



# CHARLIE BLACK EDITION

## 20th anniversary edition



Compact-sized pendant station for auxiliary control. Modern user-friendly design, developed by an industrial design firm on technical, anthropomorphic, futuristic and ergonomic specifications. Fully compatible with the spare parts of Mike pendant station.

### FEATURES

- Reduced time and costs for installation and wiring: the switches, assembled inside the pendant station without screws, are separated from the actuators, mounted on the cover.
- 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.
- 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: Charlie Black Edition 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 configuration with 2 or 3 actuators.
- 1NO or 1NC switches, LEDs voltage 24/48 Vac/dc or 110/230 Vac and 110 Vdc
- Mechanical interlock to prevent simultaneous operation of opposite functions.
- Wide range of actuators in different colours: one or two speed pushbuttons, pilot lights, impulse or latched mushroom pushbuttons with rotation release.
- One speed pushbuttons and selector switches available in illuminated version in a range of colours.
- Available with pushbuttons with two-colour moulded permanent symbols.

### CERTIFICATIONS

- CE marking and EAC certification.

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



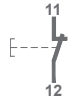



## CERTIFICATIONS

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 EAC





## 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 clamp M20
	Spiral cable clamp M20
Operating positions	Any position
Mechanical life	1 speed pushbutton: 10x10 <sup>6</sup> operations
	2 speed pushbutton: 10x10 <sup>6</sup> operations
	Illuminated pushbutton: 10x10 <sup>6</sup> operations
Weight	~ 320 g

## TECHNICAL SPECIFICATIONS OF THE SWITCHES

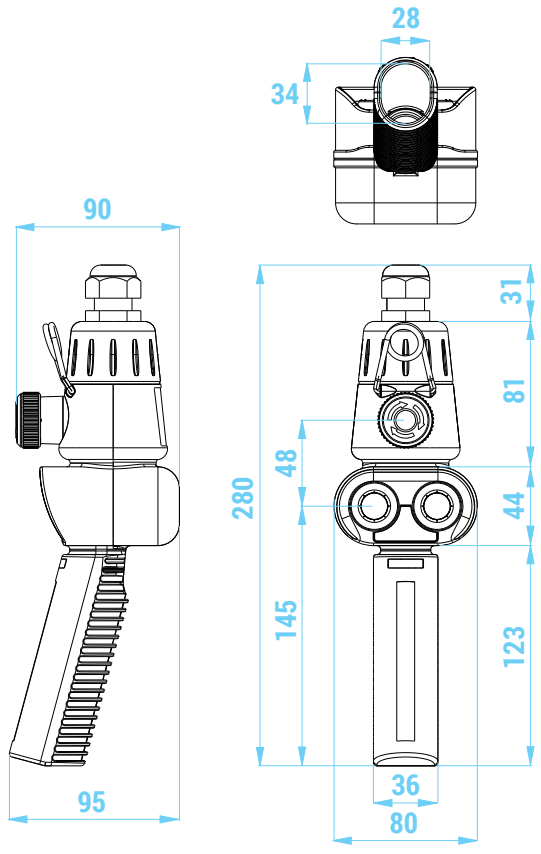
Code	PRSL1800PI	PRSL1801PI
Utilisation category	AC 15	
Rated operational current	3 A	
Rated operational voltage	250 Vac	
Rated thermal current	10 A	
Rated insulation voltage	300 Vac	
Electrical Reliability EN 60947-5-4	$\lambda < 2.5 \times 10^{-8}$ at 24 V, 5 mA, $5 \times 10^6$ cycles	-
Mechanical life	10x10 <sup>6</sup> operations	
Connections	Screw-type terminals	
Wires	2x0.5mm <sup>2</sup> - 2x1.5 mm <sup>2</sup> - 1x2.5 mm <sup>2</sup> (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	
Microswitch type	Double break, slow action	
Contacts	1NO	1NC (All NC contacts are of the positive opening operation type  )
Scheme		
Markings and homologations	  	

## TECHNICAL SPECIFICATIONS OF THE LEDs

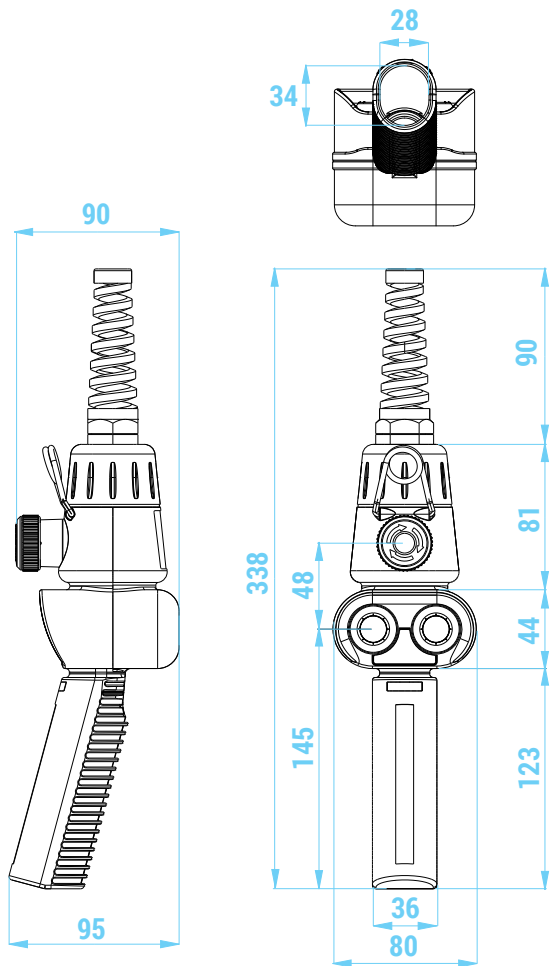
Code	PRSL1820PI	PRSL1821PI
Rated operational voltage	24-48 Vac/dc	110-240 Vac and 110 Vdc
Rated current consumption	1.30-2.70 mA	1.15-2.50 mA
Scheme		
Markings and homologations	  	

### OVERALL DIMENSIONS (mm)

With cable clamp M20



With spiral cable clamp M20

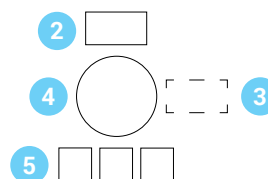
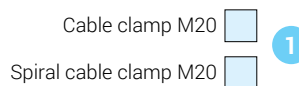


# CHARLIE BLACK EDITION - REQUEST FORM FOR CONTROL STATION

## Instructions

Fill in the chart according to the control elements required.

- Cable clamp M20 and spiral cable clamp M20:** tick the box if the cable clamp M20 or the spiral cable clamp M20 are required.
- Control elements:** enter the number corresponding to the control element required (1 to 24) according to the legend. Eg. 15
- Button disks:** for pushbuttons (1, 4 and 7) enter the number corresponding to the disk required (50 to 88) according to the legend. Both full color disks and transparent disks (for illuminated buttons) are available. Eg. 57
- If you choose **disks with arrows** (legend 54 to 73), enter the direction of the arrow in the circle. Eg. ↗
- Switches and LEDs:** enter the number corresponding to the switch or LED required (90 to 93) according to the legend. It is possible to enter up to 3 switches per position. Eg. 91  
2 speed pushbuttons can activate two switches on the first speed and one switch on the second speed.  
ATTENTION: LEDs can be placed only in the central position and they are used for illuminated buttons and for pilot lights.  
(See Control Element legend for switch activation).
- Mechanical interlock:** tick the box if the mechanical interlock (MI) between two control elements is required. Eg.



## 2 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 left, in the middle or on the right.  
Eg.: 2 speed pushbutton: the first speed activates the switches on the left and in the middle, while the second speed activates the switch on the right.

### 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	speed 1	speed 1
2	1 speed black pushbutton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	1 speed grey pushbutton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	2 speed pushbutton with disk	speed 1	speed 1	speed 2
5	2 speed black pushbutton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	2 speed grey pushbutton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	1 speed illuminated pushbutton with disk	speed 1	LED	speed 1
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 8 Blanking plug

### Pilot lights

- Red pilot light
- Blue pilot light
- Orange pilot light
- Yellow pilot light
- Green pilot light
- White pilot light

### Mushroom pushbuttons

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

- Latched mushroom pushbutton for emergency stop
- Latched mushroom pushbutton for emergency stop Ø 40 mm
- Impulse black mushroom pushbutton Ø 40 mm with yellow base
- Impulse black mushroom pushbutton Ø 40 mm with yellow base and protective cap
- Impulse red mushroom pushbutton Ø 33 mm with black base
- Impulse blue mushroom pushbutton Ø 33 mm with black base
- Impulse orange mushroom pushbutton Ø 33 mm with black base
- Impulse yellow mushroom pushbutton Ø 33 mm with black base
- Impulse green mushroom pushbutton Ø 33 mm with black base
- Impulse black mushroom pushbutton Ø 33 mm with black base

## 3 Legend - Button disks

### Full color and symbol disks for pushbuttons (ref. 1 and 4)

50	GREEN	57	58	64	71	BLUE	78	BLACK
51	RED	59	60	65	72	YELLOW	79	GREEN
52	YELLOW	61	62	66	73	GREY	80	RED
53	GREEN	63	64	67	74	OPEN	81	BLUE
54		65	66	68	75	CLOSE	82	ORANGE
55		67	68	69	76	YELLOW		
56		69	70	70	77	WHITE		

### Transparent disks for illuminated pushbuttons (ref. 7)

84	RED	85	WHITE	86	BLUE	87	GREEN	88	ORANGE
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## 5 Legend - Switches and LEDs

- PRSL1800PI - 1NO switch
- PRSL1801PI - 1NC switch
- PRSL1820PI - LED 24/48 V AC/DC
- PRSL1821PI - LED 110/230 V AC and 110 V DC

