

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 ²	2x1,5	
	flexible cable		mm ²	2x1,5	
	With prod terminal		mm ²	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

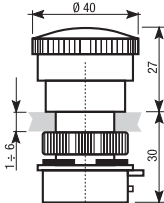
IPFB	•	+
PFB	•	+
C01B-C10B	•	+
C02-C20-C11	•	+

- 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

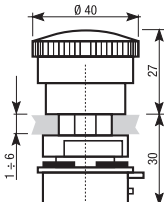
Code	Description		Pack	Weight pack (kg)
IPFB240	Rotate to release Ø40 mm red mushroom for rear mounting, fixing with thermoplastic ring		5	0,395

 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)
C01B	Slow action single Contact block 1NC		5	0,545
C10B	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)
C02	Slow action twin Contact block 2NC		5	0,415
C20	Slow action twin Contact block 2NO		5	0,395
C11	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)
	SC150	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)
	SC190	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)
D91	Flashing device 190-500V AC	1	0,184

standard article