

SENSITIVE EDGES

The sensitive edge is a safety component to avoid crashing or cutting risks by sliding doors, automatic moving protections, electrical gates etc. The edges feature a PVC or EPDM coating, inside is a sensor (2 conductive blades, separated by a

non-conductive part). When the edge is pressed, the blades are in contact and close the circuit. The state change of the internal sensor (NO to NC) is processed by the control unit that sends a machine stop signal, eliminating the danger situation.

TYPES OF EDGES

Type B0
Type B1N
Type B2
Type B2N

Standard solution: length upon customer's request with pre-assembled sensor and aluminium support

Type B3NC conductive
Type B1NC conductive

Standard solution (upon request) or "do it yourself" (cutting/assembly of accessories by customer/installer)

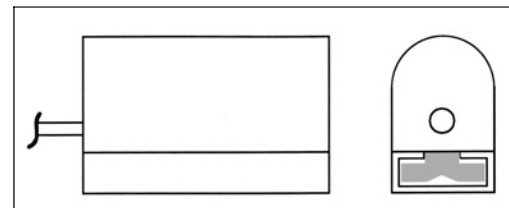
Edge type "B0"

Profile of black EPDM. The edges feature a sensor on the upper part of the profile to get maximum sensitivity.

Particularly suitable for safety catches or as an alternative to emergency wire micro switching. Supplied with both sides adhesive tape for wall fixing.

The edges of the profile are sealed with polyurethane resin to perfect watertight.

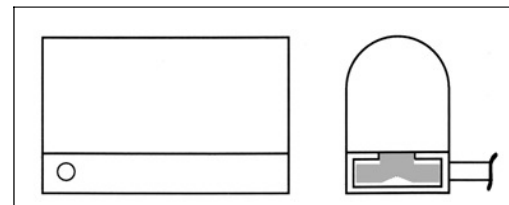
Upon request, the cable outlet can be at the bottom, on the side (see drawing).



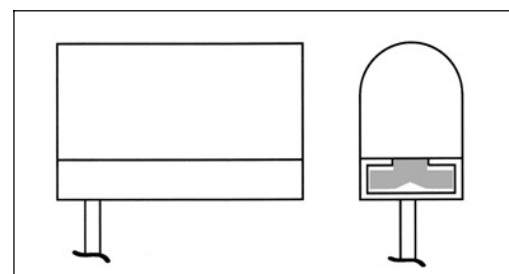
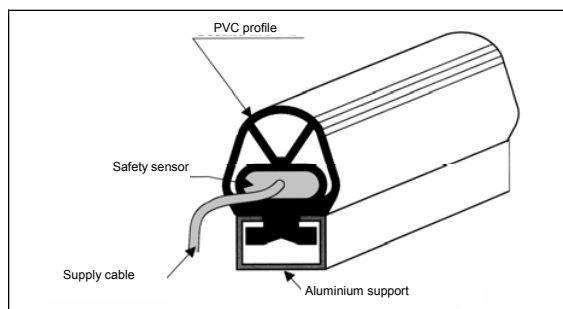
Head outlet (standard)

Edge type "B1N" - "B2" - "B2N"

Profile of black PVC for B1N and B2N; material EPDM for type B2. The edges feature a sensor on the bottom of the profile, to get a sensibility with front side operations, as well as with a max. angle of $\pm 45^\circ$. The ends of the profile are closed using polyurethane resin (better tightness). Particularly suitable for bent edges.



Side outlet (left/right)

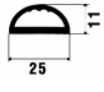
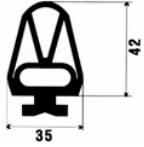
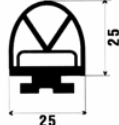
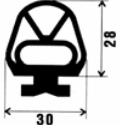


Bottom outlet

The supply cable is a 4 poles cable $4 \times 0,35\text{mm}^2$ FROR 300/500 standard length 3 meters. Different lengths can be supplied upon request.

The standard outlet of the supply cable is at the end of the profile.

Technical features:

Description	Type B0	Type B1N	Type B2	Type B2N
				
Operating distance	3 mm	5 mm	5 mm	5 mm
Extra-run operation	2 mm	20 mm	8 mm	10 mm
Operating thrust	3 kg	3 kg	3 kg	1 kg
Material	EPDM	PVC	EPDM	PVC
Length	Upon request max 15 m	Upon request max 6 m		
Fastening material	Bi-adhesive	Support of aluminium		
Chemical resistance	Acids, atmospheric agents	Oil, hydrocarb., diesel	Acids, atmospheric agents	Oil, hydrocarb., diesel
Protection degree	IP65			
Operating temperature	-10°C +50°C			
Max. contact voltage	30 V			
Max. contact current	30 mA			
Reference standard Safety category	Tests according to UNI 1760/2 Cat. 2 combined with control units type GP02/E and GP02/E-S2 Cat. 3 combined with control units type GP03 and GP03/S2			

How to order a sensitive edge type B0-B1N-B2-B2N:

Example: ordering a sensitive edge, length 1 m.

For a correct order, always specify:
 type of sensitive edge... (ex. **B1N**)
 length (mm) of the profile... (ex. 1000 mm)

length of the supply cable and outlet (ex. CS standard 3 m with head outlet. Specify if different)
 Type of fastening profile (ex. "SAC" or "SAI" or "SAL" see drawing)
 The complete description for the order is:
Sensitive edge type B1N L=1000 mm-CS-SAC

Edge type “B1NC” and “B3NC” conductive

Featuring a thermoplastic profile TPE with 2 co-extruded parts of conductive material (sensor) and 2 copper wires, to stabilize the resistive value of the contact on the length of the edge.

Particularly suitable for external use, with any environment and temperature (-30°C +70°C). It can be supplied as a “do it yourself” solution, with a series of accessories allowing to the customer/installer to implement the edge directly on the machine.

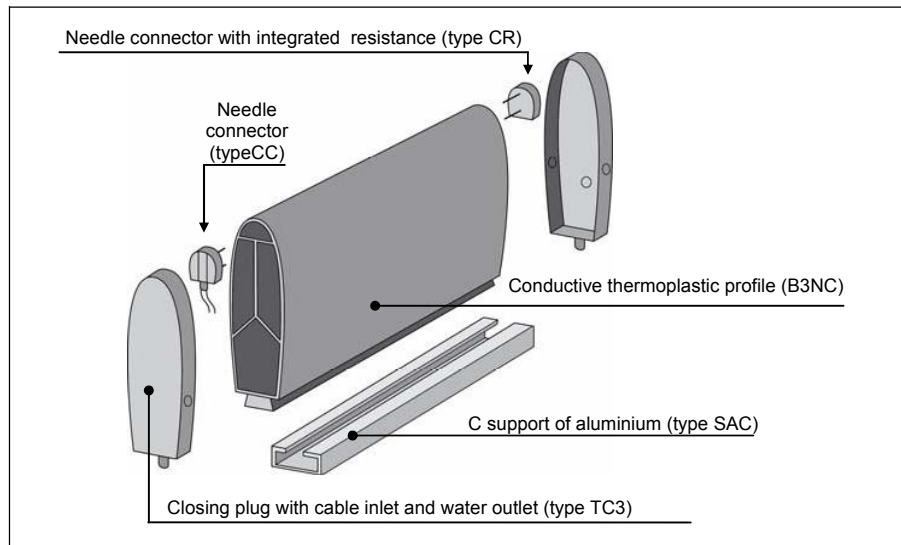
Upon request, the edge can be tailor-cut and supplied complete with all accessories.

The supply of the system is made by electric cable 2 wires 2*0,35 mm² CEI 20-22 with die-cast needle connector (type CC) to allow an easy insertion into the chamber containing the copper cable. Standard length of cable 3 meters.

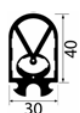

The electric circuit is closed by a needle connector (type CR) containing an electric resistance 8,2kOhm.

The ends of the edge are sealed by means of special plugs (type TC) that, stuck with a special stick, have a better tightness to water.

The standard outlet of the supply cable is at the end of the profile. If the outlet is lateral or on the bottom, please communicate at the order. For the “do it yourself” solution, the cable outlet is made by drilling the cable hole into the terminal plug.



Technical features:

Description	Type B1NC	Type B3NC
		
Operating distance	7 mm	5 mm
Extra-run operation	14,5 mm ø80 250N 27 mm ø80 600N	76 mm ø80 250N 85 mm ø80 600N
Operating thrust	4,2 kg ø80	2 kg ø80
Material	TPE black	
Length	Solution assembled max. 6 m or roll of 25 m	Solution assembled max. 6 m Or roll of 12 m
Weight kg/m	0,6	0,9
Fastening material	Profile of aluminium L = 6 m	
Chemical resistance	Acid, alkali, abrasion, atmospheric agents	
Protection degree	IP65	
Operat. temperature	-30°C +70°C	
Max. contact voltage	30 V	
Mac. contact current	30 mA	
Reference standard Safety category	Test according to UNI 1760/2 and UNI12978 for motorized gates Cat. 2 combined with control unit type GP02R	

How to order a sensitive edge type B1NC-B3NC:

Ordering a sensitive edge, 1 meter length.

Always specify the following:

Type of sensitive edge... (ex. **B3NC**)

Length (mm) of the profile... (ex. 1000 mm)

Length of the supply cable and outlet... (ex. CS standard 3 m, head outlet. If different, specify the length.

Type of fastening support (ex. "SAC" or "SAI" or "SAL")

The complete order is therefore:

Sensitive edge type B3NC L=1000 mm-CS-SAC

For the "do it yourself" solution, order according to the following scheme:

n. 1 package profile TPE type (ex. **B3NC** standard roll 12mt)

n. 1 package connector kits type **KC** (n. 1 connector with resistance type CR + n. 1 connector with electric cable type CC)

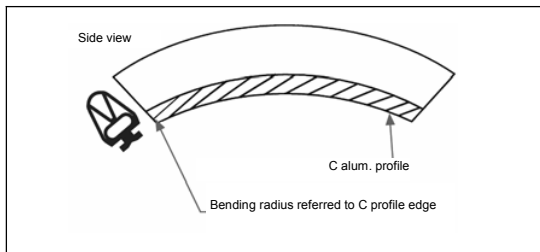
n. 1 package standard length 6 m support of aluminium type **SAC29 - SAL29 - SAI29** for profile fastening

n. 1 Kit package with 2 closing plugs type: **TC1** for profile B1NC, **TC3** for profile B3NC

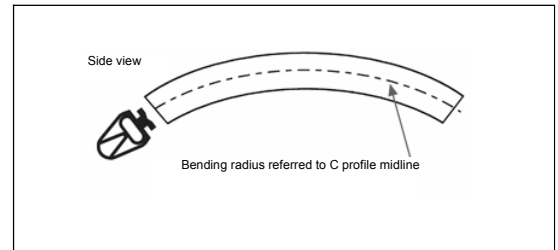
n. 1 bottle 10ml of primer cod. **PR**

n. 1 bottle 10ml of stick gel cod. **CY**

All edges listed in this documentation can be supplied in bent version, with the following radiuses:



Type A: minimum bending radius 300 mm



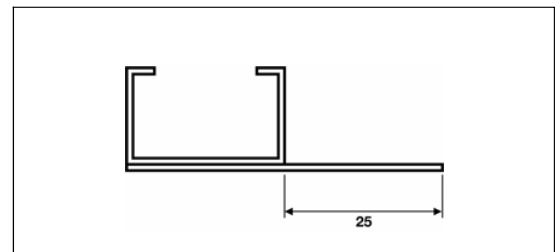
Type B: minimum bending radius 800 mm

EDGE FASTENING

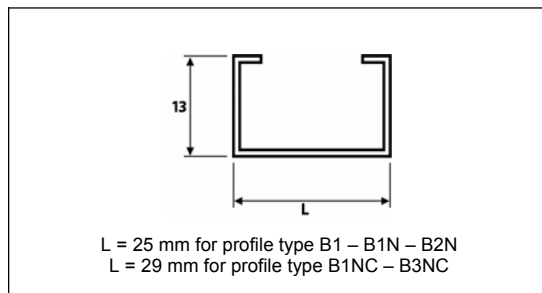
The edge fastening is made assembling the profile onto man aluminium support, to be specified in the order.

Three types of aluminium supports are available:

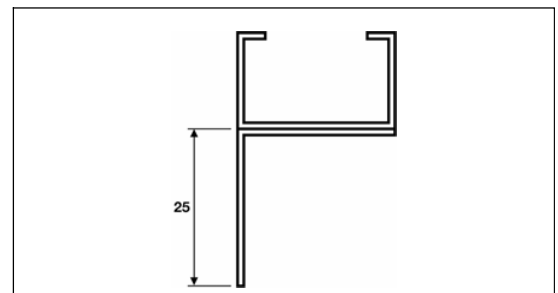
- support C fastening "C" cod. SAC
- support L fastening cod. SAL
- support I fastening cod. SAI



Support of I fastening



Support of C fastening



Support of L fastening