



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)				
	GI 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		mm²	2x1,5
		flexible cable		mm²	2x1,5
	With prod terminal			mm²	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

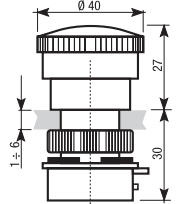
IPFB	•		+
PFB	•		+
C01B-C10B	•	•	+
C02-C20-C11	•	•	+

- 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

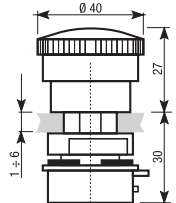
Code	Description		Pack	Weight pack (kg)
<b>IPFB240</b>	Rotate to release Ø40 mm red mushroom for rear mounting, fixing with thermoplastic ring		5	0,395

 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)
<b>PFB240V</b>	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


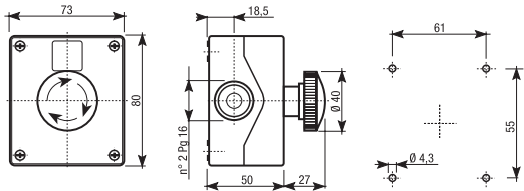
Contact element	Code	Description		Pack	Weight pack (kg)
	<b>C02</b>	Slow action twin Contact block 2NC		5	0,415
	<b>C20</b>	Slow action twin Contact block 2NO		5	0,395
	<b>C11</b>	Slow action twin Contact block 1NO+1NC		5	0,405

standard article

## Thermoplastic control stations




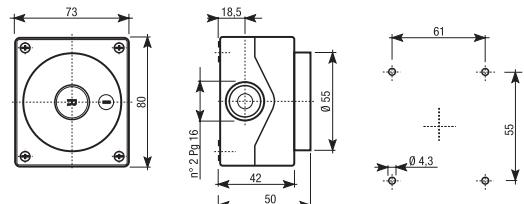
Double insulation control stations

Contact element	Code	Description		Pack	Weight (kg)
	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

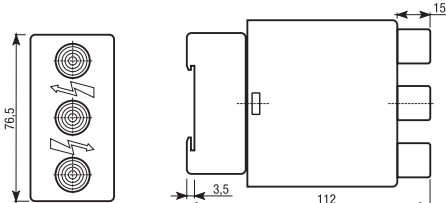
Contact element	Code	Description		Pack	Weight (kg)
	SC190	Enclosure IP50 for elevator shaft (EN81) with red emergency button, indication of 0 or 1 position and blue reset button		1	0,164

 standard article

## Flashing devices



Double insulation enclosures

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

 standard article