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Model Number

AIR30-8-H-2542/38a

Active infrared scanner with 2.5 m fixed cable

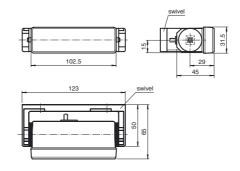
Features

- 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
- Background suppression operating mode: ignores objects outside the sensing range
- Version for universal voltages

Product information

AIR30 is a series of active infrared scanners with excellent optical properties for monitoring closing edges in a wide range of door systems. The diverse range of housings and mounting options allow the devices to be adapted to suit a whole host of mounting conditions.

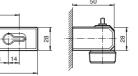
Dimensions

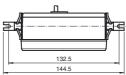


Mounting dimensions for swivel



Mounting dimensions with mounting bracket set AIR30



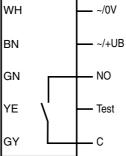




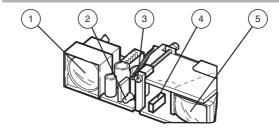
Electrical connection

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Option:



Indicators/operating means



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

www.pepperl-fuchs.com

Technical data

General specifications

550 ... 1000 mm Detection range min. Detection range max. 550 ... 2500 mm

IRFD Light source

modulated infrared light Light type Black/White difference (6 %/90 %) ≤ 400 mm at a distance of 2000 mm

Transmitter frequency

Operating mode Background suppression 50 mm at 2000 mm sensor range Diameter of the light spot

Angle of divergence approx. 1.4

Swivel bracket, Mounting bracket Accessories provided

Functional safety related parameters

1050 a $MTTF_d$ Mission Time (T_M) 20 a Diagnostic Coverage (DC) 90 %

Indicators/operating means

LED red: lights up when output is active Function display Controls Detection range adjuster, light/dark switch

Electrical specifications

10 ... 48 V DC / 11 ... 36 V AC Operating voltage U_{B}

No-load supply current 100 mA l₀

Output

Switching type light on relay, 1 NO Signal output Switching voltage \leq 55 V AC / 24 V DC Switching current \leq 200 mA AC / 1 A DC Response time

approx. 200 ms De-energized delay

Ambient conditions

-20 ... 60 °C (-4 ... 140 °F) Ambient temperature Storage temperature -20 ... 75 °C (-4 ... 167 °F)

Mechanical specifications

Protection degree IP52

fixed cable high flexibility 2.5 m Connection

Material

Housing plastic Optical face Luran 50 g

Compliance with standards and directi-

Standard conformity

Standards EN 60947-5-2

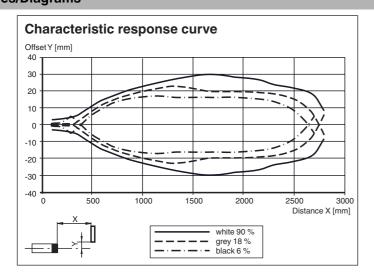
EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11

EN 61000-6-3

Approvals and certificates

CE conformity yes

Curves/Diagrams



Typical applications

- · Monitoring closing edges and crushing points on revolving doors and carousel
- 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

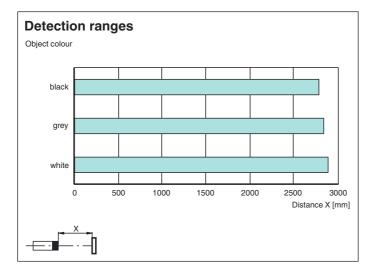
Installation cover for AIR30 series sensors

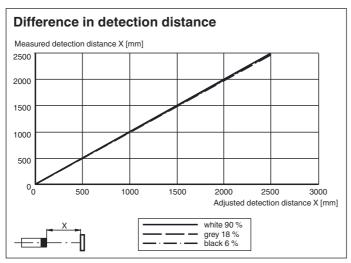
Wetterhaube AIR30

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 suppression is activated, the background (e.g. ground) is detected but not evaluated.

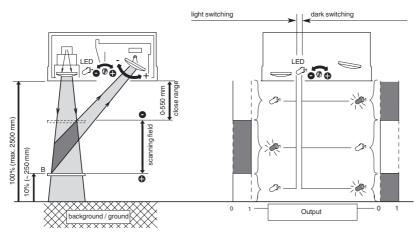
This allows an extremely precise detection area to be set and ensures reliable detection of people, vehicles and other objects.

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Function principle background suppression

Object in scanning field:



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