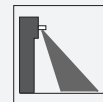




## Sensor module, receiver DoorScan-R

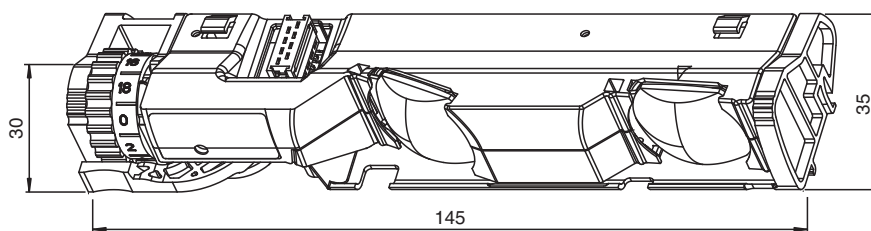


- Sensor module for configurable DoorScan® presence sensor
- Receiver module (R)
- Adjustment options for detection field and angle of inclination
- Tool-free module mounting using snap-in mechanism

Replacement/extension sensor module for installation in the DoorScan® and TopScan sensor profile, receiver module



### Dimensions



### Technical Data

#### General specifications

|                                   |                               |
|-----------------------------------|-------------------------------|
| Detection range min.              | 0 ... 1500 mm                 |
| Detection range max.              | 0 ... 3500 mm                 |
| Light source                      | IRET                          |
| Light type                        | modulated infrared light      |
| Black/White difference (6 %/90 %) | < 2 % at 2000 mm sensor range |
| Operating mode                    | Background evaluation         |

#### Functional safety related parameters

|                                |        |
|--------------------------------|--------|
| Safety Integrity Level (SIL)   | SIL 2  |
| Performance level (PL)         | PL d   |
| Category                       | Cat. 2 |
| MTTF <sub>d</sub>              | 383 a  |
| Mission Time (T <sub>M</sub> ) | 20 a   |
| Diagnostic Coverage (DC)       | 90 %   |

#### Indicators/operating means

|                    |                                                       |
|--------------------|-------------------------------------------------------|
| Function indicator | Receiver: Red LED: detection, excess gain, fault code |
|--------------------|-------------------------------------------------------|

Release date: 2020-03-24 Date of issue: 2020-10-08 Filename: 299667\_eng.pdf

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

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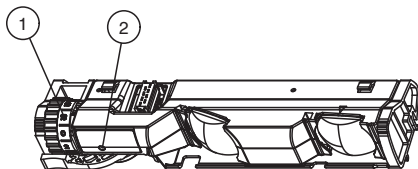
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 **PEPPERL+FUCHS**

Technical Data

|                                   |       |                                                                    |
|-----------------------------------|-------|--------------------------------------------------------------------|
| <b>Electrical specifications</b>  |       |                                                                    |
| No-load supply current            | $I_0$ | 30 mA                                                              |
| <b>Conformity</b>                 |       |                                                                    |
| Functional safety                 |       | ISO 13849-1 ; EN 61508 part1-4                                     |
| Product standard                  |       | EN 12978                                                           |
| <b>Approvals and certificates</b> |       |                                                                    |
| CCC approval                      |       | CCC approval / marking not required for products rated $\leq 36$ V |
| <b>Ambient conditions</b>         |       |                                                                    |
| Ambient temperature               |       | -30 ... 60 °C (-22 ... 140 °F)                                     |
| <b>Mechanical specifications</b>  |       |                                                                    |
| Mounting height                   |       | max. 3500 mm                                                       |
| Degree of protection              |       | IP54 (iwhen mounted)                                               |
| Material                          |       |                                                                    |
| Optical face                      |       | PC (Polycarbonate)                                                 |
| Mass                              |       | approx. 50 g                                                       |

Assembly



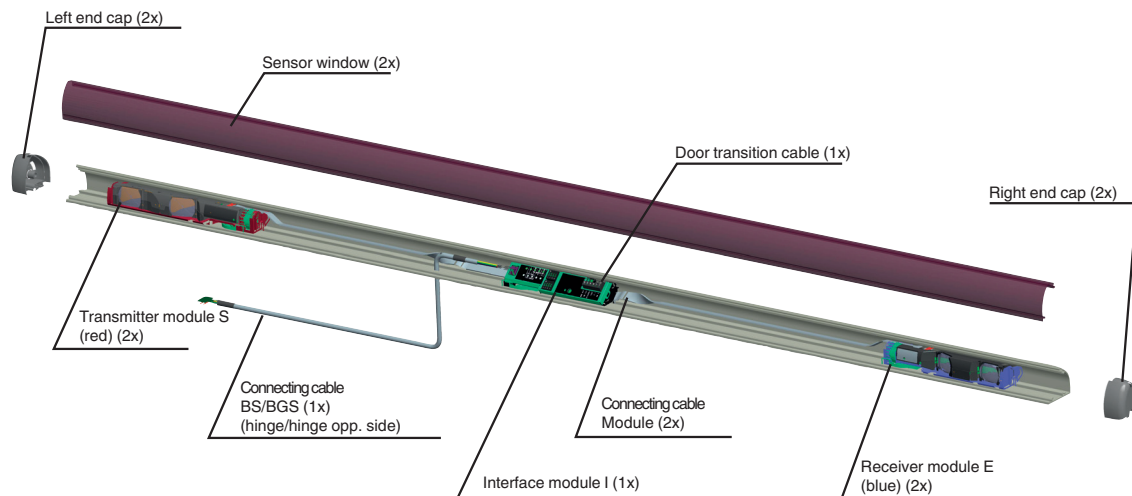
|   |                                |
|---|--------------------------------|
| 1 | Inclination angle adjustment   |
| 2 | Red status LED: light received |

Accessories

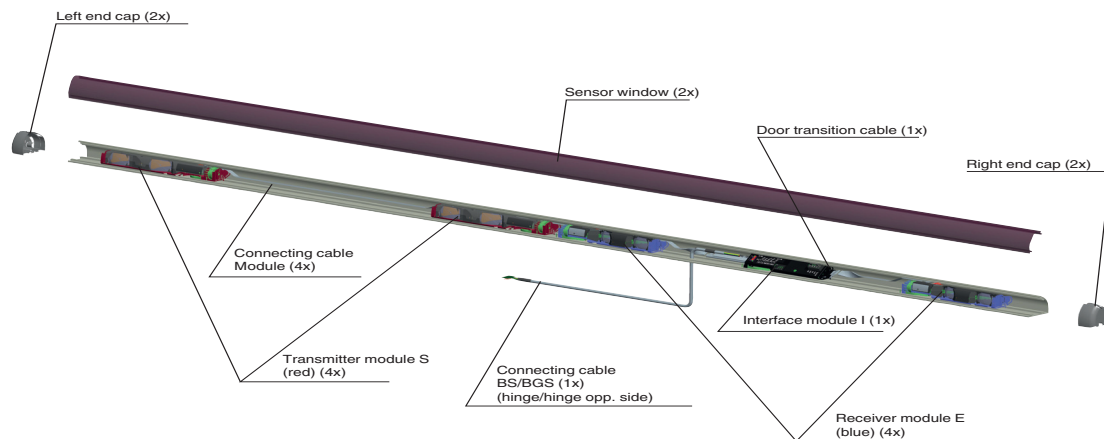
|                                                                                     |                                     |                                                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------|
|  | <b>DoorScan Connection Cable 5p</b> | Connecting cable with 5 plug-in connections for DoorScan®-I/-T/-R modules                                   |
|  | <b>DoorScan Adapter</b>             | Adapter module for installation in the DoorScan® and TopScan sensor profile, multifunction interface module |
|  | <b>DoorScan Cable Adapter</b>       | Adapter module for installation in the DoorScan® sensor profile, multifunction interface module             |

## Assembly

### Layout of the sensor system for a door with one emitter and one receiver (hinge side/leading edge side)



### Layout of the sensor system for a door with two emitters and two receivers (hinge side/leading edge side)



## Accessories

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)