

Dimensions



CE

147 130 102.5 7.1 114

Model Number

AIR30-8-HW-2500-5299/38a/76a

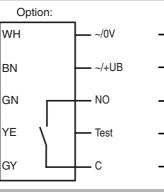
Active infrared scanner with 5 m fixed cable

Features

- Single-beam light scanner ٠
- Can be used to monitor both main and ٠ ancillary closing edges
- Accurate beam alignment thanks to ٠ finely bundled light beam
- Detection range directly adjustable • without removing front panel
- Version with pre-assembled flush-• mounted installation frame
- Version for universal voltages ٠

Product information

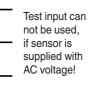
AIR30 is a series of active infrared scanners with excellent optical properties for monitoring closing edges in a wide range of door systems. The diverse range of housings and mounting options allow the devices to be adapted to suit a whole host of mounting conditions.



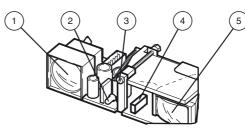
Electrical connection

Note:

/76a



Indicators/operating means



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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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1800 Hz

 U_B

 I_0

toff

100 ... 1000 mm

100 ... 2500 mm

modulated infrared light

Background evaluation 50 mm at 2000 mm sensor range

≤ 400 mm at a distance of 2000 mm

Technical data

General specifications

Accessories provided

Detection range min. Detection range max. Light source Light type Black/White difference (6 %/90 %) Transmitter frequency Operating mode Diameter of the light spot Angle of divergence

Functional safety related parameters $MTTF_d$ Mission Time (T_M)

Diagnostic Coverage (DC) Indicators/operating means Function indicator Control elements Factory setting Electrical specifications Operating voltage No-load supply current

Input

Test input Output Switching type Signal output Switching voltage Switching current Response time De-energized delay Standard conformity Standards Standards 2 Standards 3 Ambient conditions Ambient temperature

Mechanical specifications

Degree of protection Connection Material Housing Optical face Mass approx. 1.4 ° Mounting frame for sensors in the AIR30 and PROSCAN series (pre-mounted) 1050 a 20 a 90 % LED red: lights up when output is active Sensing range adjuster, light-on/dark-on changeover switch light on

10 ... 48 V DC / 11 ... 36 V AC 100 mA

emitter deactivation at +U_B

light/dark on, switchable relay, 1 NO \leq 50 V AC / 24 V DC \leq 200 mA AC / 1 A DC 50 ms approx. 200 ms

EN 60947-5-2 EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11 EN 61000-6-3

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

IP52 5 m fixed cable

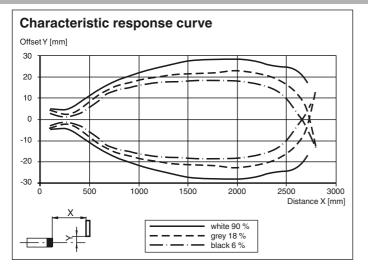
plastic Luran[®] 50 g

Certified by China Compulsory Certification (CCC)

Curves/Diagrams

CCC approval

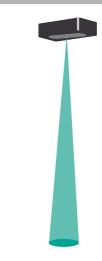
Approvals and certificates



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

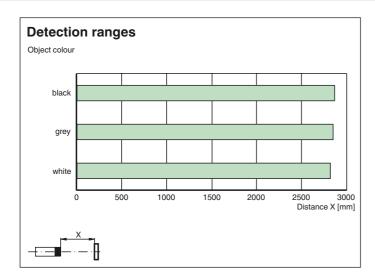
Weather hood for series AIR30

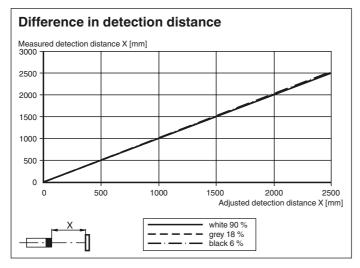
Other suitable accessories can be found at www.pepperl-fuchs.com

Pepperl+Fuchs Group www.pepperl-fuchs.com

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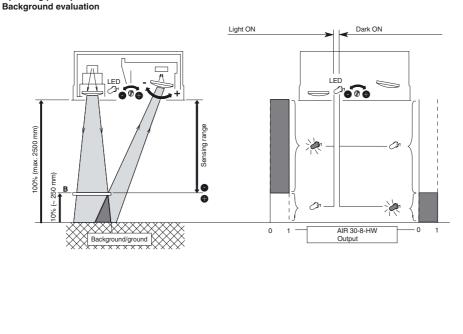


Operating principle

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



Object in sensing field:

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