

- 1. Finger protection profile on the door's leading edge
- 2. Impact protection on the secondary closing edge
- 3. Foot protection edge
- 4. SensIQ touchless

Light curtain: SensIQ touchless

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

The Sens**IQ** touchless light curtain is a touchless safety system for monitoring the entry and exit areas of power-operated vehicle doors.

How it works

Through a combination of parallel and crossed infrared beams, the light curtain system monitors the passage area for any obstacles.

When one of these light beams is obstructed, a switching pulse is generated that causes the door to remain open or to reverse when in the process of closing. Persons and objects in the risk area are thus actively detected.



Material Solutions | Shaping ideas.

How to integrate the SensIQ touchless light curtain in your door-closing system:

Installation possibilities of SensIQ touchless

- Integrated in HSK aluminum profile
- Integrated in finger protection profile
- Integrated in an aluminum profile which can:
 - Be screwed onto the door panels
 - Be screwed into the portal (interior laterally to the door)
- All models can be retrofitted

The integration of SensIQ touchless in a finger protection profile provides the following benefits:

- Touchless anti-trap protection directly at the door's leading edge aluminium profile
- Interior space immediately in front of the door is completely accessible
- Suitable for straight, curved and angled doors
- Can be used on IST, AST, SST, FT, DFT, ST
- Cost reduction through elimination of installation parts
- Automatic testing function
- XOR output to driver
- Vandalism resistant

Possible integrated solution using SensIQ products



SensIQ touchless SST or AST



Technical Data

Dimensions

Model	RM46 - 32 beams	F	M46 - 12 beams	RM92 ·	16 beams		
Length in mm	1546		1178	1546			
		Othe	er lengths are possible				
Installation position	Along the door's vertical edge						
Material properties							
Housing material	Transparent polycarbonate						
LED properties							
Model			linear				
LED spacing in mm	46		92		92		
Placement of lowest beam in mm	24 (from bottom edge)						
Light type in nm			IR LED 950				
Switching properties							
Height of sensor area in mm	1426		1012		1380		
		Other se	ensor heights are possible	Э			
Mechanical operating conditions							
Operating temperature	-25°C to +70°C						
Storage temperature	-40°C to +80°C						
Electrical operating conditions							
Voltage	24 VDC Direct connection reverse polarity protected						
Current	< 100 mA RMS; < 200 mA Peak						
Signal control indicator	Red LED on transmitting and receiving edges						
Switching output	PNP - Max. 0.8 A, short-circuit proof						
Output function	Receiver: Unblanking, output active when IR light beam is not obstructed						
oupur function	Transmitter: Blanking, output passive if IR light beam is not obstructed						
Sensitivity setting	Fully automatic						
System control function	For each transmitter/receiver, a PNP-output (antivalent to each other)						
Testing and certifications							
Railway	DIN EN 14752:2015		Applicable clauses	fulfilled			
Fire & Smoke (train)	DIN EN 45545-2		Passed				
EMC & Environment (train)	DIN EN 50155:2017		In assessment				
Bus	ECE-R 107		Applicable clauses fulfilled				
Fire & Smoke (bus)	ECE-R 118/03		Passed				
EMV (bus)	ECE-R 10/05		In assessme	nt			
E1 (bus)			In assessme	nt			
Insensivity to ambient light	Under normal conditions, sunlight will not cause interference						
Vibration protection	Integrated						
Protection Class	IP67						

Wiring Diagram



	M8 plug			\frown			
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