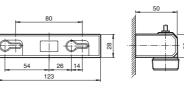


Mounting dimensions with mounting bracket set AIR30

132.5 144.5

¢





Mounting dimensions for swivel





# **Model Number**

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

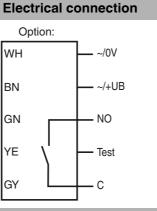
Active infrared scanner with 5 m fixed cable

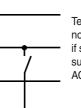
## **Features**

- Single-beam light scanner •
- Can be used to monitor both main and ٠ ancillary closing edges
- Closing edge safety on revolving ٠ doors and carousel doors
- Accurate beam alignment thanks to • finely bundled light beam
- Background evaluation operating ٠ mode: uses the background as a reference for detecting difficult objects

# **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.



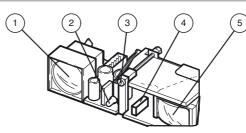


/76a

### Note:

Test input can not be used, if sensor is supplied with AC voltage!

# 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

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

<sup>5</sup> PEPPERL+FUCHS 1 20 a

90 %

#### Technical data

# General specifications

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 Accessories provided Functional safety related parameters MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) Diagnostic Coverage (DC) Indicators/operating means Function indicator Control elements Factory setting **Electrical specifications** Operating voltage  $U_B$ No-load supply current I<sub>0</sub> Input Test input Output Switching type Signal output Switching voltage Switching current Response time De-energized delay toff Standard conformity Standards Standards 2 Standards 3 Ambient conditions Ambient temperature Storage temperature **Mechanical specifications** Degree of protection Connection Material Housing Optical face Mass

100 ... 1000 mm 100 ... 2500 mm IRED modulated infrared light ≤ 400 mm at a distance of 2000 mm 1800 Hz Background evaluation 50 mm at 2000 mm sensor range approx. 1.4 ° Swivel bracket, Mounting bracket 1050 a

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 +UB

light/dark on, switchable relay, 1 NO ≤ 50 V AC / 24 V DC ≤ 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<sup>®</sup>

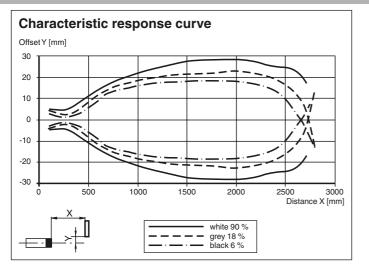
50 g

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

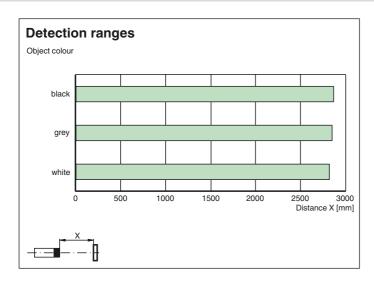
Weather hood for series AIR30

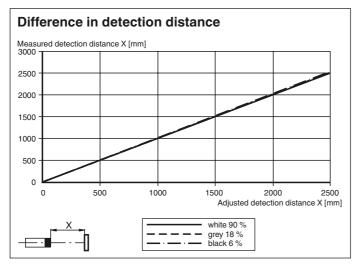
Other suitable accessories can be found at www.pepperl-fuchs.com

Pepperl+Fuchs Group www.pepperl-fuchs.com

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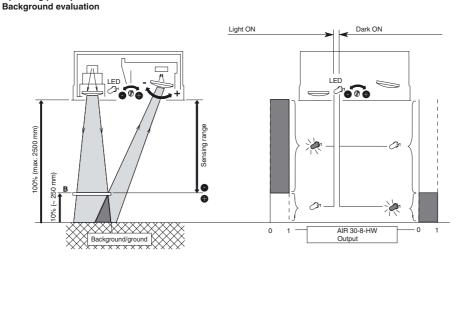


### **Operating principle**

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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