

sensing the future



ClickLine CoverLine StandardLine

Electrical safety edges and rubber profiles with 20 mm contact strips for automatic gates, doors, public transport and industrial applications

Reliable, proven and suitable for self-assembly

- Suitable profile for every application
- Best electrical properties
- High mechanical load capacity
- Quick assembly because of special profile shapes
- Conformity acc. to EN 12978

Electrical safety edges

For automatic gates, doors, public transport and industrial applications

Reliable, tried-and-tested as the best

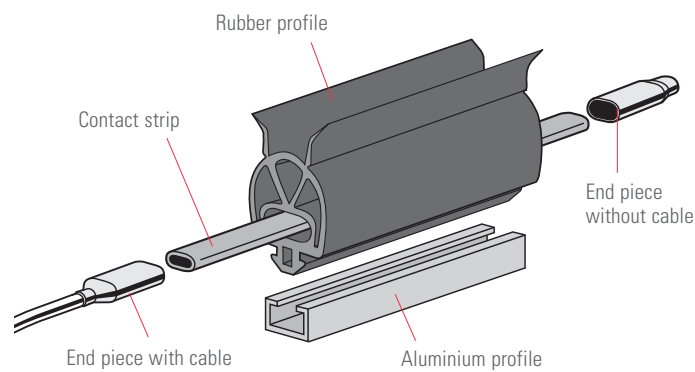
Electrical safety edges are used for protecting crushing and shearing points on automatic gates, doors, shutters and grills. Profiles of different sizes in combination with various switching devices safely and reliably protect people and objects according to the applicable standards.

Quick and easy to install

Our safety edges are based on the tried-and-tested principle of the contact strip drawn into the rubber profile. They are available both prefabricated at the factory and as system parts for self-assembly by the customer. The ingenious structure with separate contact strips can be relied upon for high reliability even in unusual applications and also facilitates retrofitting on site.



System overview



End pieces

Maximum flexibility

End pieces matching the contact strips are available with or without terminating resistor (standard 8.2 kOhm) and with various cable lengths, for example 0.5 m, 2 m, 4 m, 7 m and 10 m

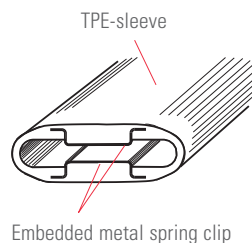


Contact strips – perfect sensors



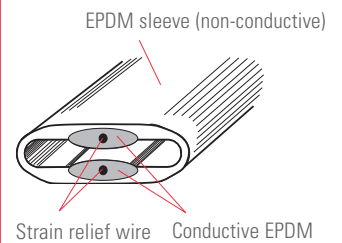
ENT-20: the all-rounder

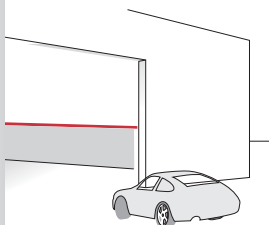
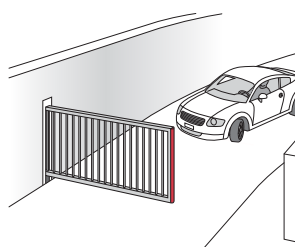
The tried-and-tested contact strip, with the best possible electrical properties



ENT-R: the specialist

This robust contact strip is especially suited for applications in moist conditions or with a large mechanical load





Rubber profiles with click-fit foot

Click-fit!

The easiest possible installation is a feature of ClickLine: Click and go. No need for time-consuming pushing in from the side. This means even damaged safety edges can be renewed quickly and effortlessly. The optimally designed profile shape also guarantees the greatest possible switching reliability.

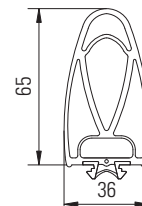
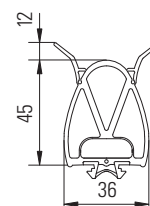
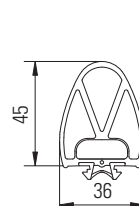
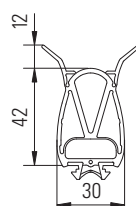
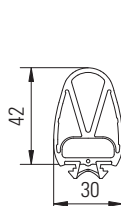
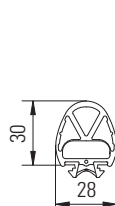


ClickLine profile types

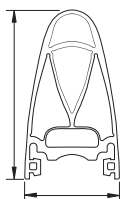
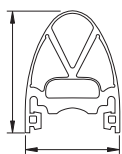
General technical data on rubber profiles and prefabricated safety edges can be found on the back page.

Dimensions

(Dimensions in mm, tolerances acc. to DIN ISO 3302-1, tl. E2)



Rubber profile	EPE025/029A0V0	EPE030/042A0V0	EPE030/042J2V0	EPE036/045A0V0	EPE036/045J2V0	EPE036/065A0V0
Article no.	210736	210751	210752	210760	210761	210764
Packing unit	50 m	50 m	50 m	25 m	25 m	25 m
Aluminium rail (max. length 6 m)	AP-5	AP-5	AP-5	AP-8	AP-8	AP-8
Safety edges (prefabricated)	ELE025/029A0Vx	ELE030/042A0Vx	ELE030/042J2Vx	ELE036/045A0Vx	ELE036/045J2Vx	ELE025/029A0V0
Activation distance	7 mm	6 mm	10 mm	10 mm	15 mm	10 mm
Switch point	70 N	60 N	100 N	50 N	90 N	110 N
Overtravel*						
250 N	8 mm	18 mm	5 mm	21 mm	17 mm	21 mm
400 N	10 mm	20 mm	14 mm	22 mm	20 mm	25 mm



Rubber profiles with standard mounting foot

The tried-and-tested, reliable profile family

StandardLine offers the widest range of contours for all kinds of applications. We will be happy to present additional versions on request.

EPDM, the robust material

All safety edges from Bircher Reglomat are made from EPDM. It is totally resistant to various materials and substances such as waste water, acetone, manganese sulphate, methyl alcohol, methyl phthalate as well as adequate resistance to acetaldehyde, methyl ethyl ketone, methyl chloride, cold lactic acid and other substances.



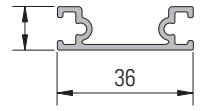
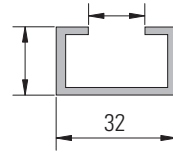
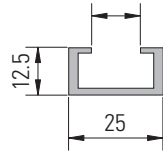
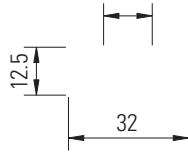
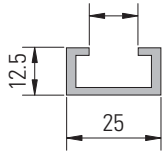
StandardLine profile types

General technical data on rubber profiles and prefabricated safety edges can be found on the back page.

Dimensions

(Dimensions in mm, tolerances acc. to DIN ISO 3302-1, tl. E2)

Rubber profile	EPE025/020A0K0	EPE025/029A0L0	EPE025/029A0K0	EPE025/040A0K0	EPE036/040A0D0	EPE036/060A0D0
Article no.	210732	210735	210733	210746	210753	210762
Packing unit	50 m	50 m	50 m	50 m	50 m	25 m
Aluminium rail (max. length 6 m)	AP-5	AP-7	AP-5	AP-5	AP-4	AP-4
Safety edges (prefabricated)	ELE025/020A0K0	ELE025/029A0L0	ELE025/029A0K0	ELE025/040A0K0	ELE036/040A0D0	ELE036/060A0D0
Activation distance	3 mm	7 mm	7 mm	4 mm	9 mm	5 mm
Switch point	70 N	80 N	80 N	70 N	90 N	90 N
Overtravel*						
250 N	2 mm	6 mm	6 mm	9 mm	8 mm	13 mm
400 N	4 mm	10 mm	10 mm	12 mm	16 mm	30 mm



Order details

Order details for prefabricated safety edges



ELE040/080A0J	0	/	1	/	2500	/	2
Type See tables ClickLine → pg. 4 CoverLine → pg. 5 StandardLine → pg. 6	Contact strip 0 = ENT-20 2 = ENT-R		End piece 2, aluminium rail 1 = 8k2 resistor, with aluminium 2 = Cable, with aluminium 3 = Special, with aluminium 4 = 8k2 resistor, without aluminium 5 = Cable, without aluminium 6 = Special, without aluminium		Length Length of edge [mm]		Cable Length [m]

Order details for prefabricated contact strips


ENT-20	/	1	/	2500	/	2
Type ENT-20 ENT-R		End piece 2 4 = 8k2 resistor 5 = Cable 6 = Special		Length Length of strip [mm]		Cable Length [m]

Order details for components for self-assembly










Contact strip

Type	25 m roll	50 m roll	100 m roll	
ENT-20	ENT-20/25 210708	ENT-20/50 210710	ENT-20/100 210706	
ENT-R	ENT-R/25 238947	ENT-R/50 210718	ENT-R/100 210715	

End pieces

Type	without	1k2	8k2	Diode	
Resist.	ENEH-0 210626	ENEH-1 210627	ENEH-8 210642	ENEH-D 210643	
Type	0.5 m	2 m	4 m	7 m	10 m
Cable	ENEH-K05 210649	ENEH-K2 210661	ENEH-K4 210670	ENEH-K7 210673	ENEH-K10 210654

Accessories / tools

210624	EN-DS	Sealing plug for arcing chamber, bag of 10	
210622	EN-DL	Sealing plug with hole for cable, bag of 10	
210616	ENA-10	Terminating band for rubber profile, 10 m roll	
xxxxx	EN-C29	End cap 29	
210621	EN-C60	End cap 60	
210964	ES-BD	Sealing compound for profile seal, bag with strips (sufficient for about 50 edges)	
211010	ES-KLEBER	Contact adhesive for sealing plugs, 20 g tube	
211739	ES-PRESS	Pliers with jaws, bag of 1 (for pressing the end pieces onto the contact strips)	
212876	GUMMI-SCHERE	Profile cutters, bag of 1 (for cutting a rubber profile)	

Supplementary products

S-Line

Electrical miniature safety edge system for narrow edges, crushing and shearing points.
The specialised rubber profiles are available on request.



Technical data

ENT-20 contact strips

Dimensions (max.)	7.5 × 19 mm
Operating temperature	–25°C to +60°C
Storage temperature	–25°C to +70°C
Material	TPE
Contact material	Nickel-plated bronze
Current (min. / max.)	1 mA / 1 A
Max. voltage	42 VADC
Resistance per unit length	0.5 Ohm/m
Contact resistance	< 10 Ohm
Response power	approx. 10 N (with test object ø 20 mm)
Contact travel	approx. 1 mm
Switching frequency	>100'000 (with test object ø 80 mm)

ENT-R contact strips

Dimensions (max.)	7.5 × 19 mm
Operating temperature	–25°C to +60°C
Storage temperature	–40°C to +80°C
Material	EPDM
Contact material	Conductive EPDM
Current (min. / max.)	1 mA / 100 mA
Max. voltage	30 VADC
Resistance per unit length	< 2 Ohm/m
Contact resistance	typ. < 200 ohm, max. < 500 Ohm
Response power	approx. 5 N (with test object ø 20 mm)
Contact travel	approx. 1 mm
Switching frequency	>100'000 (with test object ø 80 mm)

Prefabricated safety edges

Temperature range	–20°C to +55°C
Max. length	6 m (longer lengths on request)
Insulating strength	1500 V AC
Max. load capacity	500 N
Dead zone	20 mm (ELE040/105A0J2: 0 mm)
Switching frequency	>10'000 (with test object ø 80 mm)
Connection cable	Double-jacketed cable, PVC, ø 4.7 mm, litz wires 2 x 0.34 mm², min. bending radius 10 mm, non-detachable
Protection class	IP 65
Standards conformity	EN 12978, EN 1760-2

Note

Technical details and recommendations concerning our products are based on experience and are an aid for the orientation of the user. Details stated in our brochures and data sheets do not guarantee special properties of the products. This does not apply to special product properties confirmed in writing or individually on a case-by-case basis. Subject to technical alterations.

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