



Model Number

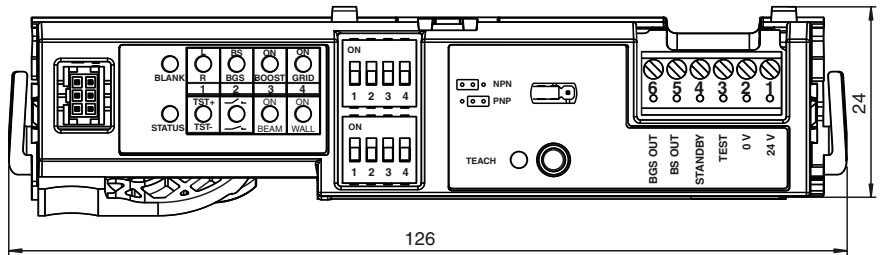
DoorScan Interface Set

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

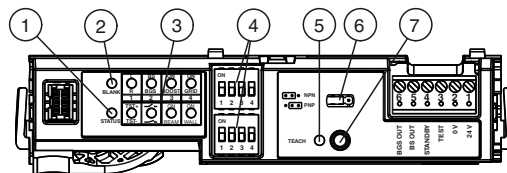
Dimensions



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 | |

Release date: 2019-08-26 14:31 Date of issue: 2019-08-26 299670_eng.xml

Technical data

General specifications

Operating mode Background evaluation

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

Electrical specifications

Operating voltage U_B 24 V DC +/- 20 %
 No-load supply current I₀ 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

Conformity

Functional safety ISO 13849-1 ; EN 61508 part1-4
 Product standard EN 12978

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®

Approvals and certificates

CCC approval CCC approval / marking not required for products rated ≤36 V

Accessories

DoorScan Cable BS/BGS

Connecting cable for transition from hinge side to leading edge side

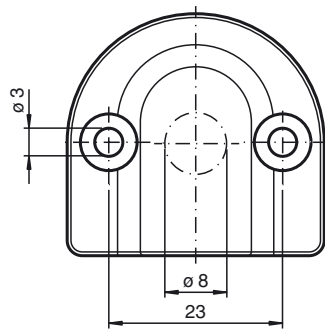
DoorScan Connection Cable 5p

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

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

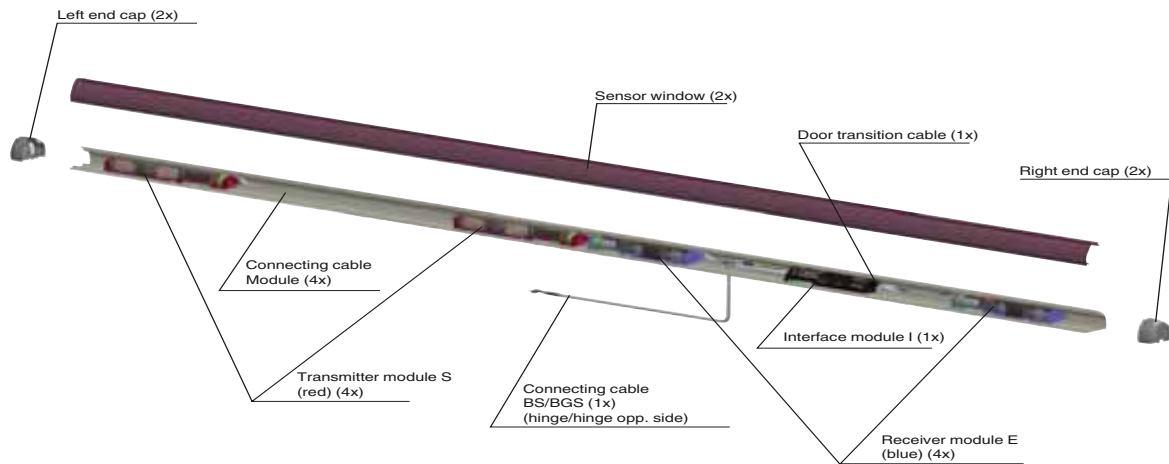
Release date: 2019-08-26 14:31 Date of issue: 2019-08-26 299670_eng.xml

Wall mount bracket



Additional Information

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



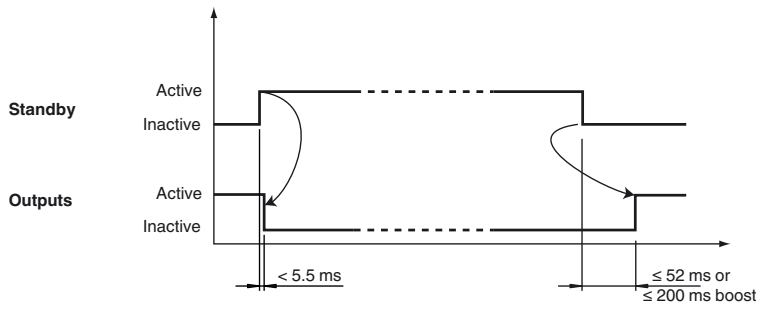
Standby

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

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

mode) if the detection field is free.

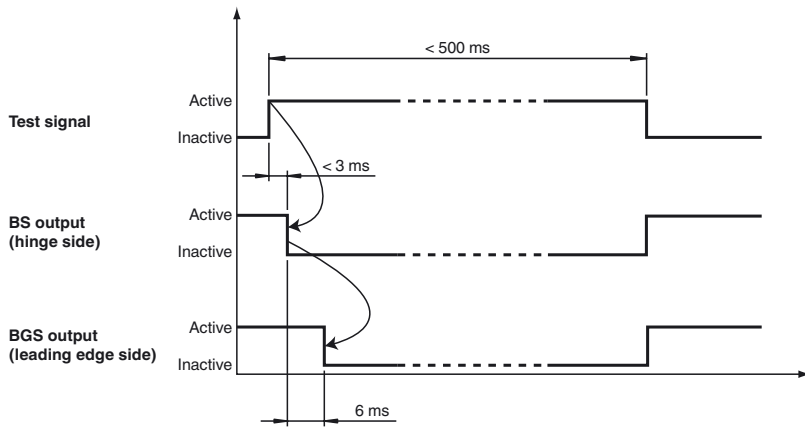


Test input circuit

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).



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.