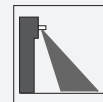




Sensor module, interface DoorScan Interface Set

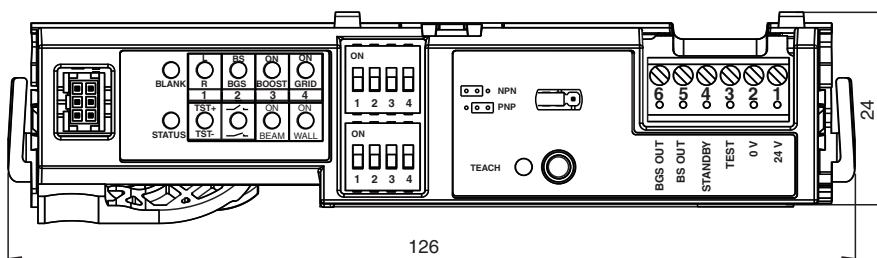


- Sensor module for configurable DoorScan® presence sensor
- Multi-function interface with full operation
- Complete system supply for the entire system for one door
- Can also be used to supply the emitter and receiver modules with power
- Single button commissioning with automatic Teach-in function
- 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

Replacement/extension sensor module for installation in the DoorScan® and TopScan sensor profile, multifunction interface module with door transition cable



Dimensions



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

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

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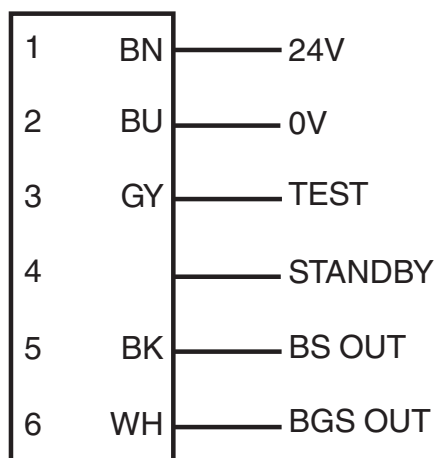
Singapore: +65 6779 9091
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PEPPERL+FUCHS

Technical Data

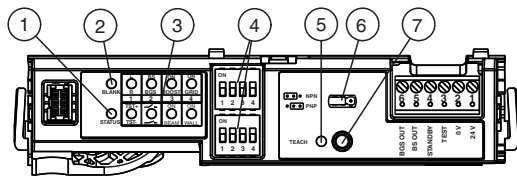
Test input	High active at U = 15 V DC to 30 V DC Low active at U = < 2 V DC	
Control input		Standby active at U = 11 V DC at 30 V DC
Output		
Switching type		Hinge edge light on Leading edge light on/dark on, switchable
Signal output		NPN , short-circuit protected
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Response time		≤ 52 ms ≤ 200 ms in boost operating mode
Conformity		
Functional safety		ISO 13849-1 ; EN 61508 part1-4
Product standard		EN 12978
Approvals and certificates		
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-30 ... 60 °C (-22 ... 140 °F)
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
Suitable series		
Series		DoorScan®

Connection Assignment



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Assembly



- 1 STATUS LED ret

2 BLANK LED green

3 DIP LEDs green

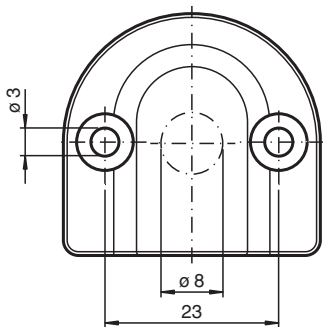
4 DIP switches - rows 1 and 2
- 5 TEACH LED yellow

6 Jumper

7 TEACH button

Mounting

Wall mount bracket



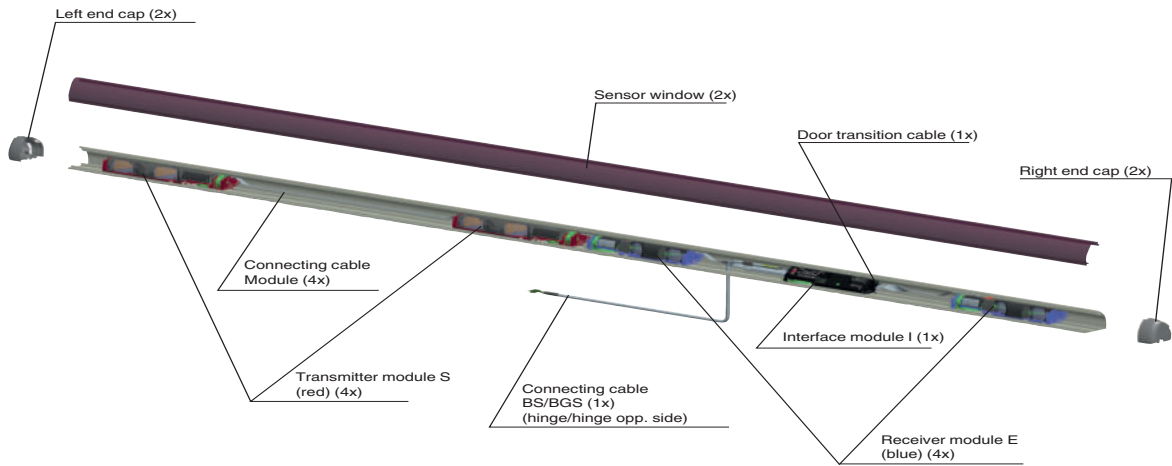
Accessories

	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

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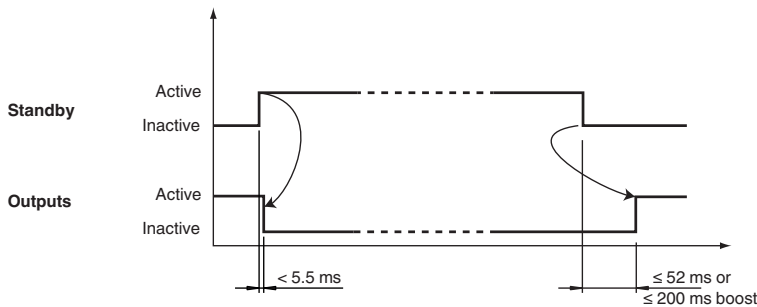
Additional Information

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

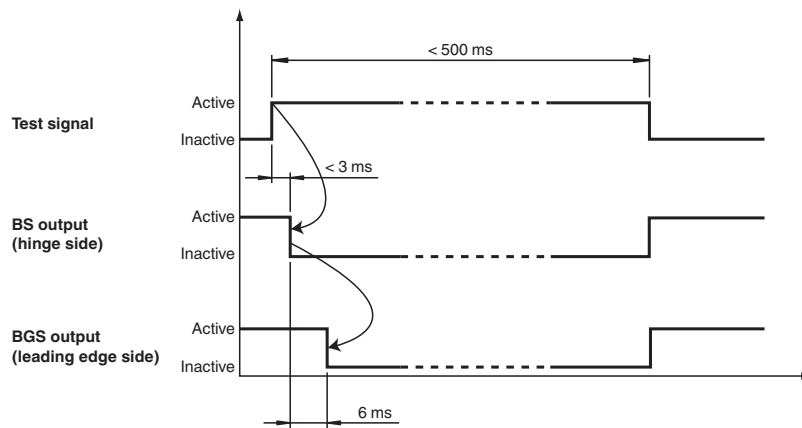
Test Function	Test inactive		Test active		Interface DIP switch 1, bottom row
High active					ON Test at +24 V
Low active					OFF Test at 0 V
High inactive					OFF Test at 0 V
Low inactive					ON Test at +24 V

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

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signal curve).



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.

Accessories

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