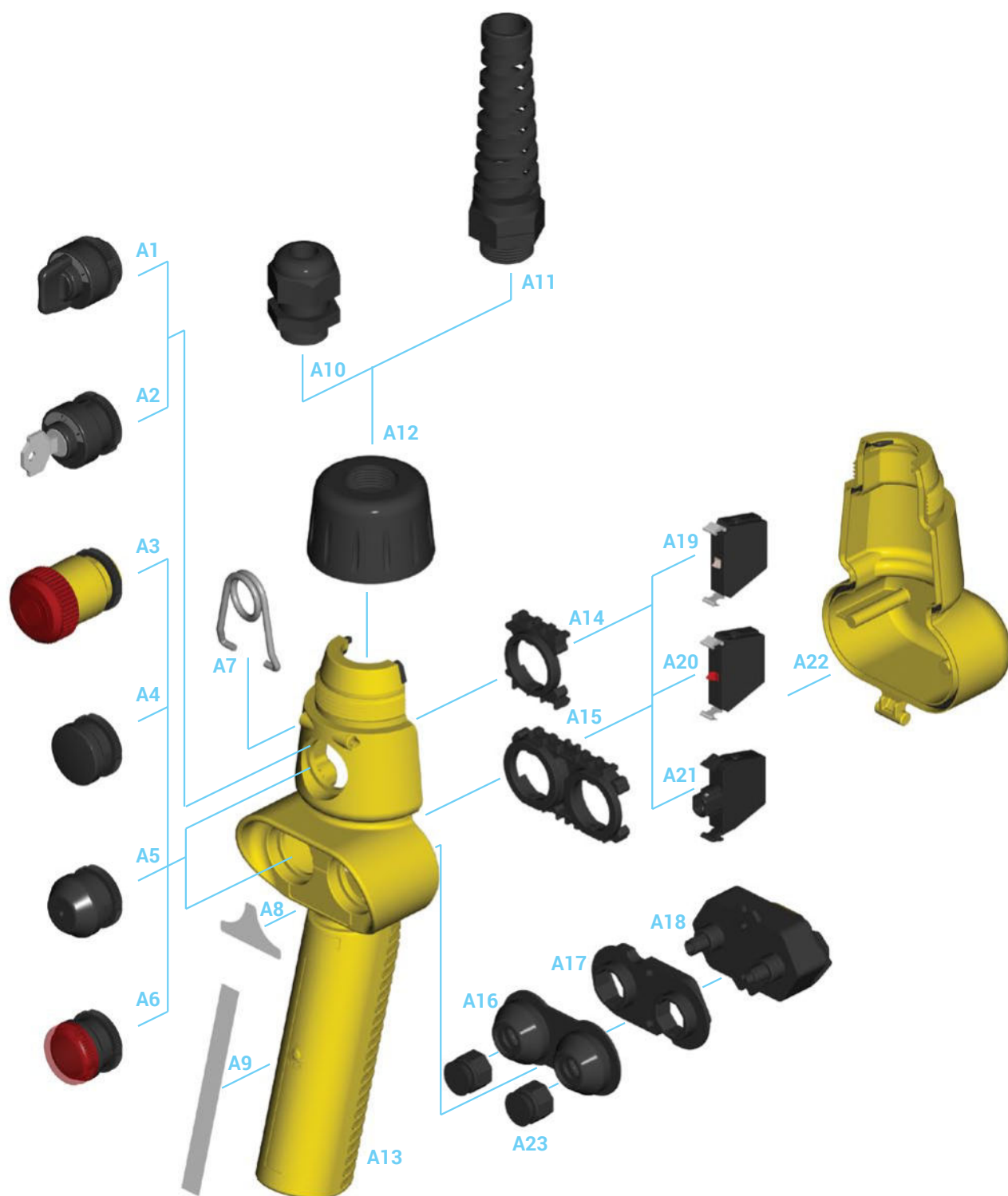
2 actuators

PF39020001			PF39020002		
Switch scheme	Switches	Actuators	Switch scheme	Switches	Actuators
	PRSL1002PI 2NO+common 1 speed	Pushbutton Pushbutton 		PRSL1003PI 3NO+common 2 speeds	Pushbutton Pushbutton 

3 actuators

PF39030001			PF39030002		
Switch scheme	Switches	Actuators	Switch scheme	Switches	Actuators
	PRSL1001PI 1NC	Latched mushroom pushbutton		PRSL1001PI 1NC	Latched mushroom pushbutton
	PRSL1002PI 2NO+common 1 speed	Pushbutton Pushbutton 		PRSL1003PI 3NO+common 2 speeds	Pushbutton Pushbutton 

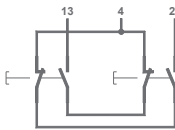
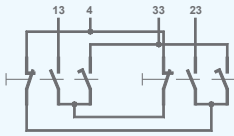
ASSEMBLY DRAWING



Refer to the following tables for descriptions of components: "Switches", "Actuators", "Pilot lights", "Mushroom pushbuttons", "Selector switches" and "Accessories".

COMPONENTS

Switches

Ref.	Drawing	Description	Scheme	Code
A18		Double switch, 1 speed, 2NO + common		PRSL1002PI
		Double switch, 2 speeds, 3NO + common		PRSL1003PI
A19		1NO switch		PRSL1000PI
A20		1NC switch		PRSL1001PI
A21		Lamp holder (without bulb)	-	PRSL1004PI

Actuators

Ref.	Drawing	Description	Code
A4		Blanking plug	PRSL1023PI
A5		Single pushbutton	PRTS000001
A16		Rubber for double pushbutton	PRGO0020PE
A16+A23		Double pushbutton with rubber	PRTD000001
A17		Holding plate for double pushbutton	PRSL8737PI

Pilot lights

Ref.	Drawing	Colour	Code
A6		Red	PRSL1012PI
		Yellow	PRSL1013PI
		Green	PRSL1014PI

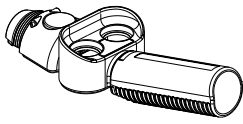
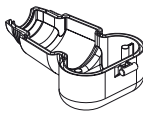
Mushroom pushbuttons

Ref.	Drawing	Description	Code
A3		Latched mushroom pushbutton for emergency stop	PRSL1009PI

Selector switches

Ref.	Drawing	Positions	Spring return	Maintained positions	ull-out position	Code
A1		0/1	X			PRSL1015PI
		0/1		X		PRSL1016PI
		1/0/2	X			PRSL1026PI
		1/0/2		X		PRSL1027PI
A2		0/1		X	0	PRSL1017PI
		0/1	X		0	PRSL1024PI

Accessories

Ref.	Drawing	Description	Code
A7		Hook	PRGA0015PE
A8		Label	ET39030001
		Label	ET39030021
		Label	ET39030014
		Label	ET39030069
		Label	ET39030015
		Label	ET39030007
A9		Blank label for handle	PRET0127PE
A10		Cable gland M20	PRPS0064PE
A11		Spiral cable gland M20	PRPS0025PE
A12		Closing ring for cable gland and spiral cable gland	PRSL5524PI
A13		Cover	PRSL5008PI
A14		Holding plate for 3 switches	PRSL8739PI
A15		Holding plate for 2+2 switches	PRSL8735PI
A22		Enclosure with gasket	SL000098

5 The label on the handle of the control station can be customized on request: please write the text requested under Remarks or e-mail the logo.

1 ○

3 □ □ □

Single

2



Single



Double



Single

- ① PRTS000001 Single pushbutton
- ② PRTS000001 Single pushbutton
- ③ PRTS000001 Single pushbutton
- ④ PRSL1009PI Emergency stop mushroom pushbutton
- ⑤ PRSL1012PI Red pilot light
- ⑥ PRSL1013PI Yellow pilot light
- ⑦ PRSL1014PI Green pilot light
- ⑧ PRSL1015PI Selector switch 0/1 spring return
- ⑨ PRSL1016PI Selector switch 0/1 maintained positions
- ⑩ PRSL1026PI Selector switch 1/0/2 spring return
- ⑪ PRSL1027PI Selector switch 1/0/2 maintained positions
- ⑫ PRSL1017PI Key selector switch 0/1 maintained positions
- ⑬ PRSL1024PI Key selector switch 0/1 spring return

D	PRSL1002PI	1 speed
E	PRSL1003PI	2 speeds

20 GREEN 25 30 35

21 GREEN 26 31 36

22 YELLOW 27 32 37

23 RED 28 33 38 BLACK

24 29 34

5 Remarks

ALPHA

Pendant control station



Pendant control station for auxiliary control with an innovative and modern design, where all graphic elements refer to specific technical functions. Size and shape of Alpha guarantee easy handling as a result of a thorough analysis of the ergonomic features combined with the research of a graphic style suitable for a modern industrial environment.

FEATURES

- Reduced installation and wiring time and costs: the switches feature terminals facing the cable clamp of the control station and screws on the opposite side to facilitate wiring.
- The control station has an angle of inclination giving the operator the best view of all control elements and enabling a natural, comfortable working position.
- The emergency stop mushroom pushbutton complies with standard ISO 13850.
- Mechanical life of switches: 1 million operations.
- IP protection degree: Alpha 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 13 actuators arranged on a double row.
- Single or double switches with NO or NC contacts featuring one or two speeds.
- Wide range of actuators: pushbuttons, selector switches and key-selector switches in different configurations, pilot lights, latched mushrooms pushbuttons with rotation or key-operated release.
- Available with label (symbols and lettering) to be applied next to the actuators.

CERTIFICATIONS

- CE marking.

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

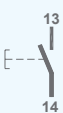
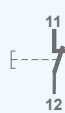
CERTIFICATIONS

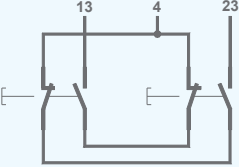
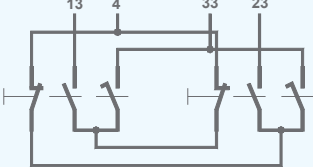
Conformity to Community Directives	2014/35/UE Low Voltage Directive
	2006/42/CE Machinery Directive
Conformity to CE Standards	EN 60204-1 Safety of machinery - Electrical equipment of machines
	EN 60947-1 Low-voltage switchgear and controlgear
	EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices
	EN 60529 Degrees of protection provided by enclosures
Markings and homologations	ISO 13850 Safety of machinery - Emergency stop - Principles for design
	CE

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	Rubber cable sleeve (Ø 14÷26 mm)
Operating positions	Any position

TECHNICAL SPECIFICATIONS OF THE SWITCHES

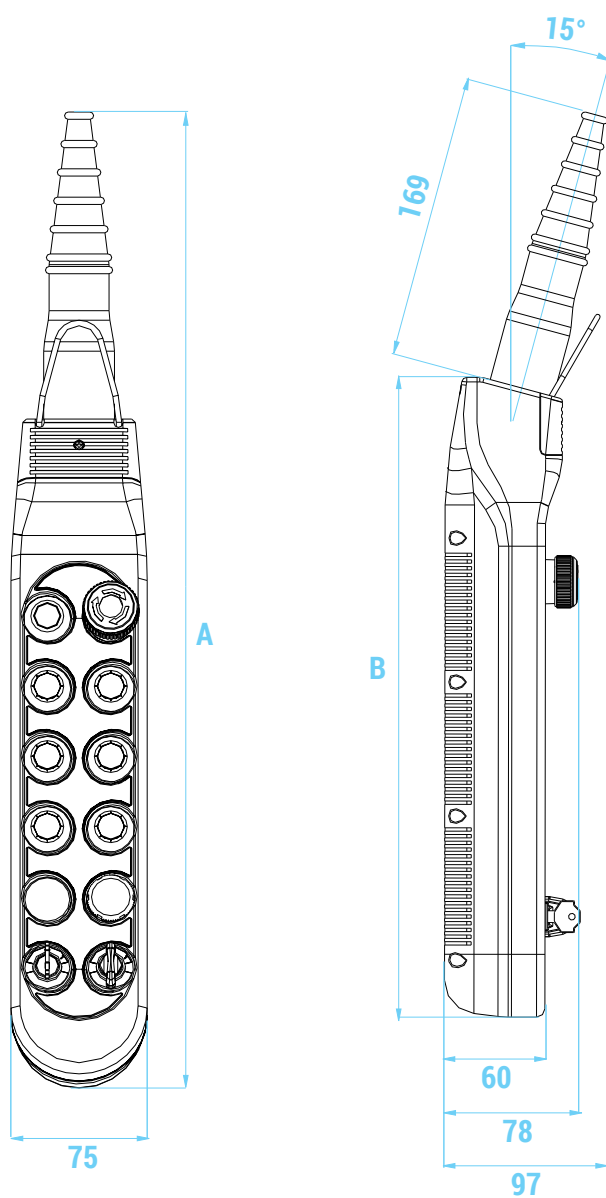
Code	PRSL1000PI	PRSL1001PI
Utilisation category	AC 15	
Rated operational current	3 A	
Rated operational voltage	250 Vac	
Rated thermal current	10 A	
Rated insulation voltage	500 Vac	
Mechanical life	1x10 ⁶ operations	
Connections	Screw-type terminals	
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)	
Tightening torque	0.6 Nm	
Switch type	Double break, slow action	Double break, slow action
Contacts	1NO	1NC
Scheme		
Markings and homologations	CE cULus	

Code	PRSL1002PI	PRSL1003PI
Utilisation category	AC 15	
Rated operational current	3 A	
Rated operational voltage	250 Vac	
Rated thermal current	10 A	
Rated insulation voltage	500 Vac	
Mechanical life	1x10 ⁶ operations	
Connections	Screw-type terminals	
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)	
Tightening torque	0.6 Nm	
Switch type	Double switch, 1 speed	Double switch, 2 speeds
Contacts	2NO+common	3NO+common
Scheme		
Markings and homologations	CE 	

TECHNICAL SPECIFICATIONS OF THE LAMP HOLDERS

Code	PRSL1004PI
Maximum voltage	125 V
Maximum power	2.6 W
Lamp type (not supplied)	T5.5K 22 mm
Connections	Screw-type terminals
Wires	1x2.5 mm ² , 2x1.5 mm ²
Tightening torque	0.6 Nm
Markings and homologations	CE

OVERALL DIMENSIONS (mm)



No. of actuators	Dimensions (mm)	
	A	B
2 - 3 - 4 - 5	382	222
6 - 7 - 8 - 9	462	302
10 - 11 - 12 - 13	542	382

STANDARD CONTROL STATIONS

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

2 actuators

PF38020005			
Switch scheme	Switches	Actuators	
	N.1 PRSL1002PI 2NO+common 1 speed	Pushbutton 	Pushbutton
-	-	Blanking plug	Blanking plug

PF38020002			
Switch scheme	Switches	Actuators	
	N.1 PRSL1003PI 3NO+comune 2 speeds	Pushbutton 	Pushbutton
-	-	Blanking plug	Blanking plug

3 actuators

PF38030001			
Switch scheme	Switches	Actuators	
	N.1 PRSL1001PI 1NC	Latched mushroom pushbutton	
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton
-	-	Blanking plug	Blanking plug

PF38030002			
Switch scheme	Switches	Actuators	
	N.1 PRSL1001PI 1NC	Latched mushroom pushbutton	
	N.1 PRSL1003PI 3NO+common 2 speeds	Pushbutton 	Pushbutton
-	-	Blanking plug	Blanking plug

4 actuators

PF38040002			
Switch scheme	Switches	Actuators	
	N.1 PRSL1000PI 1NO	Pushbutton 	Latched mushroom pushbutton
	N.1 PRSL1001PI 1NC	Latched mushroom pushbutton	
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton

PF38040003			
Switch scheme	Switches	Actuators	
	N.1 PRSL1000PI 1NO	Pushbutton 	Latched mushroom pushbutton
	N.1 PRSL1001PI 1NC	Latched mushroom pushbutton	
	N.1 PRSL1003PI 3NO+common 2 speeds	Pushbutton 	Pushbutton

PF38040004			
Switch scheme	Switches	Actuators	
	N.1 PRSL1002PI 2NO+common 1 speed	Pushbutton 	Pushbutton
	N.1 PRSL1002PI 2NO+common 1 speed	Pushbutton 	Pushbutton

PF38040006			
Switch scheme	Switches	Actuators	
	N.1 PRSL1003PI 3NO+common 2 speeds	Pushbutton 	Pushbutton
	N.1 PRSL1002PI 2NO+common 1 speed	Pushbutton 	Pushbutton

PF38040012

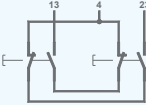
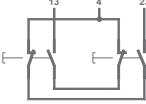
Switch scheme	Switches		Actuators	
	N.2 PRSL1000PI 1NO	N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton
	PRSL1003PI 3NO+common 2 speeds		Pushbutton 	Pushbutton

PF38040016

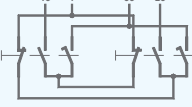
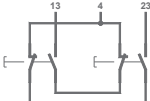
Switch scheme	Switches		Actuators	
	N.2 PRSL1000PI 1NO	N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton

5 actuators

PF38050003

Switch scheme	Switches	Actuators	
	N.1 PRSL1001PI 1NC	Latched mushroom pushbutton	
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO+common 1 speed	Pushbutton 	Pushbutton 

PF38050004

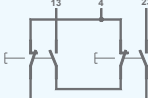
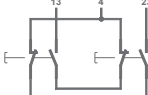
Switch scheme	Switches	Actuators	
	N.1 PRSL1001PI 1NC	Latched mushroom pushbutton	
	N.1 PRSL1003PI 3NO+common 2 speeds	Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO+common 1 speed	Pushbutton 	Pushbutton 

PF38050005

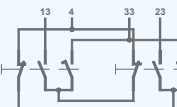
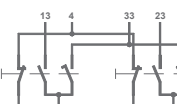
Switch scheme	Switches	Actuators	
	N.1 PRSL1001PI 1NC	Latched mushroom pushbutton	
	N.1 PRSL1003PI 3NO+common 2 speeds	Pushbutton 	Pushbutton
	N.1 PRSL1003PI 3NO+common 2 speeds	Pushbutton 	Pushbutton

6 actuators

PF38060001

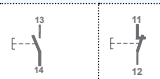
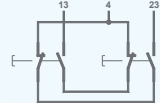
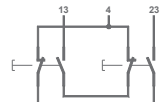
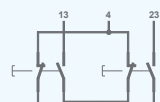
Switch scheme	Switches		Actuators	
	N.2 PRSL1000PI 1NO	N.1 PRSL1001PI 1NC	Pushbutton  GREEN	Latched mushroom pushbutton
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO+common 1 speed		Pushbutton 	Pushbutton 
-	-		Blanking plug	Blanking plug

PF38060002

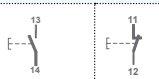
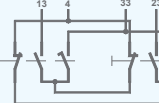
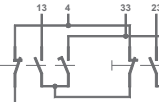
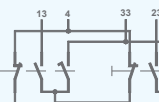
Switch scheme	Switches	Actuators		
	N.2 PRSL1000PI 1NO	N.1 PRSL1001PI 1NC	Pushbutton  GREEN	Latched mushroom pushbutton
	N.1 PRSL1003PI 3NO+common 2 speeds		Pushbutton 	Pushbutton 
	N.1 PRSL1003PI 3NO+common 2 speeds		Pushbutton 	Pushbutton 
-	-		Blanking plug	Blanking plug

8 actuators

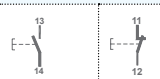
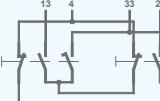
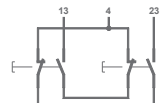
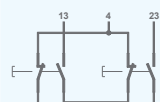
PF38080001

Switch scheme	Switches	Actuators	
	N.2 PRSL1000PI 1NO N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 

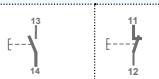
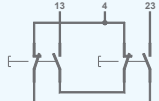
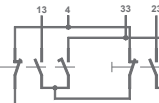
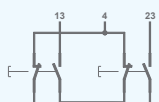
PF38080002

Switch scheme	Switches	Actuators	
	N.2 PRSL1000PI 1NO N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 
	N.1 PRSL1003PI 3NO + common 2 speeds	Pushbutton 	Pushbutton 
	N.1 PRSL1003PI 3NO + common 2 speeds	Pushbutton 	Pushbutton 
	N.1 PRSL1003PI 3NO + common 2 speeds	Pushbutton 	Pushbutton 

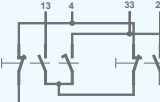
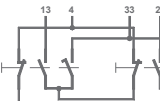
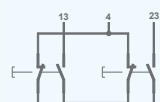
PF38080006

Switch scheme	Switches	Actuators	
	N.2 PRSL1000PI 1NO N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 
	N.1 PRSL1003PI 3NO + common 2 speeds	Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 

PF38080007

Switch scheme	Switches	Actuators	
	N.2 PRSL1000PI 1NO N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 
	N.1 PRSL1003PI 3NO + common 2 speeds	Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 

PF38080008

Switch scheme	Switches	Actuators	
	N.2 PRSL1000PI 1NO N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 
	N.1 PRSL1003PI 3NO + common 2 speeds	Pushbutton 	Pushbutton 
	N.1 PRSL1003PI 3NO + common 2 speeds	Pushbutton 	Pushbutton 
	N.1 PRSL1002PI 2NO + common 1 speed	Pushbutton 	Pushbutton 

10 actuators

PF38100001					
Switch scheme	Switches		Actuators		
	N.2 PRSL1000PI 1NO	N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
-	-		Blanking plug	Blanking plug	

12 actuators

PF38120001					
Switch scheme	Switches		Actuators		
	N.2 PRSL1000PI 1NO	N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	

STANDARD PENDANT CONTROL STATIONS WITH CABLE OUTPUT ON THE BOTTOM

These pendant control stations are upside down, i.e. the cable output is on the bottom.

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

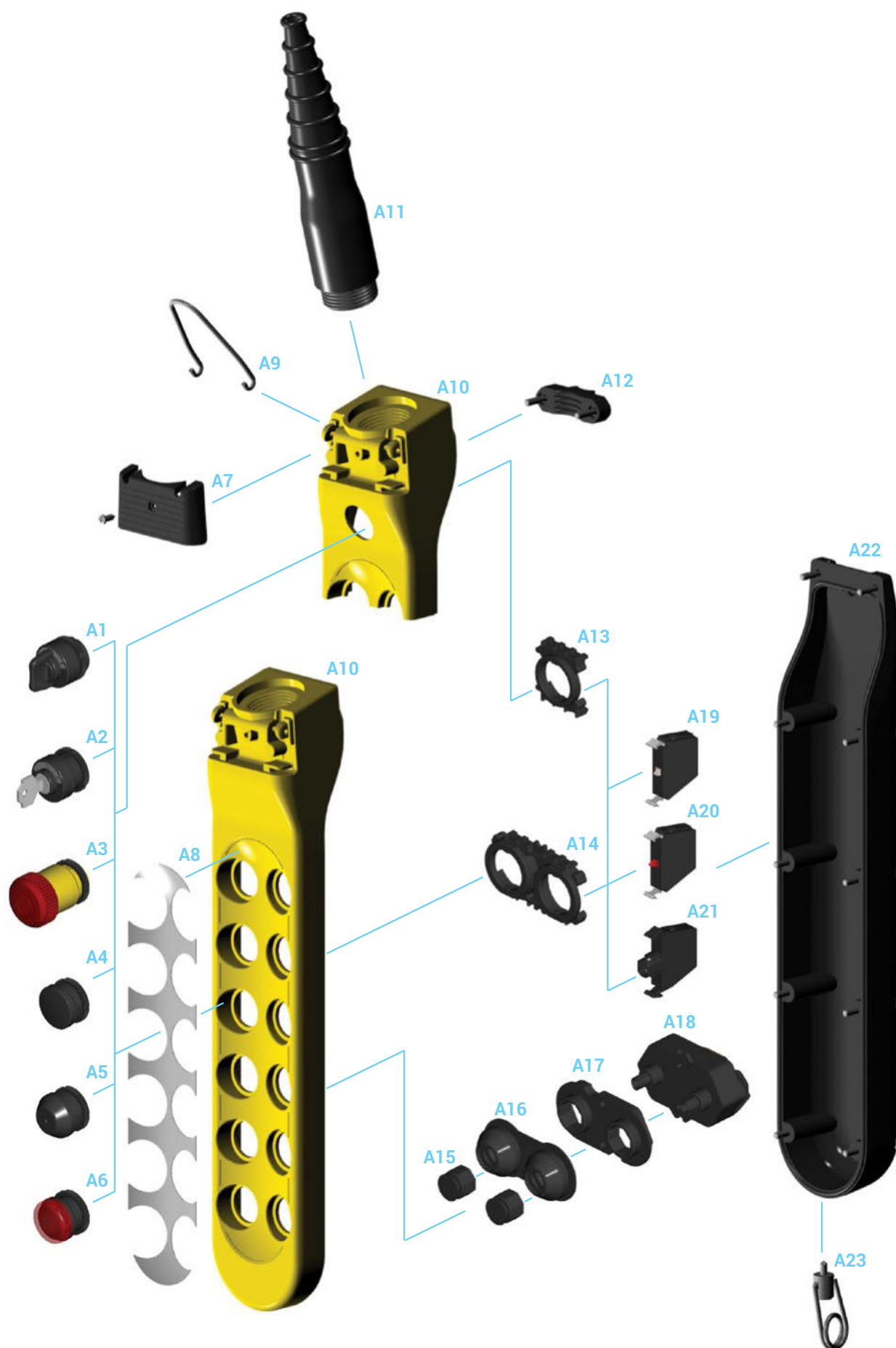
10 actuators

PF38100002					
Switch scheme	Switches		Actuators		
	N.1 PRSL1000PI 1NO	N.1 PRSL1000PI 1NO	Pushbutton 	Pushbutton 	
	N.1 PRSL1000PI 1NO	N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
-	-		Blanking plug	Blanking plug	

12 actuators

PF38120002					
Switch scheme	Switches		Actuators		
	N.1 PRSL1000PI 1NO	N.1 PRSL1000PI 1NO	Pushbutton 	Pushbutton 	
	N.1 PRSL1000PI 1NO	N.1 PRSL1001PI 1NC	Pushbutton 	Latched mushroom pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	
	N.1 PRSL1002PI 2NO + common 1 speed		Pushbutton 	Pushbutton 	

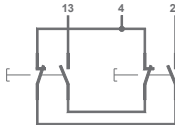
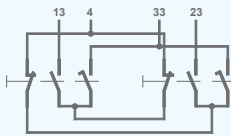
ASSEMBLY DRAWING



Refer to the following tables for descriptions of components: "Switches", "Actuators", "Pilot lights", "Mushroom pushbuttons", "Selector switches" and "Accessories".

COMPONENTS

Switches

Ref.	Drawing	Description	Scheme	Code
A18		Double switch, 1 speed, 2NO + common		PRSL1002PI
		Double switch, 2 speeds, 3NO + common		PRSL1003PI
A19		1NO switch		PRSL1000PI
A20		1NC switch		PRSL1001PI
A21		Lamp holder (without bulb)	-	PRSL1004PI

Actuators

Ref.	Drawing	Description	Code
A4		Blanking plug	PRSL1023PI
A5		Single pushbutton	PRTS000001
A15+A16		Double pushbutton with rubber	PRTD000001
A16		Rubber for double pushbutton	PRGO0020PE
A17		Holding plate for double pushbutton	PRSL8737PI

Pilot lights

Ref.	Drawing	Colour	Code
A6		Red	PRSL1012PI
		Yellow	PRSL1013PI
		Green	PRSL1014PI

Mushroom pushbuttons

Ref.	Drawing	Description	Code
A3		Latched mushroom pushbutton for emergency stop	PRSL1009PI

Toggle selector switches

Ref.	Drawing	Positions	Position on control station *			Code
			A	B	C	
A1		0-1 Spring return		x	x	PRSL1040PI
		0-1 Spring return	x			PRSL1041PI
		0-1 Maintained positions		x	x	PRSL1029PI
		0-1 Maintained positions	x			PRSL1030PI
		1-0-2 Spring return		x		PRSL1026PI
		1-0-2 Spring return	x			PRSL1042PI
		1-0-2 Maintained positions		x		PRSL1027PI
		1-0-2 Maintained positions	x			PRSL1031PI
		1-0-2 Maintained positions - Symbols I-I + II-II		x		PRSL1063PI
		1-0-2 Pos. 1 manteined - Pos. 2 spring return		x		PRSL1038PI
		1-2 Maintained positions		x		PRSL1034PI

Key selector switches

Ref.	Drawing	Positions	Position on control station *			Code
			A	B	C	
A2		0-1 Spring return		x	x	PRSL1024PI
		0-1 Spring return	x			PRSL1049PI
		0-1 Maintained positions		x	x	PRSL1046PI
		0-1 Maintained positions	x			PRSL1047PI
		1-0-2 Spring return		x		PRSL1059PI
		1-0-2 Spring return	x			PRSL1043PI
		1-0-2 Maintained positions		x		PRSL1048PI
		1-0-2 Maintained positions	x			PRSL1050PI
		1-0-2 Spring return Simultaneous activation of 2 switches		x		PRSL1057PI

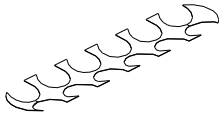
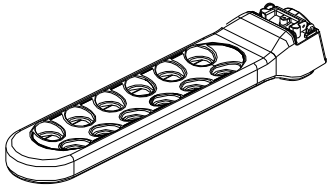
* Position on control station:

A = central position, with vertical holding plate for 3 switches.

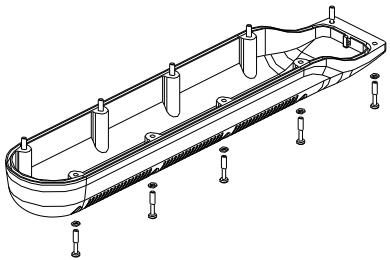
B = first and last double rows, with holding plate for 3+3 switches.

C = central double rows, with holding plate for 2+2 switches.

Accessories

Ref.	Drawing	Description	Code
A7		Cable cover	PRSL5603PI
A8		Label	ET38xxxxxx Codes on request
A9		Hook	PRGA0020PE
A10		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

Accessories

Ref.	Drawing	Description	Code
A11		Cable sleeve	PRSL0145PE
A12		Cable clamp	PRSL1020PI
A13		Holding plate for 3 switches	PRSL8739PI
A14		Holding plate for 2+2 switches	PRSL8735PI
A22		Enclosure 2/3/4/5 actuators with gasket	SL000111R
		Enclosure 6/7/8/9 actuators with gasket	PRSL5067PI
		Enclosure 10/11/12/13 actuators with gasket	PRSL5068PI
A23		Lower hook	PRGA0051PE

ALPHA - REQUEST FORM FOR NON STANDARD CONTROL STATION

Instructions

(See next page for list of components and legends).

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

- 1 Control elements:** enter the number corresponding to the control element required in the circle ((1) to (27)) according to the legend.

ATTENTION: selector switches can be mounted only in specific positions, as specified in the switch activation schemes (see legend).

- 2 Label symbols:** in the broken-line box enter the number corresponding to the symbol required on the label ((50) to (68)) according to the legend.

Next to the number mark the direction of the arrow and the customized lettering, if requested.

- 3 Switches:** in the unbroken boxes enter the letters corresponding to the single or double switches required ([A] to [E]) according to the legend.

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

	Hook Cable sleeve	
1	 Single switches	
2	 Double switch 3+3 single switches	
	 Double switch 2+2 single switches	
	 Double switch 2+2 single switches	
	 Double switch 2+2 single switches	
	 Double switch 2+2 single switches	
	 Double switch 2+2 single switches	
	 Double switch 3+3 single switches	
	Hook Cable sleeve	

1 Legend - Control elements

* SWITCH ACTIVATION

It is possible to mount up to 2 switches for each selector switch, but no switch in the central position (NA). You can mount the selector switch in the central position when the scheme shows a vertical holding plate for 3 switches, in the first and last double row when there is a holding plate for 3+3 switches, or in the double central rows when there is a holding plate for 2+2 switches. The scheme also shows which position of the selector operates on each switch.

Pushbuttons

- ① PRTD000001 Double pushbutton
- ② PRTS000001 Single pushbutton

Blanking plugs and mushroom pushbuttons

- ③ PRSL1023PI Blanking plug
- ④ PRSL1009PI Emergency stop mushroom pushbutton

Toggle selector switches

⑧	PRSL1040PI 0-1 spring return	<table><tr><td>1</td><td>NA</td><td>1</td><td>1</td><td>NA</td><td>1</td></tr><tr><td>NA</td><td>1</td><td>1</td><td>NA</td><td></td><td></td></tr></table>	1	NA	1	1	NA	1	NA	1	1	NA								
1	NA	1	1	NA	1															
NA	1	1	NA																	
⑨	PRSL1041PI 0-1 spring return	<table><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>NA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	1						NA						1					
1																				
NA																				
1																				
⑩	PRSL1029PI 0-1 maintained positions	<table><tr><td>1</td><td>NA</td><td>1</td><td>1</td><td>NA</td><td>1</td></tr><tr><td>NA</td><td>1</td><td>1</td><td>NA</td><td></td><td></td></tr></table>	1	NA	1	1	NA	1	NA	1	1	NA								
1	NA	1	1	NA	1															
NA	1	1	NA																	
⑪	PRSL1030PI 0-1 maintained positions	<table><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>NA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	1						NA						1					
1																				
NA																				
1																				
⑫	PRSL1026PI 1-0-2 spring return	<table><tr><td>1</td><td>NA</td><td>2</td><td>1</td><td>NA</td><td>2</td></tr></table>	1	NA	2	1	NA	2												
1	NA	2	1	NA	2															
⑬	PRSL1042PI 1-0-2 spring return	<table><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>NA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	2						NA						1					
2																				
NA																				
1																				
⑭	PRSL1027PI 1-0-2 maintained positions	<table><tr><td>1</td><td>NA</td><td>2</td><td>1</td><td>NA</td><td>2</td></tr></table>	1	NA	2	1	NA	2												
1	NA	2	1	NA	2															
⑮	PRSL1031PI 1-0-2 maintained positions	<table><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>NA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	2						NA						1					
2																				
NA																				
1																				
⑯	PRSL1063PI 1-0-2 maintained positions symbols I-I + II-II	<table><tr><td>1</td><td>NA</td><td>2</td><td>1</td><td>NA</td><td>2</td></tr></table>	1	NA	2	1	NA	2												
1	NA	2	1	NA	2															
⑰	PRSL1038PI 1-0-2 position 1 mantained position 2 spring return	<table><tr><td>1</td><td>NA</td><td>2</td><td>1</td><td>NA</td><td>2</td></tr></table>	1	NA	2	1	NA	2												
1	NA	2	1	NA	2															
⑱	PRSL1034PI 1-2 maintained positions	<table><tr><td>1</td><td>NA</td><td>2</td><td>1</td><td>NA</td><td>2</td></tr></table>	1	NA	2	1	NA	2												
1	NA	2	1	NA	2															

Pilot lights

- ⑤ PRSL1012PI Red pilot light
- ⑥ PRSL1013PI Yellow pilot light
- ⑦ PRSL1014PI Green pilot light

Key selector switches

19	PRSL1024PI 0-1 spring return	<table><tr><td>1</td><td>NA</td><td>1</td><td>1</td><td>NA</td><td>1</td></tr><tr><td>NA</td><td>1</td><td>1</td><td>NA</td><td></td><td></td></tr></table>	1	NA	1	1	NA	1	NA	1	1	NA								
1	NA	1	1	NA	1															
NA	1	1	NA																	
20	PRSL1049PI 0-1 spring return	<table><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>NA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	1						NA						1					
1																				
NA																				
1																				
21	PRSL1046PI 0-1 maintained positions	<table><tr><td>1</td><td>NA</td><td>1</td><td>1</td><td>NA</td><td>1</td></tr><tr><td>NA</td><td>1</td><td>1</td><td>NA</td><td></td><td></td></tr></table>	1	NA	1	1	NA	1	NA	1	1	NA								
1	NA	1	1	NA	1															
NA	1	1	NA																	
22	PRSL1047PI 0-1 maintained positions	<table><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>NA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	1						NA						1					
1																				
NA																				
1																				
23	PRSL1059PI 1-0-2 spring return	<table><tr><td>1</td><td>NA</td><td>2</td><td>1</td><td>NA</td><td>2</td></tr></table>	1	NA	2	1	NA	2												
1	NA	2	1	NA	2															
24	PRSL1043PI 1-0-2 spring return	<table><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>NA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	2						NA						1					
2																				
NA																				
1																				
25	PRSL1048PI 1-0-2 maintained positions	<table><tr><td>1</td><td>NA</td><td>2</td><td>1</td><td>NA</td><td>2</td></tr></table>	1	NA	2	1	NA	2												
1	NA	2	1	NA	2															
26	PRSL1050PI 1-0-2 maintained positions	<table><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>NA</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr></table>	2						NA						1					
2																				
NA																				
1																				
27	PRSL1057PI 1-0-2 spring return simultaneous activation of 2 switches	<table><tr><td>1-2</td><td>NA</td><td>1-2</td><td>1-2</td><td>NA</td><td>1-2</td></tr></table>	1-2	NA	1-2	1-2	NA	1-2												
1-2	NA	1-2	1-2	NA	1-2															

2 Legend - Label symbols

50	GREEN	55	56	60	65
51	GREEN	56	61	66	
52	YELLOW	57	62	67	
53	RED	58	63	68	BLACK
54		59	64		

3 Legend - Switches

Single switches

- A PRSL1000PI 1NO
- B PRSL1001PI 1NC
- C PRSL1004PI Lamp holder (without bulb)

Double switches

- D PRSL1002PI 1 speed
- E PRSL1003PI 2 speeds

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
Markings and homologations	ISO 13850 Safety of machinery - Emergency stop - Principles for design
	CE

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

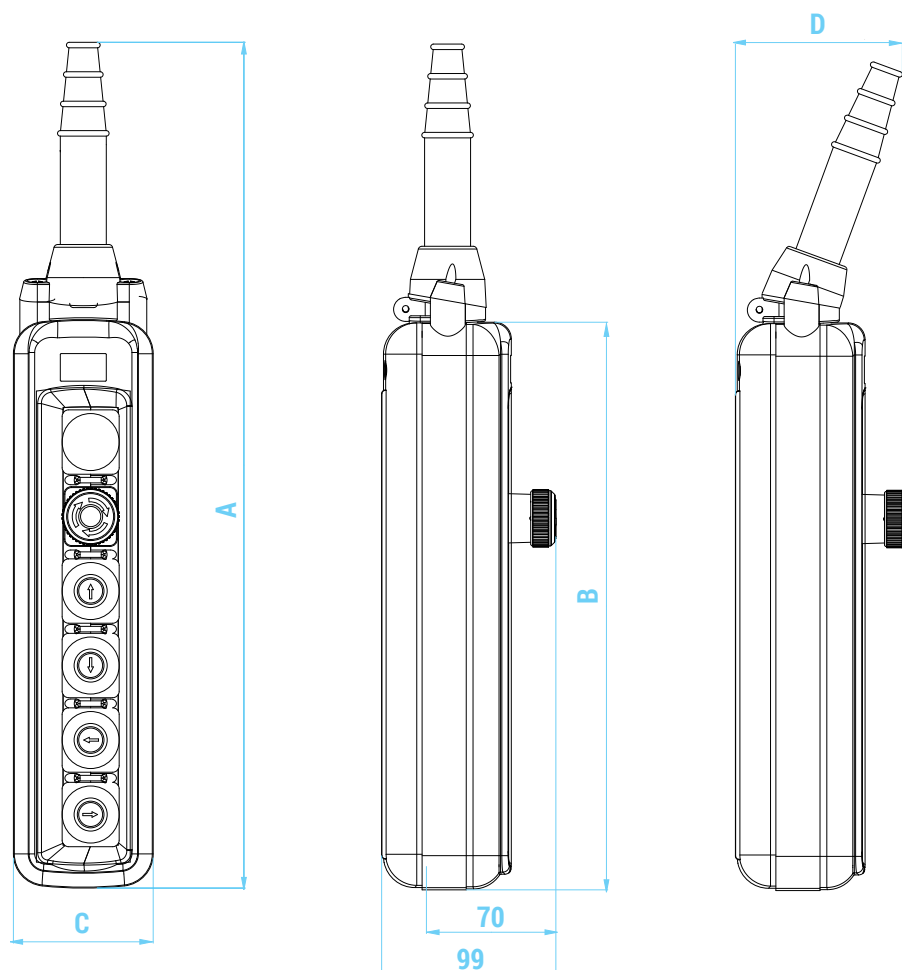
TECHNICAL SPECIFICATIONS OF THE SWITCHES

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 mm ² , 2x1.5 mm ²		
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	CE		

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 mm ² , 2x1.5 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 mm ² , 2x1.5 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
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
	PRSL0471PI 1 speed three-pole	Pushbutton ⬆ Pushbutton ⬇

PF30030003		
Switch scheme	Switches	Actuators
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
	PRSL0460PI 2 speeds two-pole	Pushbutton ⬆ Pushbutton ⬇

PF30030004		
Switch scheme	Switches	Actuators
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
	PRSL0458PI 1 speed two-pole	Pushbutton ⬆ Pushbutton ⬇

6 actuators

PF30060002		
Switch scheme	Switches	Actuators
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
	PRSL0460PI 2 speeds two-pole	Pushbutton ⬆ Pushbutton ⬇
	PRSL0460PI 2 speeds two-pole	Pushbutton ⬆ Pushbutton ⬇

PF30060004		
Switch scheme	Switches	Actuators
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
	PRSL0471PI 1 speed three-pole	Pushbutton ⬆ Pushbutton ⬇
	PRSL0471PI 1 speed three-pole	Pushbutton ⬆ Pushbutton ⬇

PF30060019

Switch scheme	Switches	Actuators
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
	PRSL0458PI 1 speed two-pole	Pushbutton
		Pushbutton
	PRSL0458PI 1 speed two-pole	Pushbutton
		Pushbutton

8 actuators

PF30080001

Switch scheme	Switches	Actuators
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
	PRSL0460PI 2 speeds two-pole	Pushbutton
		Pushbutton
	PRSL0460PI 2 speeds two-pole	Pushbutton
		Pushbutton
	PRSL0460PI 2 speeds two-pole	Pushbutton
		Pushbutton

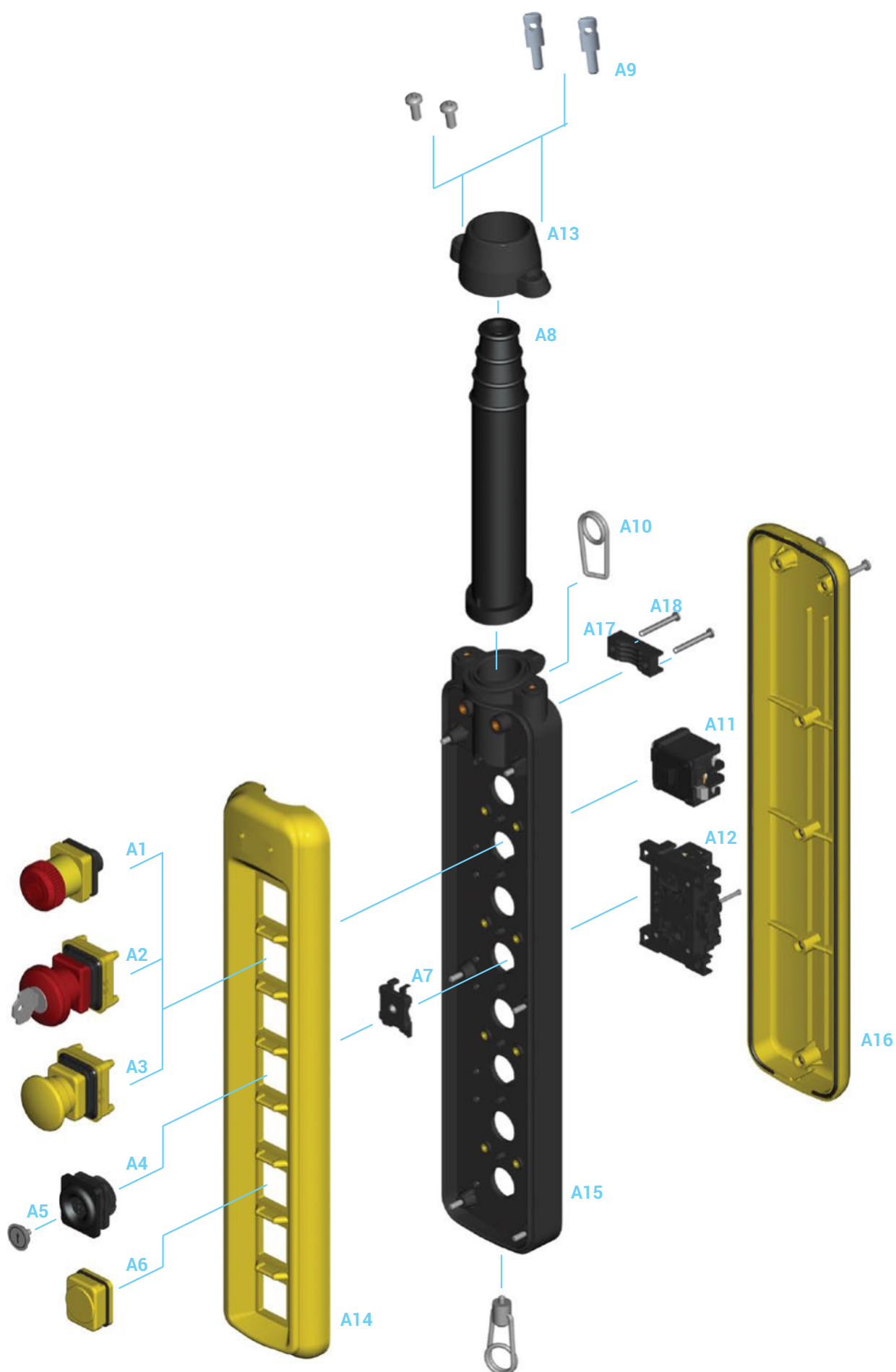
PF30080010

Switch scheme	Switches	Actuators
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
	PRSL0471PI 1 speed three-pole	Pushbutton
		Pushbutton
	PRSL0471PI 1 speed three-pole	Pushbutton
		Pushbutton
	PRSL0471PI 1 speed three-pole	Pushbutton
		Pushbutton

PF30080022

Switch scheme	Switches	Actuators
	PRSL0508PI 1 speed 3NC	Latched mushroom pushbutton
-	-	Blanking plug
	PRSL0458PI 1 speed two-pole	Pushbutton
	PRSL0458PI 1 speed two-pole	Pushbutton
	PRSL0458PI 1 speed two-pole	Pushbutton
	PRSL0458PI 1 speed two-pole	Pushbutton
	PRSL0458PI 1 speed two-pole	Pushbutton
	PRSL0458PI 1 speed two-pole	Pushbutton

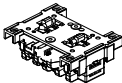
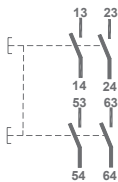
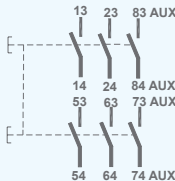
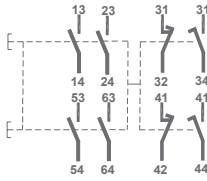
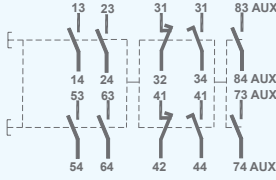
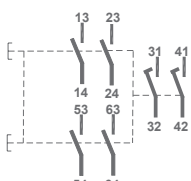
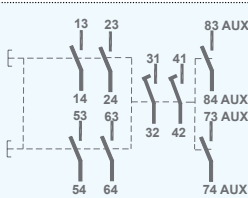
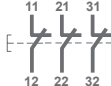
ASSEMBLY DRAWING



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

COMPONENTS

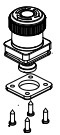
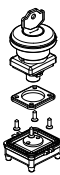
Switches

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
A11		1 speed, three-pole double switch with brake contact / auxiliary contact		PRSL0472PI
		1 speed, 3NC single switch, for mushroom pushbutton		PRSL0508PI

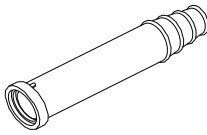
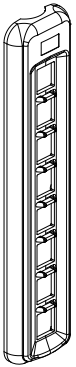
Actuators

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

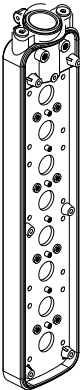
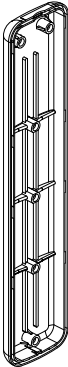
Mushroom pushbuttons

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	PRT06626PE
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

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									
									
PRTA019XPI	PRTA022XPI	PRTA023XPI	PRTA026XPI	PRTA027XPI	PRTA097XPI	PRTA098XPI	PRTA099XPI		
WHITE									
BLACK									

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.

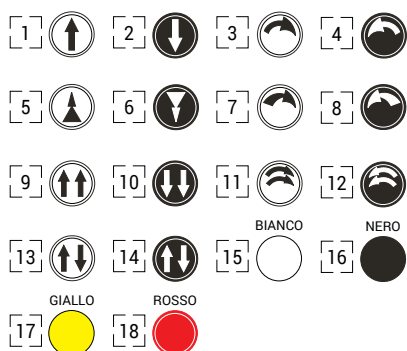
- 2 Switches:** in the unbroken boxes enter the letters corresponding to the switches required ([A] to [F]).

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. ☒

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

1 Control elements



[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

3 actuators

4 ☐ Hook ☐ Wire fixing

☐ Cable sleeve

Control elements 1 ☐

2 Switch ☐

MI 3 ☐

Hook ☐

Cable sleeve ☐

2-4-6-8 actuators

4 ☐ Hook ☐ Wire fixing

☐ Cable sleeve

Control elements 1 ☐

2 Switches ☐

MI 3 ☐

MI ☐

MI ☐

MI ☐

MI ☐

MI ☐

MI ☐

Hook ☐

Cable sleeve ☐

NPA

Pendant control station



Pendant station for auxiliary control of industrial machines.

Sturdy and handy, NPA is a classic control station, available with plastic pushbuttons or with dust-tight rubber pushbuttons, with switches up to three speeds.

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.
- - Rectangular pushbuttons in thermoplastic material featuring sticky customizable labels or rubber pushbuttons with symbol disks to ensure protection against dust.
- Two-colour moulded 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 is classified IP65.
- 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 12 actuators.
- One, two or three speed switches with NO and/or NC contacts.
- Mechanical interlock to prevent simultaneous operation of opposite functions.

CERTIFICATIONS

- CE marking and UKCA marking.

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

CERTIFICATIONS

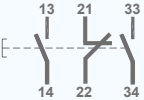
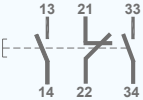
Conformity to Community Directives	2014/35/UE Low Voltage Directive
	2006/42/CE Machinery Directive
Conformity to UKCA Directives	Supply of Machinery (Safety) Regulations 2008
	Electrical Equipment (Safety) Regulations 2016
Conformity to CE Standards	EN 60204-1 Safety of machinery - Electrical equipment 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
Markings and homologations	ISO 13850 Safety of machinery - Emergency stop - Principles for design
	CE UKCA

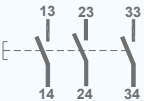
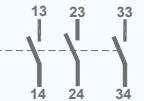
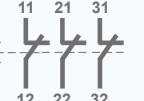
GENERAL TECHNICAL SPECIFICATIONS

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÷12 buttons: rubber cable sleeve (Ø 17÷26 mm)
Operating positions	Any position

TECHNICAL SPECIFICATIONS OF THE SWITCHES

Code	PRSL0502PI	PRSL0503PI	PRSL0510PI
Utilisation category	AC 15		
Rated operational current	1.9 A		
Rated operational voltage	380 Vac		
Rated thermal current	10 A		
Rated insulation voltage	500 Vac		
Mechanical life	1x10 ⁶ operations		
Connections	Screw-type terminals		
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)		
Tightening torque	0.8 Nm		
Switch type	Double break, slow action	Double break, slow action	Double break, slow action for mushroom pushbutton
Contacts	1NC	1NO	1NO
Scheme			
Markings and homologations	CE cULus UKCA		

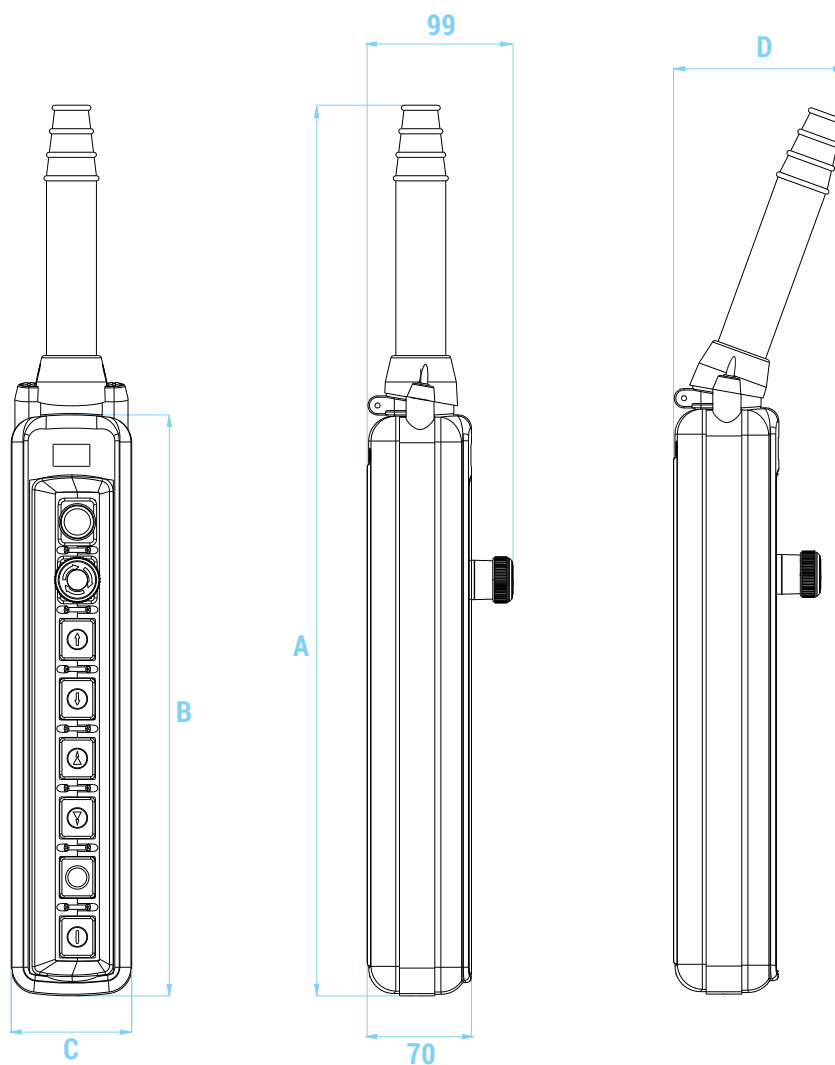
Code	PRSL0504PI	PRSL0505PI
Utilisation category	AC 15	
Rated operational current	1.9 A	
Rated operational voltage	380 Vac	
Rated thermal current	10 A	
Rated insulation voltage	500 Vac	
Mechanical life	1x10 ⁶ operations	
Connections	Screw-type terminals	
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)	
Tightening torque	0.8 Nm	
Switch type	1 speed	2 speeds
Contacts	1NO+1NC+1NO simultaneous	1NO+1NC+1NO staggered
Scheme		
Markings and homologations	CE cULus UKCA	

Code	PRSL0506PI	PRSL0507PI	PRSL0508PI
Utilisation category	AC 15		AC 23B
Rated operational current	1.9 A		10 A
Rated operational voltage	380 Vac		400 Vac
Rated thermal current	10 A		20 A
Rated insulation voltage	500 Vac		660 Vac
Mechanical life	1x10 ⁶ operations		1x10 ⁶ operations
Connections	Screw-type terminals		Screw-type terminals with self-lifting pads
Wires	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)		1x2,5 mm ² , 2x1,5 mm ²
Tightening torque	0.8 Nm		0,8 Nm
Switch type	1 speed	3 speeds	1 speed
Contacts	3NO simultaneous	3NO staggered	3NC simultaneous
Scheme			
Markings and homologations	CE cULus UKCA		CE ENEC UKCA

TECHNICAL SPECIFICATIONS OF THE LAMP HOLDERS

Code	PRSL0501PI
Maximum voltage	125 V
Maximum power	2.6 W
Lamp type (not supplied)	With bayonet coupling
Connections	Screw-type terminals
Wires	1x2.5 mm ² , 2x1.5 mm ²
Tightening torque	0.8 Nm
Markings and homologations	CE UKCA

OVERALL DIMENSIONS (mm)



No. of actuators	Dimensions (mm)				Weight (kg)
	A	B	C	D	
2	292	140	76	87	0.450
3	333	181	76	87	0.550
4	372	222	76	87	0.650
6	459	307	76	87	0.900
8	605	393	83	116	1.200
10	685	474	83	116	1.400
12	771	560	90	116	1.700

STANDARD CONTROL STATIONS

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

2 actuators

PF03L020005 with standard pushbuttons
PF24020002 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton 
		Pushbutton 

PF03L020014 with standard pushbuttons
PF24020003 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.2 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
		Pushbutton 

3 actuators

PF03L030004 with standard pushbuttons
PF24030004 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton 
		Pushbutton 

PF03L030020 with standard pushbuttons
PF24030003 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.2 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
		Pushbutton 

4 actuators

PF03L040105 with standard pushbuttons
PF24040024 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0503PI 1NO 1 speed	Pushbutton  GREEN
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton 
		Pushbutton 

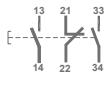
PF03L040106 with standard pushbuttons
PF24040006 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0503PI 1NO 1 speed	Pushbutton  GREEN
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.2 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
		Pushbutton 

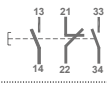
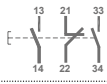
PF03L040022 with standard pushbuttons
PF24040001 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.4 PRSL0503PI 1NO 1 speed	Pushbutton 
		Pushbutton 
		Pushbutton 
		Pushbutton 

PF03L040030 with standard pushbuttons
PF24040003 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.4 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
		Pushbutton 
		Pushbutton 
		Pushbutton 

PF03L040243 with standard pushbuttons
PF24040002 with dust-tight pushbuttons

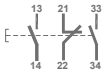
Switch scheme	Switches	Actuators
	No.1 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
	No.1 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton 
		Pushbutton 

6 actuators

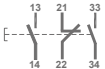
PF03L060098 with standard pushbuttons
PF24060062 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.4 PRSL0503PI 1NO 1 speed	Pushbutton 
		Pushbutton 
		Pushbutton 
		Pushbutton 
-	-	Blanking plug

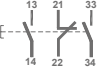
PF03L060139 with standard pushbuttons
PF24060011 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.4 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
		Pushbutton 
		Pushbutton 
		Pushbutton 
-	-	Blanking plug

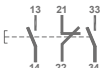
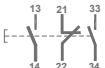
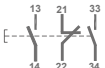
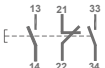
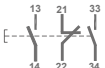
PF03L060113 with standard pushbuttons
PF24060063 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.2 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton 
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton 
-	-	Blanking plug

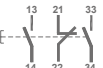
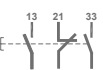
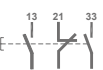
PF03L060293 with standard pushbuttons
PF24060029 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton  GREEN
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.4 PRSL0503PI 1NO 1 speed	Pushbutton 
	No.4 PRSL0503PI 1NO 1 speed	Pushbutton 
	No.4 PRSL0503PI 1NO 1 speed	Pushbutton 
	No.4 PRSL0503PI 1NO 1 speed	Pushbutton 

PF03L060399 with standard pushbuttons
PF24060064 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton  GREEN
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.4 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
	No.4 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
	No.4 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
	No.4 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 

PF03L060192 with standard pushbuttons
PF24060031 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton  GREEN
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.2 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
	No.2 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton 
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton 
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton 

8 actuators

PF03L080201 with standard pushbuttons
PF24080044 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.6 PRSL0503PI 1NO 1 speed	Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton

PF03L080471 with standard pushbuttons
PF24080101 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.6 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton

PF03L080544 with standard pushbuttons
PF24080108 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.2 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton
		Pushbutton
	No.4 PRSL0503PI 1NO 1 speed	Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton

PF03L080545 with standard pushbuttons
PF24080107 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.4 PRSL0505PI 1NO+1NC+1NO 2 speeds	Pushbutton
		Pushbutton
		Pushbutton
	No.2 PRSL0503PI 1NO 1 speed	Pushbutton
		Pushbutton

10 actuators

PF03L100334 with standard pushbuttons
PF24100051 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.8 PRSL0503PI 1NO 1 speed	Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton

PF03L100398 with standard pushbuttons
PF24100072 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.3 PRSL0503PI 1NO 1 speed	Pushbutton
	No.1 PRSL0502PI 1NC	Pushbutton
		Pushbutton
	No.6 PRSL0503PI 1NO 1 speed	Latched mushroom pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton

PF03L100399 with standard pushbuttons
PF24100071 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
	No.8 PRSL0503PI 1NO 1 speed	Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton

12 actuators

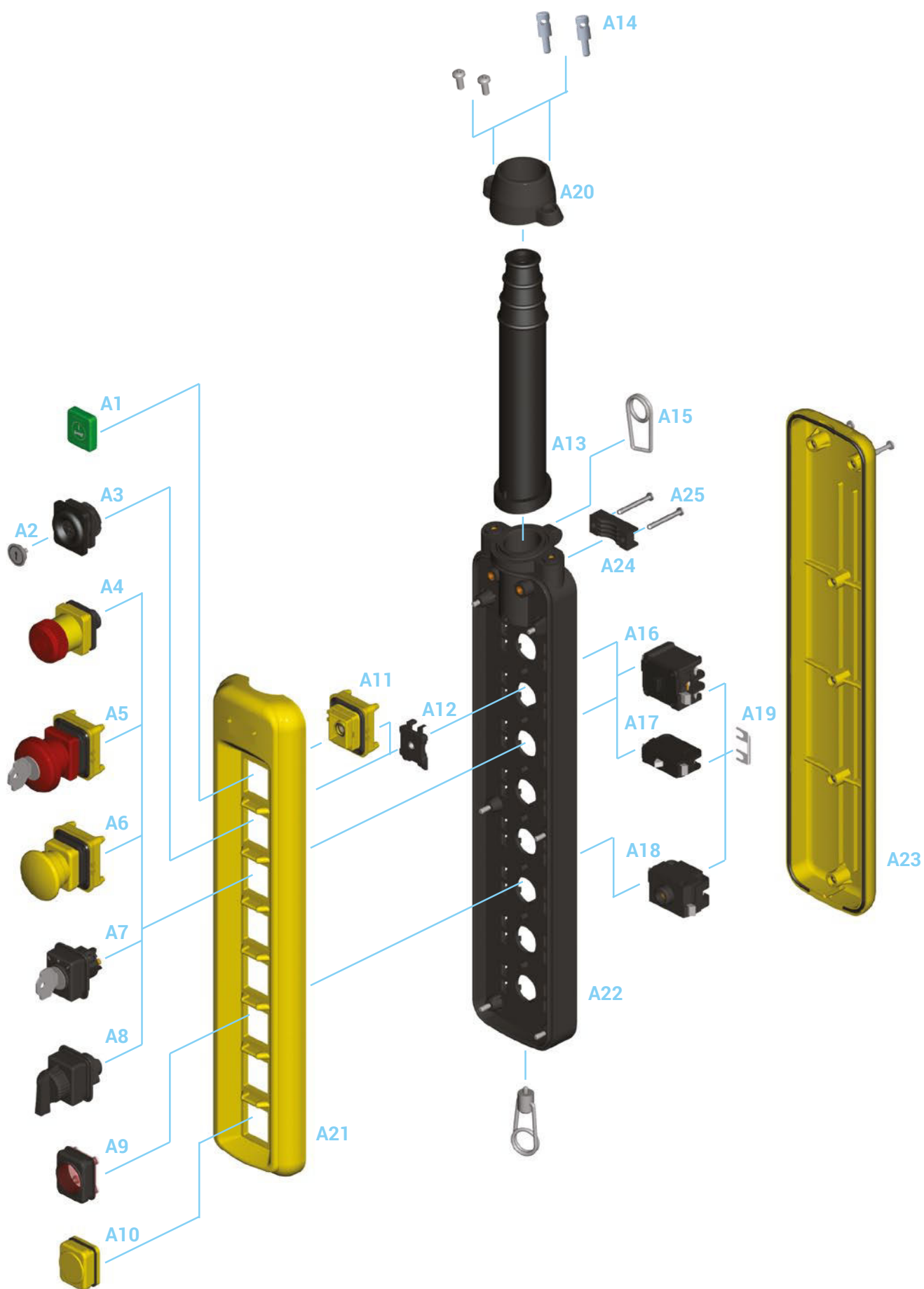
PF03L120282 with standard pushbuttons
PF24120031 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
	No.1 PRSL0504PI 1NO+1NC+1NO 1 speed	Pushbutton
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
	No.10 PRSL0503PI 1NO 1 speed	Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton

PF03L120283 with standard pushbuttons
PF24120032 with dust-tight pushbuttons

Switch scheme	Switches	Actuators
		Pushbutton
	No.3 PRSL0503PI 1NO 1 speed	Pushbutton
		Pushbutton
	No.1 PRSL0502PI 1NC	Latched mushroom pushbutton
		Pushbutton
		Pushbutton
	No.8 PRSL0503PI 1NO 1 speed	Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton
		Pushbutton

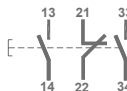
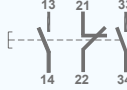
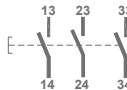
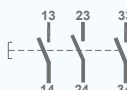
ASSEMBLY DRAWING



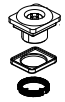
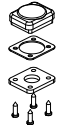
Refer to the following tables for descriptions of components: "Switches", "Actuators", "Pilot lights", "Mushroom pushbuttons", "Selector switches" and "Accessories".

COMPONENTS

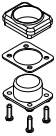
Switches

Ref.	Drawing	Description	Scheme	Code
A16		1 speed, 1NO+1NC+1NO simultaneous switch		PRSL0504PI
		2 speeds, 1NO+1NC+1NO staggered switch		PRSL0505PI
		1 speed, 3NO simultaneous switch		PRSL0506PI
		3 speeds, 3NO staggered switch		PRSL0507PI
		1 speed, 3NC simultaneous switch		PRSL0508PI
A17		1 NC switch		PRSL0502PI
		1 NO switch		PRSL0503PI
		1 NO switch for mushroom pushbutton		PRSL0510PI
A18		Lamp holder with bayonet coupling (without bulb)		PRSL0501PI

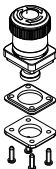
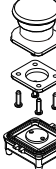
Actuators

Ref.	Drawing	Description	Code
A1		Button with label (Pushbuttons moulded in two colours to guarantee clear reading and wear resistance are available only on request.)	TL _ _ _ _ _ See button tables
A2		Disk for dust-tight pushbutton	PRTA_ _ _ _ PI See disk table
A3		Dust-tight pushbutton	PRSL0550PI
A10		Blanking plug	PRSL0517PI
A11		Button housing	PRSL0518PI

Pilot lights

Ref.	Drawing	Colour	Code
A9		Red	PRSL0515PI
		Green	PRSL0516PI
		Yellow	PRSL0521PI

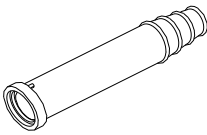
Mushroom pushbuttons

Ref.	Drawing	Description	Code
A4		Latched mushroom pushbutton for emergency stop	PRSL0500PI
A5		Key mushroom pushbutton (yellow)	PRSL0520PI
		Key mushroom pushbutton (red)	PRSL0520RO
A6		Impulse mushroom pushbutton	PRSL0512PI

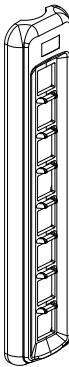
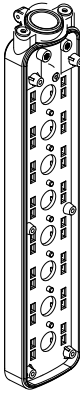
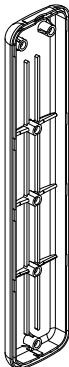
Selector switches

Ref.	Drawing	Description	Code
A7		Key selector switch - 2 or 3 maintained positions	PRSL0513PI
A8		Selector switch - 2 or 3 maintained positions	PRSL0514PI
		Selector switch - 2 or 3 spring return positions	PRSL0519PI

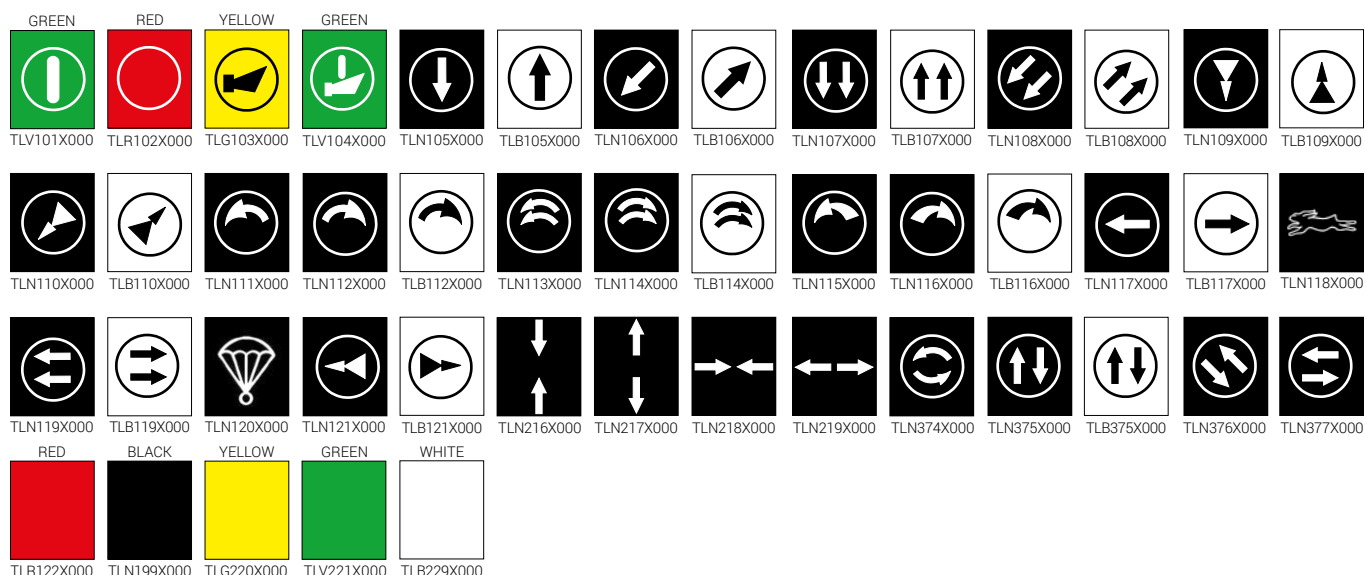
Accessories

Ref.	Drawing	Description	Code
A12		Mechanical interlock	PRSL7816PI
A13		Cable sleeve - NPA 2-6 buttons	PRGO0100PE
		Cable sleeve - NPA 8-12 buttons	PRGO0105PE

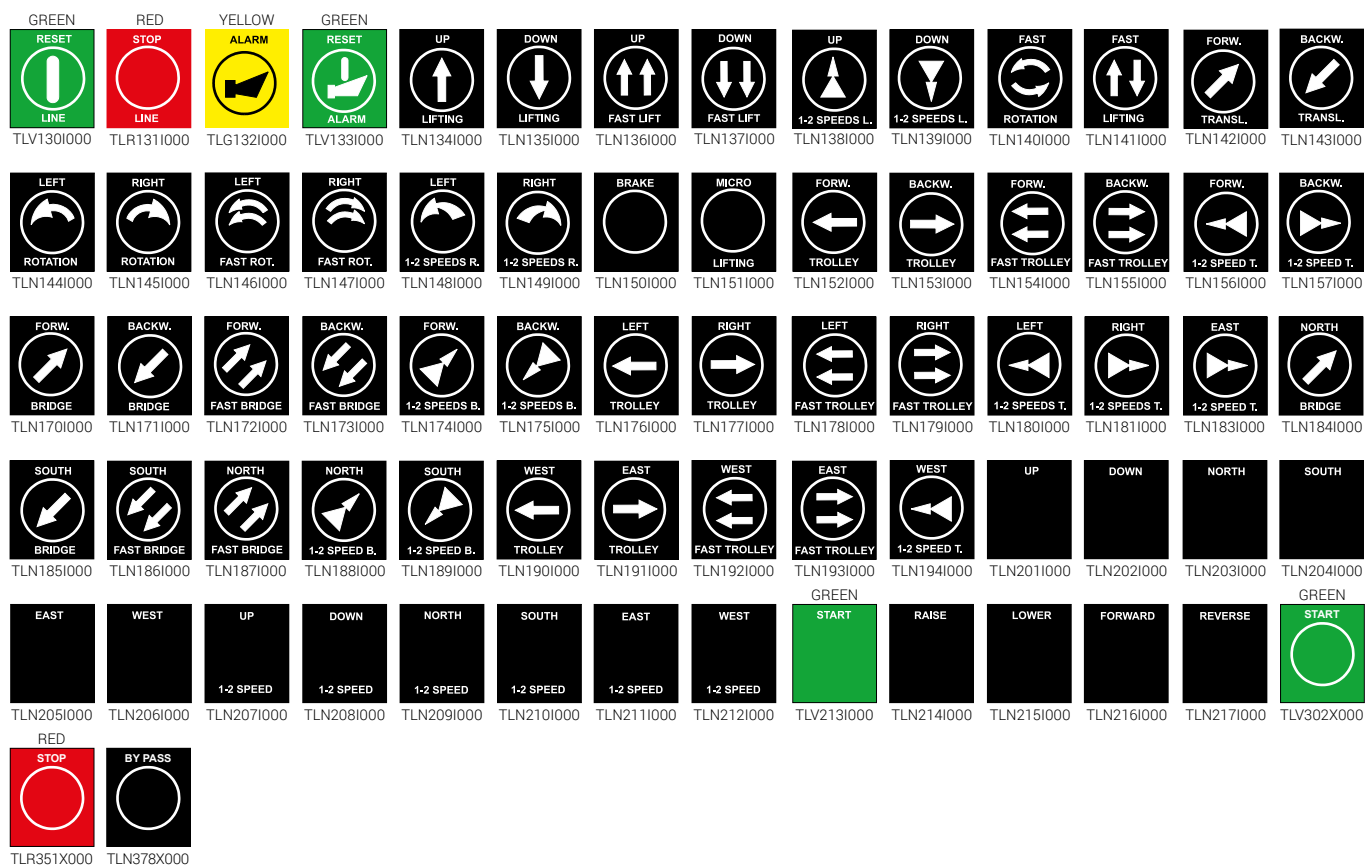
Accessories

Ref.	Drawing	Description	Code
A14		Wire fixing	PRT06626PE
A15		Hook	PRGA0001PE
A19		22 mm connecting bridge	PRTR6120PE
		28 mm connecting bridge	PRTR6121PE
		25 mm connecting bridge	PRTR6122PE
		31 mm connecting bridge	PRTR6123PE
		47 mm connecting bridge	PRTR6124PE
A20		Cable sleeve holder - NPA 2-6 buttons	PRSL9735PI
		Cable sleeve holder - NPA 8-12 buttons	PRSL9740PI
A21		Upper cover with tightening rubber - NPA 2 buttons	PRSL5810PI
		Upper cover with tightening rubber - NPA 3 buttons	SL000109
		Upper cover with tightening rubber - NPA 4 buttons	SL000164
		Upper cover with tightening rubber - NPA 6 buttons	SL000165
		Upper cover with tightening rubber - NPA 8 buttons	SL000166
		Upper cover with tightening rubber - NPA 10 buttons	PRSL5830PI
		Upper cover with tightening rubber - NPA 12 buttons	PRSL5835PI
A22		Central section - NPA 2 buttons	PRSL5811PI
		Central section - NPA 3 buttons	PRSL5839PI
		Central section - NPA 4 buttons	PRSL5816PI
		Central section - NPA 6 buttons	PRSL5821PI
		Central section - NPA 8 buttons	PRSL5826PI
		Central section - NPA 10 buttons	PRSL5831PI
		Central section - NPA 12 buttons	PRSL5836PI
A23		Lower enclosure, tightening rubber, screws - NPA 2 buttons	PRSL5812PI
		Lower enclosure, tightening rubber, screws - NPA 3 buttons	SL000110R
		Lower enclosure, tightening rubber, screws - NPA 4 buttons	SL000167R
		Lower enclosure, tightening rubber, screws - NPA 6 buttons	SL000168R
		Lower enclosure, tightening rubber, screws - NPA 8 buttons	SL000169R
		Lower enclosure, tightening rubber, screws - NPA 10 buttons	PRSL5832PI
		Lower enclosure, tightening rubber, screws - NPA 12 buttons	PRSL5837PI
A24		Cable clamp	PRSL9210AU
A25		Screws for cable clamp	PRVI0215PE

Standard buttons - Symbols



Standard buttons - English



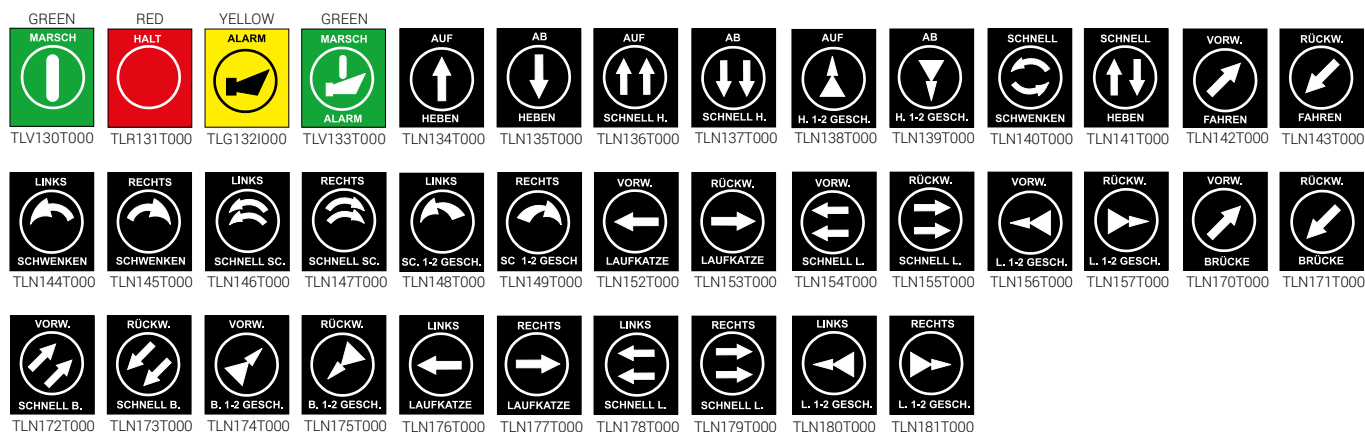
Standard buttons - Italian

GREEN MARCIA LINEA TLN123X000	RED ARRESTO LINEA TLN124X000	YELLOW ALLARME TLN125X000	GREEN MARCIA ALLARME TLN126X000	SALITA SOLLEV.TO TLN127X000	DISCESA SOLLEV.TO TLN128X000	SALITA SOLLEV. VEL. TLN129X000	DISCESA SOLLEV. VEL. TLN130X000	SALITA SOLL.1-2 VEL. TLN131X000	DISCESA SOLL.1-2 VEL. TLN132X000	2° VELOC. SOLLEV.TO TLN133X000	3° VELOC. SOLLEV.TO TLN134X000	VELOCE ROTAZIONE TLN135X000	VELOCE SOLLEV.TO TLN136X000
AVANTI TRASLAZ. TLN137X000	INDIETRO TRASLAZ. TLN138X000	SINISTRA ROTAZIONE TLN139X000	DESTRA ROTAZIONE TLN140X000	SINISTRA ROTAZ. VEL. TLN141X000	DESTRA ROTAZ. VEL. TLN142X000	SINISTRA ROT.1-2 VEL. TLN143X000	DESTRA ROT.1-2 VEL. TLN144X000	AVANTI CARRELLO TLN145X000	INDIETRO CARRELLO TLN146X000	AVANTI CARR. VEL. TLN147X000	INDIETRO CARR. VEL. TLN148X000	AVANTI CARR.1-2 VEL. TLN149X000	INDIETRO CARR.1-2 VEL. TLN150X000
SALITA MONTAGGIO TLN151X000	DISCESA MONTAGGIO TLN152X000	AVANTI PONTE TLN153X000	INDIETRO PONTE TLN154X000	AVANTI PONTE VEL. TLN155X000	INDIETRO PONTE VEL. TLN156X000	AVANTI PONTE 1-2 VEL. TLN157X000	INDIETRO PONTE 1-2 VEL. TLN158X000	SINISTRA CARRELLO TLN159X000	DESTRA CARRELLO TLN160X000	SINISTRA CARR. VEL. TLN161X000	DESTRA CARR. VEL. TLN162X000	SINISTRA CAR.1-2 VEL. TLN163X000	DESTRA CAR.1-2 VEL. TLN164X000
SALITA ARGANO TLN165X000	DISCESA ARGANO TLN166X000	SALITA ARGANO VEL. TLN167X000	DISCESA ARGANO VEL. TLN168X000	SALITA ARG. 1-2 VEL. TLN169X000	DISCESA ARG. 1-2 VEL. TLN170X000	SALITA PARANCO TLN171X000	DISCESA PARANCO TLN172X000	SALITA PARANCO VEL. TLN173X000	DISCESA PARANCO VEL. TLN174X000	SALITA PAR. 1-2 VEL. TLN175X000	DISCESA PAR. 1-2 VEL. TLN176X000	SALITA SOLL. PRINC. TLN177X000	DISCESA SOLL. PRINC. TLN178X000
SALITA SOLL. AUSIL. TLN179X000	DISCESA SOLL. AUSIL. TLN180X000	APRE BENNA TLN181X000	CHIUDE BENNA TLN182X000	APRE PINZA TLN183X000	CHIUDE PINZA TLN184X000	FRENO TLN185X000	AVANTI TLN186X000	INDIETRO TLN187X000	SINISTRA TLN188X000	DESTRA TLN189X000	VELOCE PONTE TLN190X000	VELOCE CARRELLO TLN191X000	APRE POLIPO TLN192X000
CHIUDE POLIPO TLN193X000	CARICO BETONIERA TLN194X000	SCARICO BETONIERA TLN195X000	VERTICALE TLN196X000	ORIZZONTALE TLN197X000	LUCE TLN198X000	PRENDE MAGNETE TLN200X000	LASCIA MAGNETE TLN201X000	INNESTO CASSEFORMA TLN202X000	DISINNESTO CASSEFORMA TLN203X000	AVANTI SINISTRA TLN204X000	DESTRA INDIETRO TLN205X000	ACCELERA TLN206X000	DECELERA TLN207X000
TRAIÑO TLN208X000	FERMO TRAIÑO TLN209X000	SALITA BRACCIO TLN210X000	DISCESA BRACCIO TLN211X000	LENTO SOLLEV.TO TLN212X000	ACCOST. ROTAZIONE TLN213X000	INVERSIONE TLN214X000	ALZA LAMA TLN215X000	APRE TLN226X000	CHIUDE TLN227X000	VELOCE TLN228X000	GREEN INIZIO TLV301X000	GREEN START TLV302X000	RED STOP TLR351X000
RED STOP AVANZAMENTO TLR352X000	RED ALT TLR353X000	BY PASS TLN378X000											

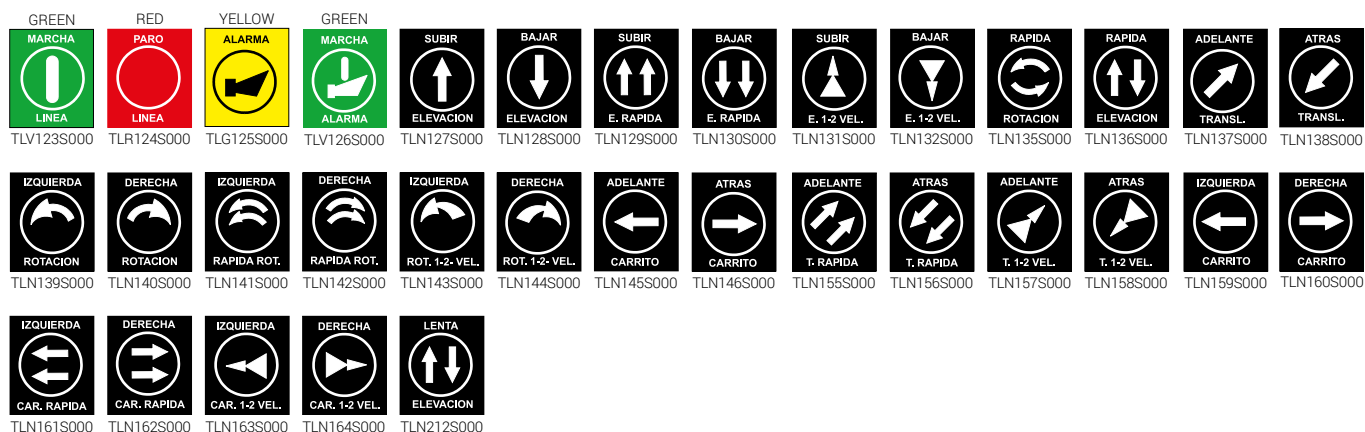
Standard buttons - French

GREEN MARCHÉ LIGNE TLV130F000	RED ARRÊT LIGNE TLR131F000	YELLOW ALARME TLG132F000	GREEN MARCHÉ ALARME TLV133F000	MONTÉE LEVAGE TLN134F000	DESCENTE LEVAGE TLN135F000	MONTÉE VITE LEV. TLN136F000	DESCENTE VITE LEV. TLN137F000	MONTÉE LEV. 1-2 VIT. TLN138F000	DESCENTE LEV. 1-2 VIT. TLN139F000	VITE ROTATION TLN140F000	VITE LEVAGE TLN141F000	AVANT TRANSL. TLN142F000	ARRIÈRE TRANSL. TLN143F000
GAUCHE ROTATION TLN144F000	DROITE ROTATION TLN145F000	GAUCHE VITE ROT. TLN146F000	DROITE VITE ROT. TLN147F000	GAUCHE ROT. 1-2 VITE TLN148F000	DROITE ROT. 1-2 VITE TLN149F000	AVANT CHARIOT TLN152F000	ARRIÈRE CHARIOT TLN153F000	AVANT CHARIOT VITE TLN154F000	ARRIÈRE CHARIOT VITE TLN155F000	AVANT CH. 1-2 VIT. TLN156F000	ARRIÈRE CH. 1-2 VIT. TLN157F000	AVANT PONT TLN170F000	ARRIÈRE PONT TLN171F000
AVANT PONT VITE TLN172F000	ARRIÈRE PONT VITE TLN173F000	AVANT PONT 1-2 VIT. TLN174F000	ARRIÈRE PONT 1-2 VIT. TLN175F000	GAUCHE CHARIOT TLN176F000	DROITE CHARIOT TLN177F000	GAUCHE CHAR. VITE TLN178F000	DROITE CHAR. VITE TLN179F000	GAUCHE CH. 1-2 VIT. TLN180F000	DROITE CH. 1-2 VIT. TLN181F000	TRANSLAT. TLN183F000	TRANSLAT. TLN184F000	SOUFFL. TLN185F000	ROTAZIONE TLN186F000

Standard buttons - German



Standard buttons - Spanish



Disks



