

(E

Model Number

AIR30/32-UP-2483/B

Active infrared scanner Flush-mounted version

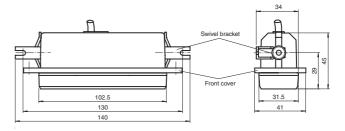
Features

- · 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

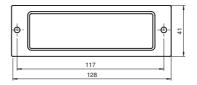
Product information

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.

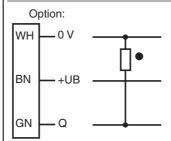
Dimensions



Front cover

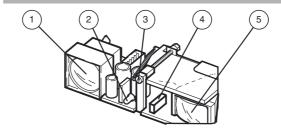


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



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

Technical data

General specifications

Detection range min. 0 ... 1870 mm preset IRED

Light source

modulated infrared light Light type

Black/White difference (6 %/90 %) ≤ 400 mm at a distance of 2000 mm

1800 Hz Transmitter frequency

Operating mode Background evaluation

Diameter of the light spot 50 mm at 2000 mm sensor range

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 Diagnostic Coverage (DC) 90 %

Indicators/operating means

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

Factory setting dark on

Electrical specifications

10 ... 30 V DC Operating voltage U_{B} No-load supply current 100 mA l₀

Output

Switching type light/dark on, switchable

1 PNP output, short-circuit protected, reverse polarity protected, Signal output

open collector

Switching voltage 30 V DC ≤ 200 mA Switching current Response time 50 ms approx. 200 ms De-energized delay

Ambient conditions

Ambient temperature -20 ... 70 °C (-4 ... 158 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature

Mechanical specifications

Protection degree IP52

2 m fixed cable Connection

Material

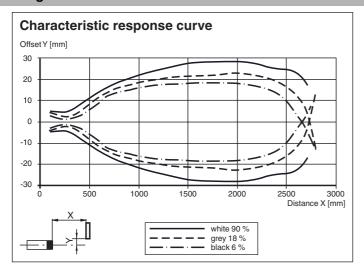
plastic Housing Optical face Luran Mass 40 g

Approvals and certificates

CE conformity ves

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
- 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

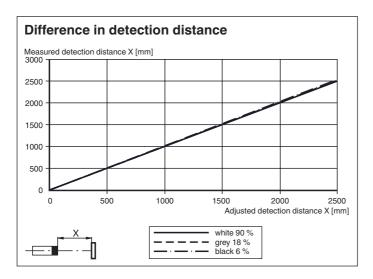
Weather hood for series AIR30

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

> 418018_eng.xml Date of issue: 2012-07-27 Release date: 2012-05-30 15:45

PEPPERL+FUCHS

www.pepperl-fuchs.com

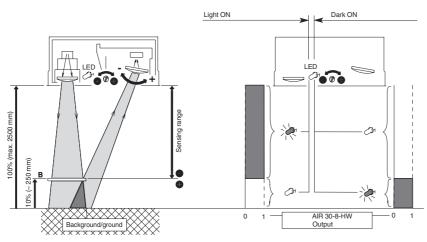


Operating principle

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:



www.pepperl-fuchs.com