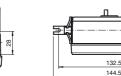


Mounting dimensions for swivel

Electrical connection







Mounting dimensions with mounting bracket set AIR30

Model Number

CE

AIR30-8-H-2500/38a

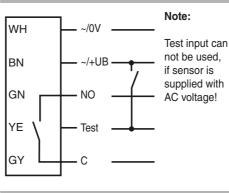
Active infrared scanner with 5 m fixed cable

Features

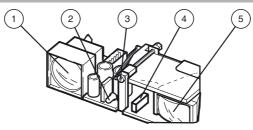
- Single-beam light scanner
- Can be used to monitor both main and ancillary closing edges
- Closing edge safety on revolving doors and carousel doors
- Accurate beam alignment thanks to finely bundled light beam
- Background suppression operating mode: ignores objects outside the sensing range

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.



Indicators/operating means



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

Subject to modifications without notice Pepperl+Fuchs Group US

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Technical data

General specifications 550 ... 1000 mm Detection range min. Detection range max. 550 ... 2500 mm IRED Light source Light type Black/White difference (6 %/90 %) Transmitter frequency 1800 Hz Operating mode Diameter of the light spot Angle of divergence approx. 1.4 Accessories provided Functional safety related parameters 1050 a MTTF_d Mission Time (T_M) 20 a Diagnostic Coverage (DC) 90 % Indicators/operating means Function display Controls **Electrical specifications** Operating voltage UB No-load supply current 100 mA I₀ Input Test input emitter deactivation at +UB Output Switching type Signal output relay, 1 NO Switching voltage Switching current 70 ms Response time De-energized delay approx. 200 ms t_{off} Ambient conditions Ambient temperature -20 ... 75 °C (-4 ... 167 °F) Storage temperature **Mechanical specifications** IP52 Protection degree Connection 5 m fixed cable Material Housina plastic Optical face Luran Mass 50 g Compliance with standards and directives Standard conformity Standards

modulated infrared light ≤ 400 mm at a distance of 2000 mm Background suppression 50 mm at 2000 mm sensor range Swivel bracket, Mounting bracket

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

10 ... 48 V DC / 11 ... 38 V AC

light/dark on, switchable ≤ 55 V AC / 24 V DC ≤ 200 mA AC / 1 A DC

-20 ... 60 °C (-4 ... 140 °F)

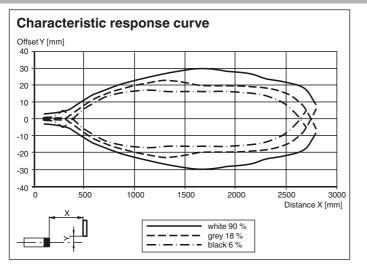
EN 60947-5-2 EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11 EN 61000-6-3

Approvals and certificates

CE conformity CCC approval

ves Certified by China Compulsory Certification (CCC)

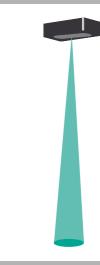
Curves/Diagrams



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

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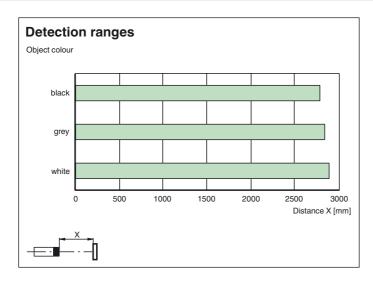


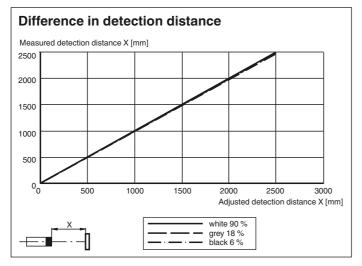
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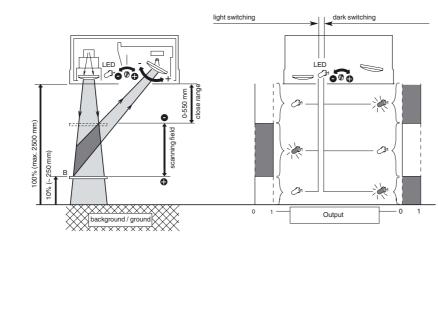
Operating principle

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 suppression is activated, the background (e.g. ground) is detected but not evaluated.

This allows an extremely precise detection area to be set and ensures reliable detection of people, vehicles and other objects.

Function principle background suppression

Object in scanning field:



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