

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

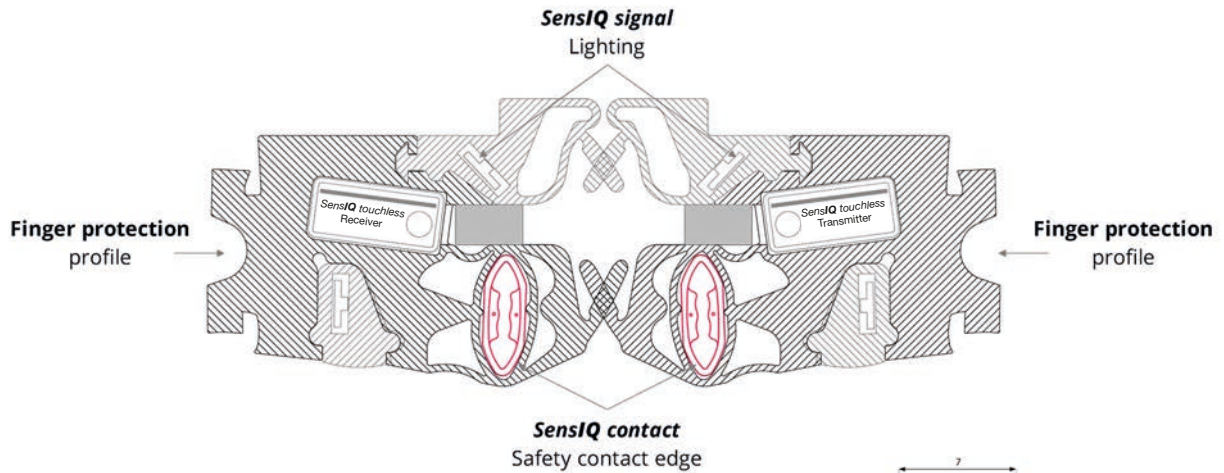
When a person or object comes in contact with the safety contact edge, a switching pulse is generated that causes the door to remain open or to reverse when in the process of closing.

Material Solutions | Shaping ideas.

www.hubner-group.com

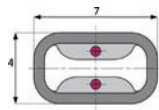


Possible Comprehensive Solution

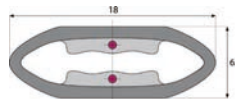


Technical Data

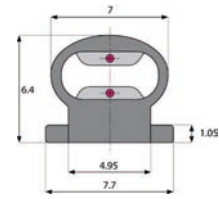
Dimensions



Mykron



Theta 18



Omega

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 ⁶	> 10 ⁶	> 10 ⁶
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 Ω / 8.2 k Ω	1.2 k Ω / 8.2 k Ω	1.2 k Ω / 8.2 k Ω
	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 ²		
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:

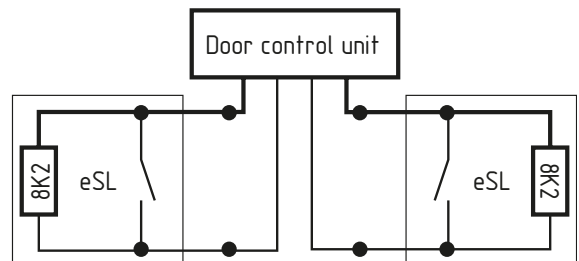
Installation possibilities for the *SensIQ* contact

- 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





www.gummi-welz.com