



SensIQ contact **Safety Contact Edges**

Certified according to ECE-R 118.03 (bus) and DIN EN 45545-2 (rail)
Made completely out of EPDM. Protection class IP 68 / 69K @60°C

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

SensIQ contact safety contact edges detect objects or persons caught in power-operated vehicle doors. This is essential safety equipment to protect passengers entering and exiting vehicles.

How it works

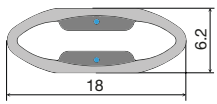
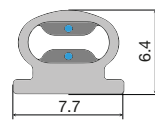
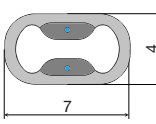
SensIQ contact safety contact edges are installed inside of door seal rubber profiles. When a person or object comes in contact with the safety contact edge, a switching impulse is generated that causes the door to remain open or to reverse when in the process of closing.

Material Solutions | Shaping ideas.

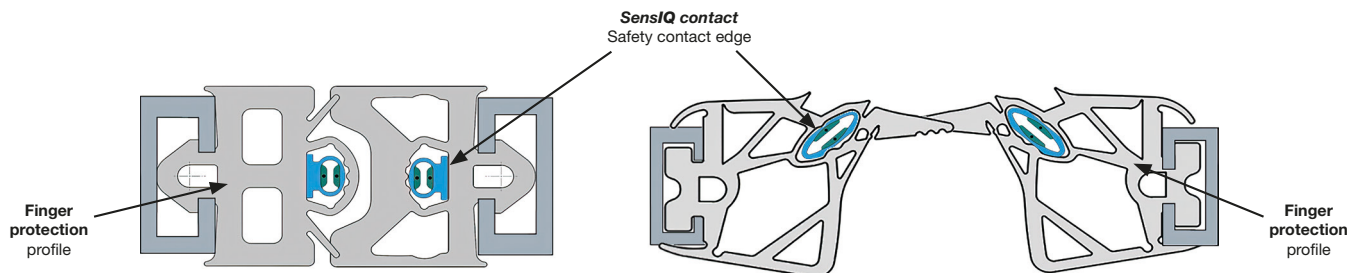
www.hubner-group.com



Available Types

Types		NEW 	NEW 		
	<i>SensIQ contact Theta 18x6.2</i>	<i>SensIQ contact Theta 18x5.8</i>	<i>SensIQ contact Theta 15</i>	<i>SensIQ contact Omega</i>	<i>SensIQ contact Mykron</i>
Dimensions [mm]	18 x 6.2	18 x 5.8	15 x 5	7.7 x 6.4	7 x 4

Application Examples



Customer benefits

- *SensIQ contact* safety edges for maintenance-free, self-monitoring door safety systems
- Highly sensitive pinch detection with low trigger forces and short contact distances
- Field-proven product from a major manufacturer with decades of experience
- A halogen-free solution with flush-end molds for space-saving design
- EPDM construction provides great material compatibility
- Can be used in most standard tactile anti-trap protection profiles used in public transport
- Highest fire protection rating: EN45545-2 HL3 and UN ECE-R 118/03
- Compliance with UN ECE-R 107 and DIN EN 14752 in combination with a tuned door system
- Reliable operation in the full temperature range from -25°C to 80°C
- Suitable for the installation on straight, curved and angled doors
- Available in lengths from 600 mm to 10.000 mm
- Tested to withstand more than 1 million switch cycles
- Water resistance protection class: IP 68 / 69K_{@60°C}
- Available end resistors: 1.2kΩ, 8.2kΩ, 2.2kΩ, no terminating resistor, others per request

Contact us for more information:

COLIN CHAVIGNY

Head of Sales Rail (Material Solutions)

Tel. +49 561 998-1107

Colin.Chavigny@hubner-group.com



Green signal illumination:
SensIQ signal indicates open or opening doors



Red signal illumination:
SensIQ signal indicates closing or closed doors

LED Signaling System: *SensIQ* signal

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

SensIQ signal increases passenger safety and comfort by providing a visual indication when vehicle doors are opening or closing.

How it works

SensIQ signal is an LED-based optical signal indicator that informs passengers about the status of vehicle door operation (e.g. red signal for closing/moving doors or green signal for opening doors). In combination with other *SensIQ* products (e.g. *SensIQ* contact, *SensIQ* touchless), doors blocked by an object or person can be indicated.

The LED-based light source provides operators with numerous signaling possibilities. Colors can be adjusted as required. Retrofitting is possible for all types of doors.



Material Solutions | Shaping ideas.

www.hubner-group.com

Passenger guidance and illumination examples

Green light:	Shows position of doors to passengers	Please enter
Red flashing light:	Indicates closing doors	Do not enter
Red constant light:	Indicates that doors are closed	Do not enter
Yellow flashing lights:	Indicates passenger congestion in the entrance area	Doors can't close
While doors are not active:	Illumination can feature light accents in your company's colors	

Customer benefits

- Light-assisted passenger guidance to improve passenger flow and to reduce downtimes
- Visual door closing warning reduces the risk of accidents
- Door closing status indication on the inside and outside of the vehicle
- Colors can be adjusted individually towards the inside and outside of the vehicle
- Various lengths are available to cover the full length of the leading edge
- System is integrated into the door's leading edge
- Signaling takes place directly at the door's leading edge
- Retrofitting of any door is possible
- Full RGB Spectrum LEDs allow adjustment for any color
- Suitable for straight, curved and angled doors

Current version

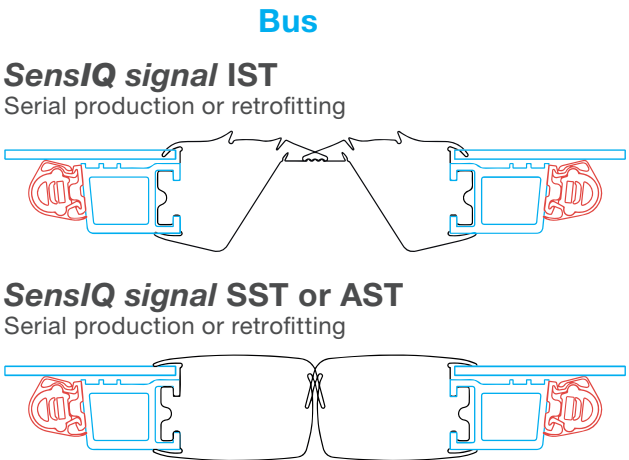
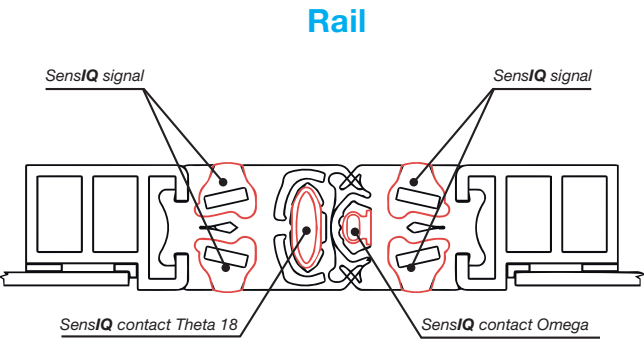
SensIQ signal Core: Light source based on LED strips
This is our tried-and-tested, high-luminosity system based on LED strips.

New version

HÜBNER will be expanding its portfolio to include the *SensIQ signal Pro* version.
The new *SensIQ signal Pro* variant will provide a variety of improvements:

- New, more even illumination in the signaling light strips for an upgraded look
- Easier installation and maintenance, with an extended product life
- Stronger anti-vandalism protection

Assembly examples





Customized elastomer product solutions

Customized Elastomer Solutions for High-Demand Applications in the Rail Sector

The HÜBNER Group has more than 70 years of experience in the development of customized elastomer product solutions to meet the most demanding requirements. As a leading supplier, HÜBNER also offers silicone seals for local transport applications. These rubber and silicone products provide protection, damping, sealing and insulation – from miniature precision parts to large heavy-duty seals.

Material development and simulation:

- HÜBNER has its own in-house material development department
- Over 400 different elastomer formulations are in use
- A wide range of both classic and special elastomers
- Specially designed to meet the specific requirements of the rail sector
- All products comply with national and international fire resistance and safety standards
- Formulations can be adapted to specific needs
- Offering high chemical and temperature resistance
- Fulfilling the highest mechanical and fire safety requirements



Material Solutions | Shaping ideas.

www.hubner-group.com



Elastomer profiles and frames:

- HÜBNER produces elastomer profiles with a wide range of features:
 - Cut-outs
 - Form-vulcanized corners
 - Pre-heated radii
- Profiles designed to fit different shapes and sizes of rail vehicles
- Rubber frames with injection-molded corners
- Connection of hollow chamber profiles and profiles of different cross-sections
- Highest mechanical resistance thanks to superior manufacturing

Contact us for more information:

COLIN CHAVIGNY

Head of Sales Rail (Material Solutions)

Tel. +49 561 998-1107

Colin.Chavigny@hubner-group.com