



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

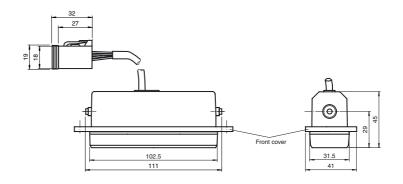
Product information

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.

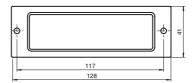
Caution!

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

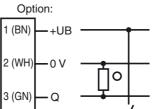
Dimensions



Front cover

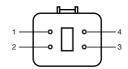


Electrical connection



Test

Pinout

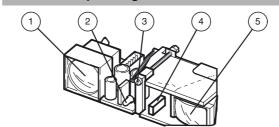


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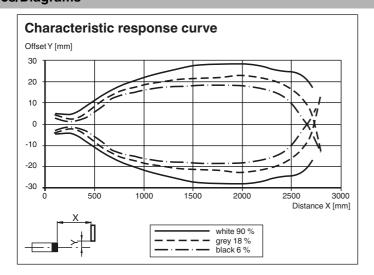
Indicators/operating means



- Transmitter
- 2 Indication-LED
- 3 Detection range adjuster
- Light / Dark switch 4
- Receiver

Technical data		
General specifications		
Detection range min.		0 885 mm preset
Reference target		material with reflection factor> 6%
Light source		IRED
Light type		modulated infrared light
Transmitter frequency		1800 Hz
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 parar	neters	
MTTF _d		1050 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		90 %
Electrical specifications		
Operating voltage	U_{R}	24 V DC
No-load supply current	I _O	100 mA
Input	Ü	
Test input		emitter deactivation at +U _B
Output		
Switching type		light on (output is active, when background exists and no person in the detection field)
Signal output		1 PNP output, short-circuit protected, reverse polarity protected open collector
Switching voltage		max: 31.2 V DC
Switching current		≤ 0.2 A
Response time		50 ms
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-30 70 °C (-22 158 °F)
Mechanical specifications		
Protection degree		IP52
Connection		Connecting cable 500 mm with socket connector (Deutsch), 4-pin
Material		
Housing		plastic
Optical face		Luran
Mass		50 g
Approvals and certificates		
CE conformity		yes
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

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

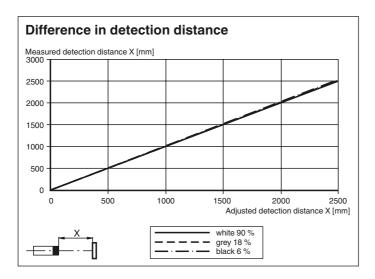
Wetterhaube AIR30

Weather hood for series AIR30

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

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Operating principle

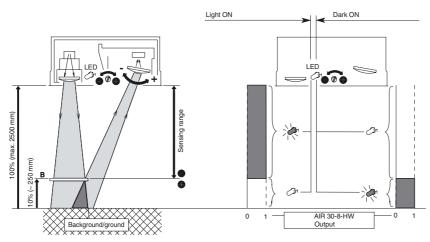
Active infrared scanners detect people and objects using short-wave infrared radiation according to the triangulation principle. A switch signal is tripped if the infrared beam emitted is reflected by an object within the specified sensing range. Where background evaluation is activated, the background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

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Operating principle Background evaluation Object in sensing field:



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