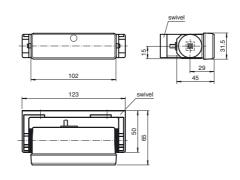
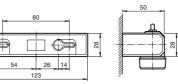


Dimensions



Mounting dimensions with mounting bracket set AIR30



Mounting dimensions for swivel

Electrical connection

WН

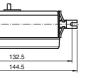
ΒN

GN

YΕ

GΥ







Model Number

CE

AIR30-8-H-2500-5299/38a

Active infrared scanner with 5 m fixed cable

Features

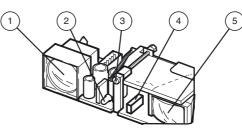
- Single-beam light scanner ٠
- Can be used to monitor both main and ٠ ancillary closing edges
- Closing edge safety on revolving ٠ doors and carousel doors
- Detection range directly adjustable • without removing front panel
- Accurate beam alignment thanks to • finely bundled light beam
- Version for 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.

Note: ~/0V Test input can not be used, ~/+UB if sensor is supplied with NO AC voltage! Test С

Indicators/operating means



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

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" 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 ⁵ PEPPERL+FUCHS 1 1050 a

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 Approvals and certificates

550 ... 1000 mm 550 ... 2500 mm IRED modulated infrared light ≤ 400 mm at a distance of 2000 mm 1800 Hz Background suppression 50 mm at 2000 mm sensor range approx. 1.4 Swivel bracket, Mounting bracket

LED red: lights up when output is active Sensing range adjuster, light-on/dark-on changeover switch liaht 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 \leq 200 mA AC / 1 A DC 70 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)

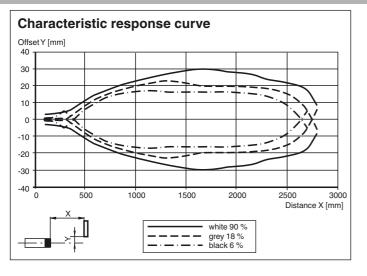
IP52 5 m fixed cable plastic Luran®

50 g

Certified by China Compulsory Certification (CCC)

Curves/Diagrams

CCC approval



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

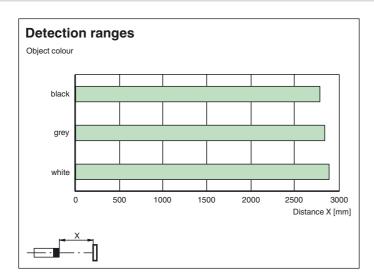
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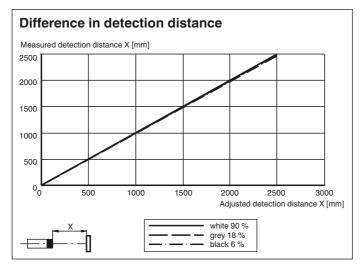
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USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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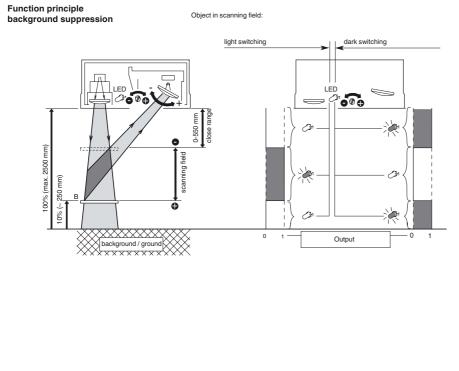




Operating principle

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 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.



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