









Model Number

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

Active infrared scanner with 5 m fixed cable

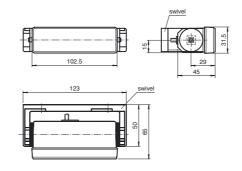
Features

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

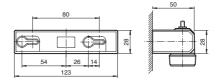
Product information

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.

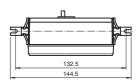
Dimensions



Mounting dimensions for swivel

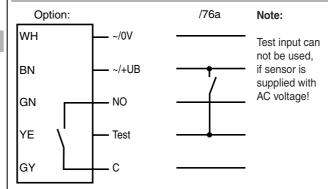


Mounting dimensions with mounting bracket set AIR30 $\,$

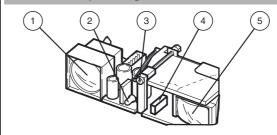




Electrical connection



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. 100 ... 1000 mm

Detection range max. 100 ... 2500 mm

Light source IRED

Light type modulated infrared light

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

Transmitter frequency 1800 Hz

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

Indicators/operating means

Function display

LED red: lights up when output is active

Controls

Detection range adjuster, light/dark switch

Electrical specifications

Operating voltage U_B 10 ... 48 V DC / 11 ... 38 V AC

No-load supply current I₀ 100 mA

Input

Test input emitter deactivation at +U_B

Output

Switching type light/dark on, switchable / Ex works settings: light on

 Signal output
 relay, 1 NO

 Switching voltage
 ≤ 55 V AC / 24 V DC

 Switching current
 ≤ 200 mA AC / 1 A DC

Response time ${
m 50~ms}$ De-energized delay ${
m t_{off}}$ approx. 200 ms

Ambient conditions

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

Mechanical specifications

Protection degree IP52

Connection 5 m fixed cable

Material

Housing plastic
Optical face Luran
Mass 50 g

Compliance with standards and directi-

ves

Standard conformity

Standards EN 60947-5-2

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

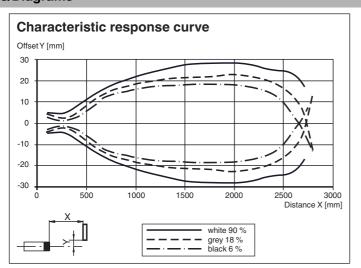
EN 61000-6-3

Approvals and certificates

CE conformity yes

CCC approval Certified by China Compulsory Certification (CCC)

Curves/Diagrams



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

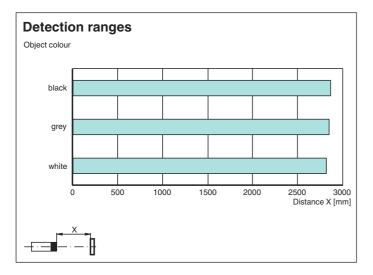
Flush Mounting AIR30

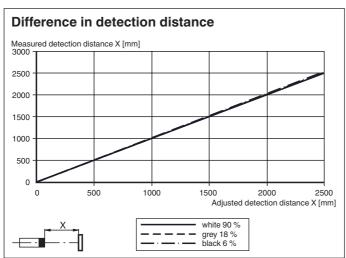
Installation cover for AIR30 series sensors

Wetterhaube AIR30

Weather hood for series AIR30

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





Operating principle

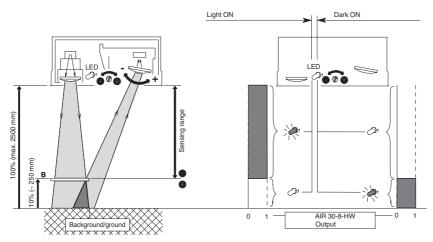
Active infrared scanners detect people and objects using short-wave infrared radiation according to the triangulation principle. A switch signal is tripped if the infrared beam emitted is reflected by an object within the specified sensing range. Where background evaluation is activated, the background (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.

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Operating principle Background evaluation Object in sensing field



www.pepperl-fuchs.com

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