



CE

Model Number

AIR30/32-UP-2493

Active infrared scanner Flush-mounted version

Features

- Single-beam light scanner
- Can be used to monitor both main and ancillary closing edges
- Closing edge safety on revolving doors and carousel doors
- Accurate beam alignment thanks to finely bundled light beam
- Flush-mounted version with front cover, black
- DC voltage version

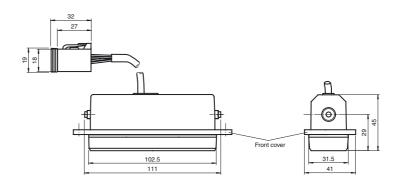
Product information

The sensor is used as an opening impulse sensor for train doors. The fact that it is fitted to the side means that the detection beam crosses the entrance area. The detection range is optimized for doors that are 935 mm to 955 mm wide. The detection range is preset and cannot be modified. This creates a background area above 885 mm in which no detection takes place.

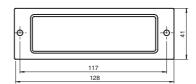
Caution!

The sensor must point towards a background or a wall, otherwise it will not work.

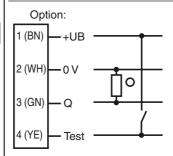
Dimensions



Front cover



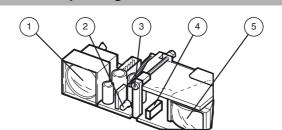
Electrical connection



Pinout



Indicators/operating means



- Transmitter
- Indication-LED
- 3 Detection range adjuster
- Light / Dark switch
- Receiver

Technical data General specifications Detection range min. 0 ... 885 mm preset Reference target material with reflection factor> 6% IRFD Light source modulated infrared light Light type 1800 Hz Transmitter frequency Operating mode Background evaluation Diameter of the light spot 22 x 22 mm at sensor range 885 mm Angle of divergence approx. 1.4 Accessories provided Swivel bracket, Mounting bracket Functional safety related parameters 1050 a MTTF_d Mission Time (T_M) 20 a 90 % Diagnostic Coverage (DC) **Electrical specifications** Operating voltage 24 V DC U_B No-load supply current I_0 100 mA Input Test input emitter deactivation at +UB Output Switching type light on (output is active, when background exists and no person in the detection field) 1 PNP output, short-circuit protected, reverse polarity protected, Signal output open collector max: 31.2 V DC Switching voltage Switching current ≤ 0.2 A Response time 50 ms Standard conformity Standards EN 60947-5-2 EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11 Standards 2 Standards 3 EN 61000-6-3 **Ambient conditions** Ambient temperature -20 ... 60 °C (-4 ... 140 °F) -30 ... 70 °C (-22 ... 158 °F) Storage temperature **Mechanical specifications** Degree of protection IP52 Connection Connecting cable 500 mm with socket connector (Deutsch), 4-Material Housing plastic Optical face Luran®

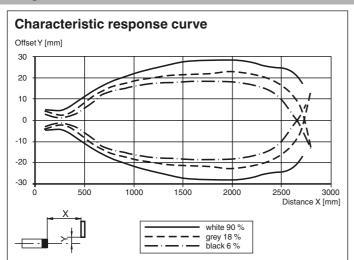
Approvals and certificates

Mass

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

50 g

Curves/Diagrams



Typical applications

- Monitoring closing edges and crushing points on revolving doors and carousel doors
- Door monitoring system in local public transportation

Detection area



Accessories

UP-Einbaurahmen

Mounting frame for sensors in the AIR30 and PROSCAN series

Flush Mounting AIR30

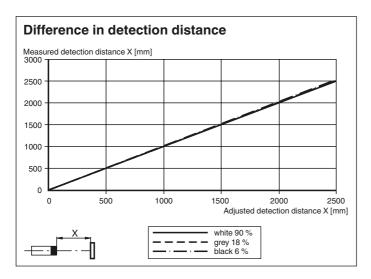
Installation cover for AIR30 series sensors

Wetterhaube AIR30

Weather hood for series AIR30

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

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Operating principle

Active infrared scanners detect people and objects using short-wave infrared radiation according to the triangulation principle. A switch signal is tripped if the infrared beam emitted is reflected by an object within the specified sensing range. Where background evaluation is activated, the background (e.g. ground) is used as a reflector.

This allows reflective or shiny objects, such as vehicles and objects located close to the surface, to be detected reliably and in full.

Operating principle Background evaluation Object in sensing field:

