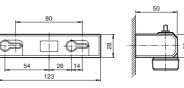


Mounting dimensions with mounting bracket set AIR30

132.5 144.5

¢





Mounting dimensions for swivel





Model Number

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

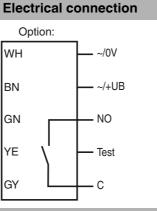
Active infrared scanner with 5 m fixed cable

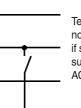
Features

- 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.



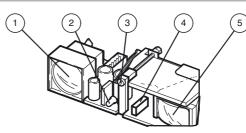


/76a

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

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

⁵ 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_d Mission Time (T_M) Diagnostic Coverage (DC) Indicators/operating means Function indicator Control elements Factory setting **Electrical specifications** Operating voltage U_B No-load supply current I₀ 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[®]

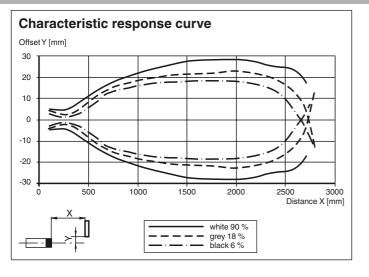
50 g

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

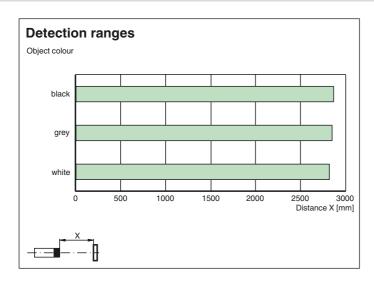
Weather hood for series AIR30

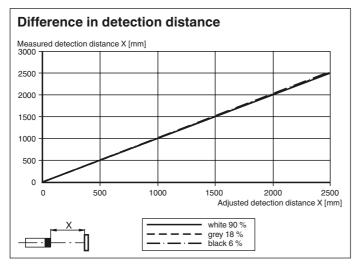
Other suitable accessories can be found at www.pepperl-fuchs.com

Pepperl+Fuchs Group www.pepperl-fuchs.com

2

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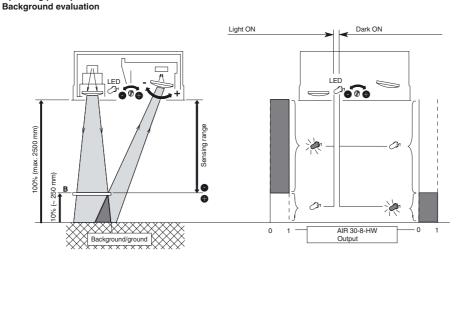


Operating principle

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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