



Model Number

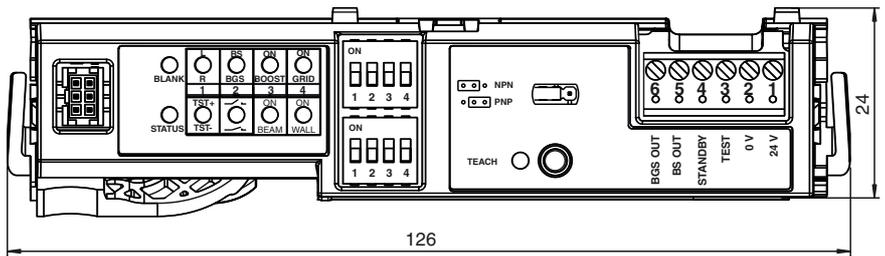
DoorScan Interface Set

Sensor module, interface

Features

- Sensor module for configurable DoorScan® presence sensor
- Multi-function interface with full operation
- Complete system supply for the entire system for one door
- Can also be used to supply the emitter and receiver modules with power
- Single button commissioning with automatic Teach-in function
- SIL 2, certified in accordance with DIN 18650/EN 16005
- Tool-free module mounting using snap-in mechanism
- Door transition cable to connect the sensor to the controller

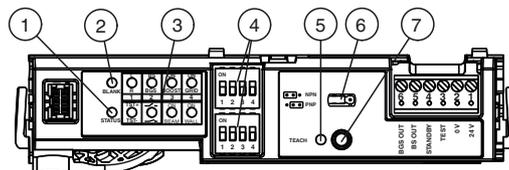
Dimensions



Electrical connection

1	BN	— 24V
2	BU	— 0V
3	GY	— TEST
4		— STANDBY
5	BK	— BS OUT
6	WH	— BGS OUT

Indicators/operating means



- | | |
|-------------------------------|--------------------|
| 1 STATUS LED red | 5 TEACH LED yellow |
| 2 BLANK LED green | 6 Jumper |
| 3 DIP LEDs green | 7 TEACH button |
| 4 DIP switches - rows 1 and 2 | |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical data**General specifications**

Operating mode	Background evaluation
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Functional safety related parameters

Safety Integrity Level (SIL)	SIL 2
Performance level (PL)	PL d
Category	Cat. 2
MTTF _d	2716 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	90 %

Indicators/operating means

Function indicator	Interface: Red LED: detection, excess gain, fault code Yellow LED: teach status Green LED: blank status Green LED: DIP switch status
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Electrical specifications

Operating voltage	U _B	24 V DC +/- 20 %
No-load supply current	I ₀	30 mA

Input

Test input	High active at U = 15 V DC to 30 V DC Low active at U = < 2 V DC
Control input	Standby active at U = 11 V DC at 30 V DC

Output

Switching type	Hinge edge light on Leading edge light on/dark on, switchable
Signal output	NPN , short-circuit protected
Switching voltage	max. 30 V DC
Switching current	max. 100 mA
Response time	≤ 52 ms ≤ 200 ms in boost operating mode

Ambient conditions

Ambient temperature	-30 ... 60 °C (-22 ... 140 °F)
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Mechanical specifications

Mounting height	max. 3500 mm
Degree of protection	IP54 (iwhen mounted)
Connection	plug strip , 6-pin Cable: screw terminal , 6-pin
Material	Cable sheathing: polyamide PA 6, black , Wall bracket: ABS
Cable	PUR, gray, 6-wire
Sheath diameter	approx. 4.8 mm
Bending radius	min. 48 mm
Length	L 5000 mm
Mass	approx. 140 g

General information

Scope of delivery	Sensor module, interface , Wall bracket , Screw kit , cord grip , cable , Cable sheathing , Hollow rivet
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Suitable series

Series	DoorScan®
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Compliance with standards and directives

Directive conformity	
Machinery Directive 2006/42/EC	EN 12978:2003+A1:2009 EN ISO 13849-1:2008 + AC:2009 EN 16005:2012 Chapter 4.6.8
EMC Directive 2004/108/EC	EN 61000-6-2:2005 EN 61000-6-3:2007+A1:2011
Standard conformity	
Standards	EN 61508-1:2010 DIN 18650-1:2010 Chapter 5.7.4 BS 7036-1:1996 Chapter 7.3.2 BS 7036-2:1996 Chapter 8.1

Approvals and certificates

CCC approval	CCC approval / marking not required for products rated ≤36 V
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Accessories**DoorScan Cable BS/BGS**

Connecting cable for transition from hinge side to leading edge side

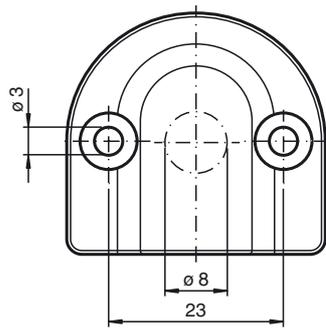
DoorScan Connection Cable 5p

Connecting cable with 5 plug-in connections for DoorScan®-I/-T/-R modules

Other suitable accessories can be found at www.pepperl-fuchs.com



Wall mount bracket



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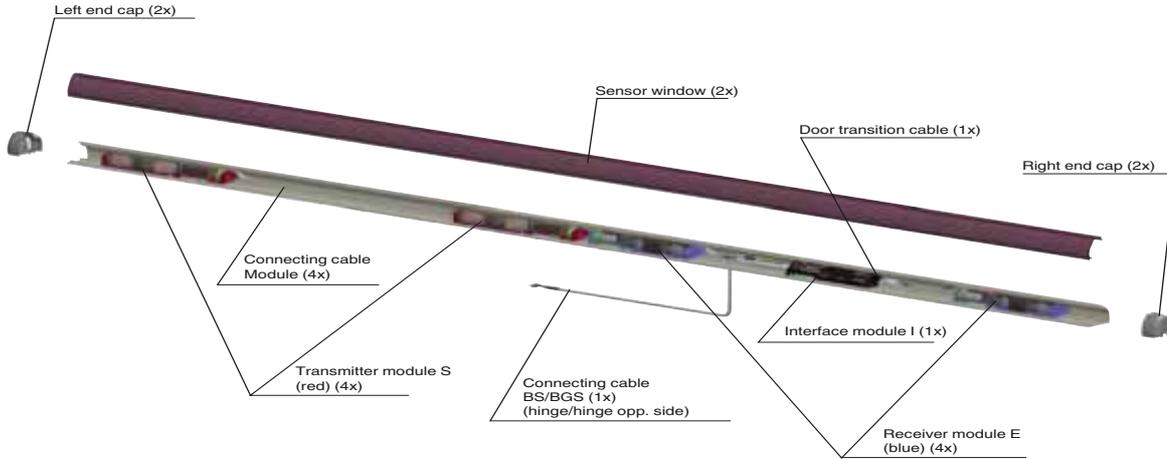
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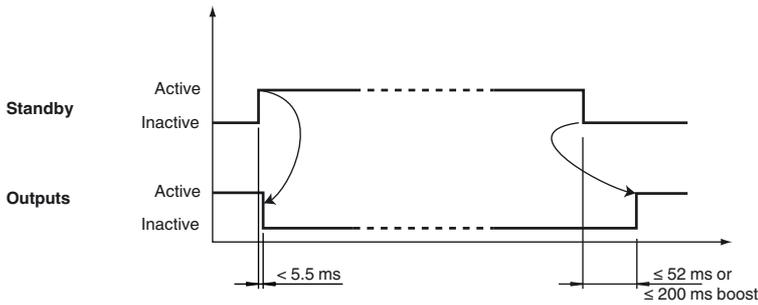
Additional Information

Layout of the sensor system for a door (hinge/leading edge side)



Standby

When the supply voltage is applied, the sensor is put into standby — the energy consumption is reduced to less than 80% in this state. Once the signal is deactivated, the sensor is immediately ready for operation and enables the signal outputs within 52 ms and/or 200 ms (in boost operating mode) if the detection field is free.



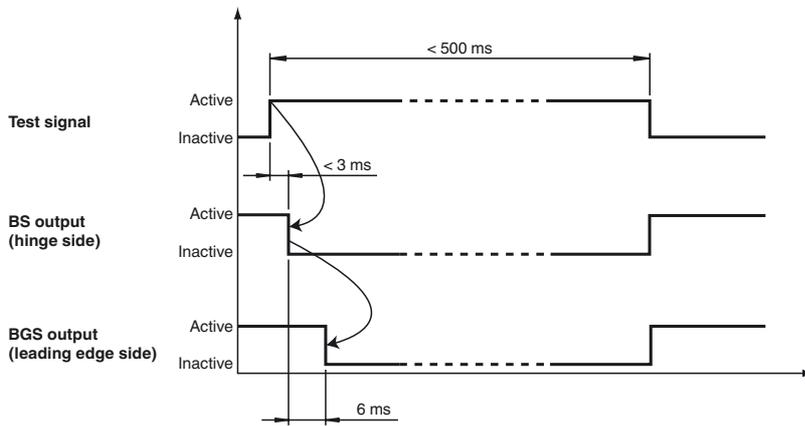
Test input circuit

Test Function	Test inactive	Test active	Interface DIP switch 1, bottom row
High active			ON Test at +24 V
Low active			OFF Test at 0 V
High inactive			OFF Test at 0 V
Low inactive			ON Test at +24 V

Test signal

The signal outputs enable short circuit detection. In order to do so, the outputs carry out a delayed shutoff from each other (see signal curve).

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Note!

The test signal must be in contact with the test input for at least 9 ms!
 The duration of the test signal must not exceed 0.5 s, otherwise this will deactivate the sensor.

Operating Modes

Boost operating mode

Activation with dark floors, even at high installation heights (increased sensitivity). In these cases, the response time of the sensor is increased from 50 ms to 200 ms. If necessary, the speed of the door must be adjusted to the response time.

Grid operating mode

Activation in the event of faults due to grating on the ground. Used where grating and shafts are present in the detection field.