



## ***SensIQ contact*** Safety Contact Edge

Certified according to ECE-R 118.03 (bus) and DIN EN 45545-2 (train)

Made completely out of EPDM with IP 68 / 69K

### **Door-closing systems that think ahead** Anti-trap door protection for buses and trains

The ***SensIQ contact*** safety contact edge detects objects or persons caught in power-operated vehicle doors. Essential safety equipment for use in entry and exit doors.

#### **How it works**

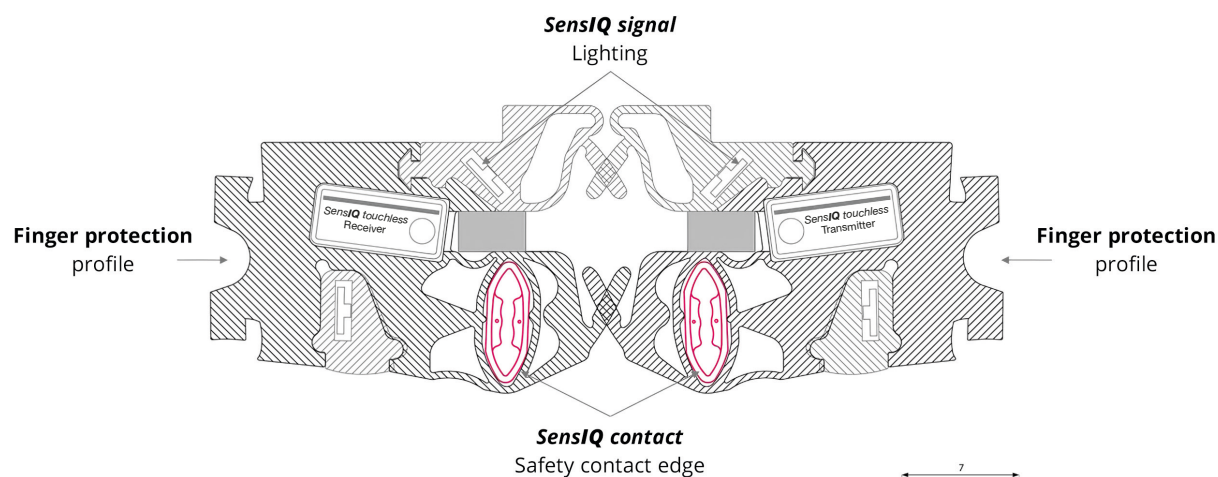
When a person or object comes in contact with the safety contact edge, a switching pulse is generated that causes the door to remain open or to reverse when in the process of closing.



**Material Solutions** | Shaping ideas.

[www.hubner-group.com](http://www.hubner-group.com)

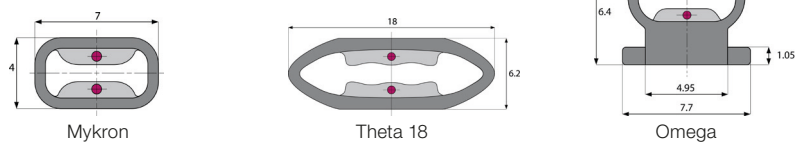
Possible Comprehensive Solution



Technical Data

Dimensions

Height and width in mm	7.0 x 4.0	18.0 x 6.2	7.7 x 6.4
Length in mm	Minimum: 200		
Installation position	As required		



Material properties

Material	EPDM, halogen-free		
Shore A hardness	65° ± 5	65° ± 5	65° ± 5

Contact switching properties

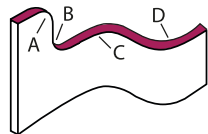
Operating cycles	> 10 <sup>6</sup>	> 10 <sup>6</sup>	> 10 <sup>6</sup>
Contact distance	1.1 mm	1.8 mm	1.1 mm

Measured contact force with a test speed of 10 mm/s

Temperature	-25°C +20°C +55°C	-25°C +20°C +55°C	-25°C +20°C +55°C
Test object Ø = 20mm	12N 5N 4N	4N 3N 3N	13N 5N 4N
Test object Ø = 80mm	79N 35N 40N	21N 11N 9N	87N 38N 44N

Mechanical operating conditions

Operating temperature	from -40°C to +100°C		
Bend radius	A > 110 mm	A > 150 mm	A > 35 mm
	B > 85 mm	B > 170 mm	B > 35 mm
	C > 25 mm	C > 120 mm	C > 35 mm
	D > 25 mm	D > 120 mm	D > 35 mm
Kink angle	Not possible		
Effective distance for bend radiuses	12 mm from both ends	15 mm from both ends	16 mm from both ends



## Electrical operating conditions

Terminating resistor Tolerance $\pm 5\%$	1.2 k $\Omega$ / 8.2 k $\Omega$	1.2 k $\Omega$ / 8.2 k $\Omega$	1.2 k $\Omega$ / 8.2 k $\Omega$
	More on request		
	Also available without terminating resistor		
Power	Max. 250 mW		
Voltage	Max. 30 V DC		
Current	Max. 10 mA		

## Cable

Material	EPDM, halogen-free		
Dimensions	Diameter (D) = 4 mm, 2 x 0.35 mm <sup>2</sup>		
Cable laying	No tension		
Cable tensile load	Max. 30 N – 1 min.	Max. 30 N – 1 min.	Max. 30 N – 1 min.
Static bend radius	4 x D		

## Testing and certifications

Railway standard	DIN EN 14752:2015	Fulfilled
Railway fire safety	DIN EN 45545-2 HL3 §4.3.2, interior	Passed
Bus standard	ECE-R 107	Fulfilled
Bus fire safety	ECE-R 118/03	Passed
Equipment protection	IP68 / IP69K	Passed
Salt spray test	DIN EN ISO 9227 NSS	Passed
Machinery safety	Based on EN 1760-2:2001 + A1:2009	

## How to integrate the *SensIQ contact* safety contact edge in your door-closing system:

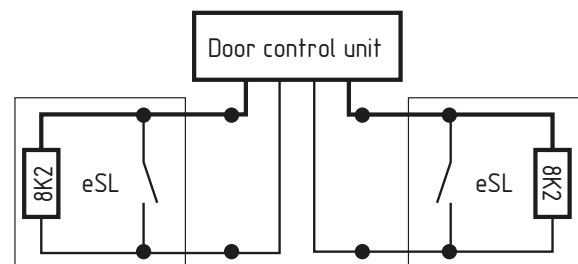
### Installation possibilities for the *SensIQ contact*

- Integrated in finger protection profiles
- Can also be integrated in step treads

### Adding a *SensIQ contact* to a finger protection profile provides the following benefits:

- Anti-trap protection directly at the door's leading edge
- Suitable for straight, curved and angled doors
- A maintenance-free system with functional monitoring
- Highly sensitive detection system
- Made completely of EPDM
- Tangential gating

## Wiring Diagram



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