

Control  
signalling  
devices and  
accessories

## General characteristics

Our control and signalling units are designed to ensure accuracy, reliability, high mechanical and electrical life. All pushbuttons are certified IP65 (IP66 with optional dustproof cover), while foot switches are IP54. The contact blocks are equipped with maximum 4 contacts with rating up to 10 A each. The NC contacts are made to guarantee positive opening for safety function. The terminal screws with self-raising plate are supplied in open position for an easier and quicker wiring operation.



## Technical data

Rated insulation voltage	Ui	IEC947-5-1	V	600	
Rated thermal current	Ithe	IEC947-5-1	A	10	
Rated operational current		IEC947-5-1/EN60947-5-1			
	Category AC15	Ie	230 V	A	6
			400 V	A	4
			500 V	A	3
	Category DC13	Ie	24 V	A	6
			250 V	A	0,4
Insulation resistance			500 V DC	MΩ	100
Contact resistance		IEC255-7 cat. 3	Initial value	mΩ	25
Dielectric insulation			50/60 Hz for 1' *	Vca	2500
Short circuit protective devices		IEC269 (IEC947-5-1)			
		Gl or gG fuse		A	10
Conditional short circuit current		IEC947-5-1		A	100
Pollution degree		IEC947-5-1			3
Command protection degree (EN 60529)		Non-illuminated/illuminated			IP65
		Dual pushbuttons			IP40
		Joystick			IP65
Vibration resistance		IEC68-2-6		mm	0,35 ± 15% (10÷55 Hz ± 1 Hz)
Shock resistance		IEC68-2-27	11 ms	g	30
Mechanical life		Mushroom and coupling pushbuttons and controllers		cycles	500000
		Selector switches		cycles	1000000
		Illuminated pushbuttons		cycles	3000000
Electrical life		at 250 V AC 6 A with resistance load cosφ=1		min cycles	500000
		a 250 V AC 6 A with inductive load cosφ=0,4		min cycles	500000
Distance between contacts		Slow action models		mm	2x2
Terminals		Type			Screw with combined notch and removable plate
		Screw			M3,5
		Protection degree			IP20
		Material			Steel class 8.8 / 6-8 micron
		Max screw tightening Torque		cNm (kg cm)	120 (12,24)
		Max connection rigid cable		mm <sup>2</sup>	2x1,5
		flexible cable		mm <sup>2</sup>	2x1,5
		With prod terminal		mm <sup>2</sup>	1x1,5
		Terminal numbering			In accordance with EN50013
		Terminal colouring			Red for NC contacts, green for NO contacts
Air ambient temperature		operationals		°C	-25 ÷ +70
Relative humidity		operationals			95% max
Weather resistance			temperate in accordance with DIN 50014:		23/50
			damp in accordance with DIN 50015:		23/83
			hot humid in accordance with DIN 50015:		40-92
			variable humid in accordance with DIN 50016:		FW24

\* between terminals of the same polarity; between terminals of different polarity; between live metal parts and ground; between live and unpowered metal parts.

## Certifications and Approvals



IEC EN 60947

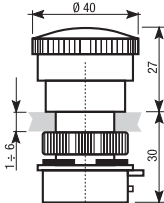
IPFB	•	+
PFB	•	+
C01B-C10B	•	+
C02-C20-C11	•	+

- UL approval file E72861
- CSA approval file 026716-0-000
- Approved
- + Conforms to requirements

- Rotate to release Ø40 emergency mushroom



Plastic Ø22 fixing with thermoplastic ring, IP65

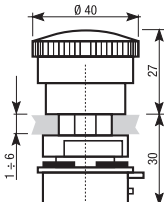
Code	Description		Pack	Weight pack (kg)
IPFB240	Rotate to release Ø40 mm red mushroom for rear mounting, fixing with thermoplastic ring		5	0,395

 standard article

when ordering please indicate both the code of the switch and of the contact, because the two products are handled separately



Ø22 fixing with metal screws, IP65

Code	Description		Pack	Weight pack (kg)
PFB240V	Rotate to release Ø40 mm red mushroom for rear mounting, fixing with metal screws		5	0,705

 standard article

when ordering please indicate both the code of the switch and of the contact, because the two products are handled separately

■ Contact blocks

Rear mounting



Slow action

Contact element	Code	Description	Pack	Weight pack (kg)
	<b>C01B</b>	Slow action single Contact block 1NC	5	0,545
	<b>C10B</b>	Slow action single Contact block 1NO	5	0,545

■ standard article

■ Twin contact blocks

Rear mounting



Slow action

Contact element	Code	Description	Pack	Weight pack (kg)
	<b>C02</b>	Slow action twin Contact block 2NC	5	0,415
	<b>C20</b>	Slow action twin Contact block 2NO	5	0,395
	<b>C11</b>	Slow action twin Contact block 1NO+1NC	5	0,405

■ standard article

## Thermoplastic control stations



Double insulation control stations

Contact element	Code	Description	Pack	Weight (kg)
	<b>SC150</b>	Enclosure IP65, yellow cover with red emergency button (turn to release), 1NC Contact block	1	0,194

standard article



Double insulation stations with control unit

Contact element	Code	Description	Pack	Weight (kg)
	<b>SC190</b>	Enclosure IP50 for elevator shaft (EN81) with red emergency button, indication of 0 or 1 position and blue reset button	1	0,164

standard article

## Flashing devices



Double insulation enclosures

Code	Description	Pack	Weight (kg)
<b>D91</b>	Flashing device 190-500V AC	1	0,184

standard article