

## S-Line

Miniature safety edge system  
for automatic doors, barriers,  
public transport and transport/  
emergency vehicles

**Small, robust, suitable for self-assembly**

- Excellent mechanical load capacity, resistant to knocks and kinks
- Can be discreetly integrated thanks to slim design
- Excellent insulation and protection against moisture penetration
- Conformity acc. to EN 12978

# S-Line

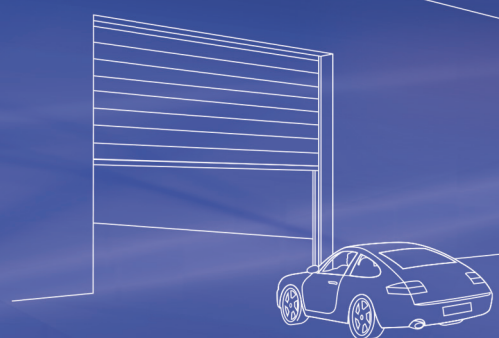
## For automatic doors, barriers and vehicles

### Excellent safety levels with compact dimensions

S-Line safety edges protect crushing and shearing points on doors and moving machine parts with a wide range of profile sizes and the corresponding switching devices. From contact strips in a glueable rubber profile without overtravel to the miniature safety edge with click-fit foot, they are all suitable for safety applications in accordance with EN ISO 13856-2. The S-Line system is extremely easy to install.

### Prefabricated or self-assembly

S-Line safety edges are based on the tried-and-tested principle of the contact strip drawn into the rubber profile. They are available both assembled at the factory and as individual components for self-assembly by the customer.

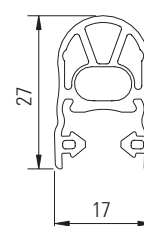
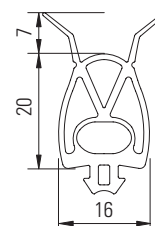
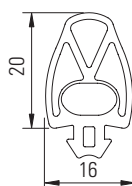
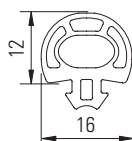
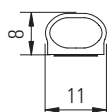


## S-Line profile types

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

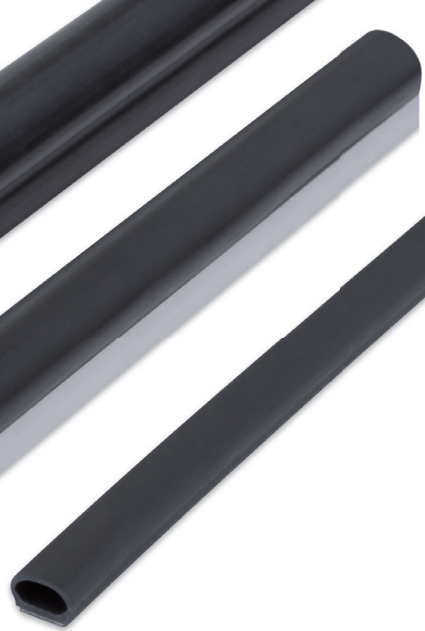
### Dimensions

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



Rubber profile	EPT011/008A0W	EPE016/012A0V	EPE016/020A0V	EPE016/020J2V	EPE016/026A0T
Article no.	210858	210728	263674	210729	355064
Packaging	50 m (roll)	50 m (box)	50 m (box)	50 m (box)	50 m (box)
Aluminium rail (max. length 6 m)	not necessary (self-adhesive)	AP-S	AP-S	AP-S	AP-G2
End cap	ENA-10	ENA-10	ENA-10	ENA-10	EN-C26
Safety edges <sup>1)</sup>	ELT011/008A0Wx	ELE016/012A0Vx	ELE016/020A0Vx	ELE016/020J2Vx	ELE016/026A0Tx
Response travel <sup>2)</sup>	2 mm	5 mm	6 mm	5 mm	3 mm
Response power <sup>2)</sup>	< 150 N	< 150 N	80 N	80 N	55 N
Overtravel <sup>2)</sup> 250 N 400 N	0 mm 0 mm	1 mm 2 mm	5 mm 6 mm	5 mm 6 mm	4 mm 6 mm

<sup>1)</sup>assembled with ENT-7 <sup>2)</sup>acc. to EN ISO 13856-2, temp. 23°C, test object ø 80 mm, measuring point C3

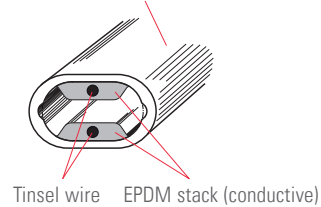


## Contact strips and aluminium rails

### ENT-7: small and robust

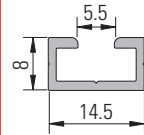
Resistant to knocks, kinks and water vapour

EPDM sleeve (non-conductive)

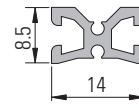


### The right rail for every profile

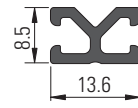
Extremely robust and available up to a length of 6 m



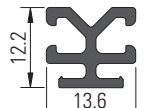
**AP-S**  
Aluminium  
Article no. 209599



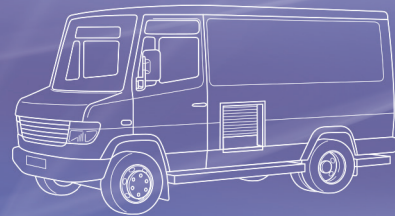
**AP-G2**  
Aluminium  
Article no. 364286



**PP-G2**  
Plastic  
Article no. 244426



**PP-G3**  
Plastic  
Article no. 263734



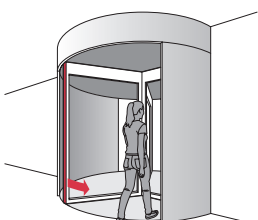
## Reliable in every application

### Situation

Revolving door

### Solution

The vertically mounted S-Line safety edges provide reliable protection against trapping and crushing in the door panels. S-Line is combined with Merkur 2 microwave motion detectors for activation and UniScan active infrared presence detectors as collision protection to form a comprehensive overall solution.

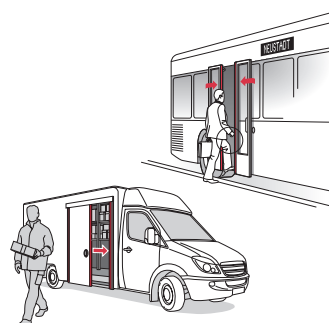


### Situation

Bus and train doors / sliding door on transporter

### Solution

When combined with a switching device, a system of S-Line safety edges provides reliable pinching protection at the primary and secondary closing edges of the door. Thanks to its slim design, the S-Line fits discreetly into the application area.

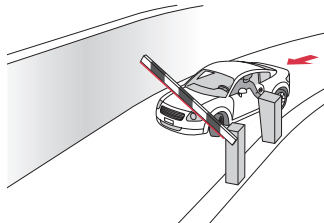


### Situation

Barrier

### Solution

The S-Line safety edge prevents injuries or vehicle damage as the barrier comes down. In addition, the ProLoop2 loop detector controls the opening and closing of the barriers and the activation of parking ticket dispensers.

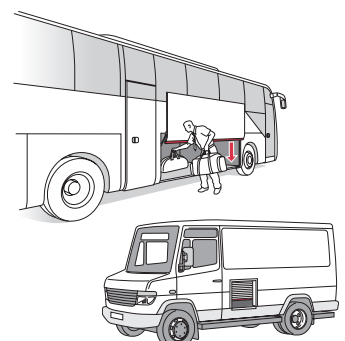


### Situation

Luggage compartment door on coach / lifting door on transporters for valuables

### Solution

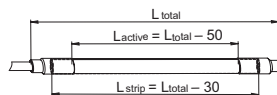
S-Line safety edges provide effective protection against injuries or damage on vehicle doors, ensuring that vehicles can be loaded and unloaded safely.



# Ordering information

## Ordering information for assembled safety edges

<b>ELE016/012A0V</b>	<b>3</b>	<b>1</b>	<b>2500</b>	<b>2</b>	<b>8K</b>
<b>Type</b> See overview on page 2	<b>Contact strip</b> 3 = ENT-7	<b>Profile ends</b> 1 = 8k2 resistor, with aluminium 2 = 2 cables, with aluminium 4 = 8k2 resistor, without aluminium 5 = 2 cables, without aluminium	<b>Length</b> Length of safety edge [mm]	<b>Cable resistor</b> Length [m] / (8K) <b>left</b>	<b>Cable resistor</b> Length [m] / (8K) <b>right</b>



## Ordering information for assembled contact strips

<b>ENT-7</b>	<b>4</b>	<b>2500</b>	<b>2</b>	<b>8K</b>
<b>Type</b> ENT-7	<b>End piece 2</b> 4 = 8k2 resistor, cable 5 = 2 cables 6 = End piece without resistor	<b>Length</b> "L total" of the strip [mm]	<b>Cable resistor</b> Length [m] / (8K) <b>left</b>	<b>Cable resistor</b> Length [m] / (8K) <b>right</b>

## Ordering information for components for self-assembly

### Contact strips

Type	25 m roll	50 m roll	100 m roll
<b>ENT-7</b>	ENT-7/25 <b>244419</b>	ENT-7/50 <b>244421</b>	ENT-7/100 <b>244422</b>

### End pieces

Type	without	8k2
<b>Resist.</b>	ENES-0 <b>210680</b>	ENES-8 <b>210681</b>

Type	0.5 m	2 m	4 m	7 m	10 m
<b>Cable</b>	ENES-K05 <b>210682</b>	ENES-K2 <b>210684</b>	ENES-K4 <b>210691</b>	ENES-K7 <b>210692</b>	ENES-K10 <b>210683</b>

### Accessories / tools

<b>209264</b>	<b>ENS-DS</b>	Sealing plug for arcing chamber, bag of 50	
<b>209265</b>	<b>ENS-DL</b>	Sealing plug with hole for cable, bag of 50	
<b>209263</b>	<b>ENSC</b>	Standard end piece for EPE profiles, bag of 50	
<b>210616</b>	<b>ENA-10</b>	Terminating band for rubber profile, 10 m roll	
<b>363025</b>	<b>EN-C26</b>	End cap for rubber profile EPE016/026x	
<b>210964</b>	<b>ES-BD</b>	Sealing compound for profile seal, box with strips (sufficient for about 50 edges)	
<b>211010</b>	<b>ES-KLEBER</b>	Contact adhesive for sealing plugs / end caps, 20 g tube	
<b>212001</b>	<b>ESS-PRESS</b>	Pliers with jaws, box of 1 (for pressing the end pieces onto the contact strips)	
<b>212876</b>	<b>GUMMI-SCHERE</b>	Profile cutters, box of 1 (for cutting a rubber profile)	
<b>210695</b>	<b>ENS-A12</b>	Stopper piece, height: 12 mm, bag of 10	
<b>210696</b>	<b>ENS-A20</b>	Stopper piece, height: 20 mm, bag of 10	
<b>213967</b>	<b>SPK-APD</b>	Junction box to connect the cable from the end piece with a helix cable	
<b>213966</b>	<b>SPK-3</b>	Helix cable, Ø 6 mm, 4 litz wires of 0.5 mm², max. extension length 3 m or 5 m	
<b>239889</b>	<b>SPK-5</b>		

# Technical data

## Assembled safety edges

<b>Temperature range</b>	-20°C to +55°C
<b>Max. length</b>	6 m (longer lengths on request)
<b>Insulating strength</b>	1500 V AC
<b>Max. load capacity</b>	500 N
<b>Dead zone</b>	20 mm
<b>Switching frequency</b>	>100,000 (with test object ø 80 mm)
<b>Connection cable</b>	Double-jacketed cable, PVC, ø 4.7 mm, litz wires 2 x 0.34 mm², bending radius 10 mm, non-detachable
<b>Protection class</b>	IP65
<b>Standards conformity</b>	EN 12978, EN ISO 13856-2

## ENT-7 contact strip

<b>Dimensions (max.)</b>	4.3 x 7.2 mm (H x W)
<b>Operating temperature</b>	-25°C to +60°C
<b>Storage temperature</b>	-40°C to +80°C
<b>Material</b>	EPDM
<b>Contact material</b>	Conductive EPDM
<b>Current (min / max)</b>	1 mA / 100 mA
<b>Max. voltage</b>	30 VADC
<b>Resistance per unit length</b>	< 2 ohm/m
<b>Contact resistance</b>	Typ. < 200 ohm, max. < 500 ohm
<b>Response power</b>	Approx. 5 N (with test object ø 20 mm)
<b>Contact travel</b>	Approx. 1 mm
<b>Switching frequency</b>	>100,000 (with test object ø 80 mm)

S-Line safety edges are combined with a safety switching device to form a certified system. You can find information to help you choose the right switching device in the "Switching devices" brochure, or simply get in touch with us directly.

### 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 by us in writing or individually. Subject to technical alterations.

## BBC Bircher Smart Access

Wiesengasse 20  
8222 Beringen  
Switzerland  
Phone +41 52 687 11 11  
info@bircher.com  
bircher.com