







Model Number

AIR30-8-HW-2500-5299/38a/76a

Active infrared scanner with 5 m fixed cable

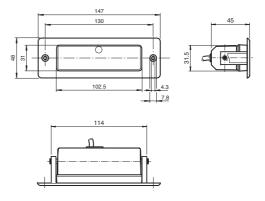
Features

- Single-beam light scanner
- Can be used to monitor both main and ancillary closing edges
- Accurate beam alignment thanks to finely bundled light beam
- Detection range directly adjustable without removing front panel
- Version with pre-assembled flushmounted installation frame
- · Version for universal voltages

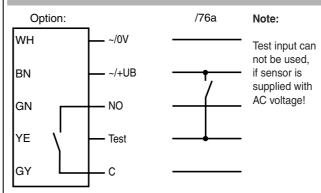
Product information

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.

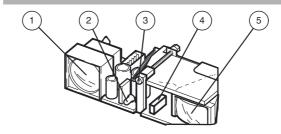
Dimensions



Electrical connection



Indicators/operating means



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

Technical data

General specifications

100 ... 1000 mm Detection range min. Detection range max. 100 ... 2500 mm

IRFD Light source

modulated infrared light Light type

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

Transmitter frequency

Operating mode Background evaluation

50 mm at 2000 mm sensor range Diameter of the light spot

Angle of divergence approx. 1.4

Mounting frame for sensors in the AIR30 and PROSCAN series Accessories provided

(pre-mounted)

Functional safety related parameters

1050 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 90 %

Indicators/operating means

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

Factory setting liaht on

Electrical specifications

10 ... 48 V DC / 11 ... 38 V AC Operating voltage U_{B}

No-load supply current 100 mA I_0

Input

Test input emitter deactivation at +U_B

Output

light/dark on, switchable / Switching type

Signal output relay, 1 NO Switching voltage

 \leq 55 V AC / 24 V DC Switching current ≤ 200 mA AC / 1 A DC

Response time approx. 200 ms De-energized delay

Ambient conditions

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

Mechanical specifications

IP52 Protection degree

Connection 5 m fixed cable

Material

Housing plastic Optical face Luran

Compliance with standards and directi-

Standard conformity

Standards EN 60947-5-2

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

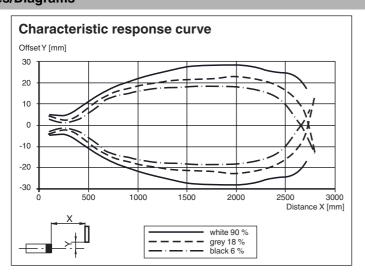
EN 61000-6-3

Approvals and certificates

CE conformity

Certified by China Compulsory Certification (CCC) CCC approval

Curves/Diagrams



Typical applications

- · Monitoring closing edges and crushing points on revolving doors and carousel
- 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

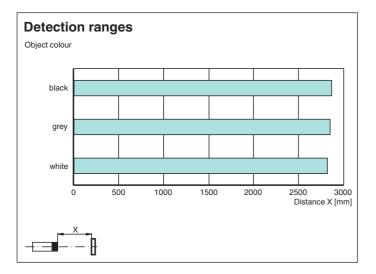
> Date of issue: 2012-12-10 240709_eng.xml Release date: 2012-12-10 13:10

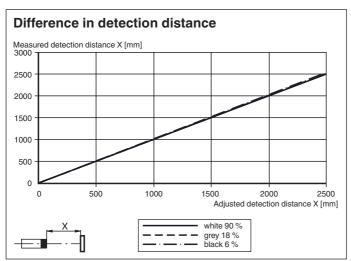
www.pepperl-fuchs.com

Copyright Pepperl+Fuchs

Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com



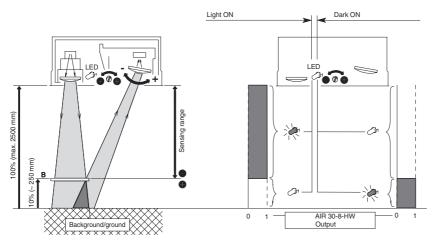


Operating principle

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.

Operating principle Background evaluation Object in sensing field:



www.pepperl-fuchs.com