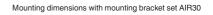


Mounting dimensions for swivel



Te



### **Model Number**

# AIR30-8-H-2500/32/76a

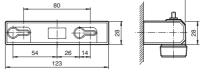
Active infrared scanner with 5 m fixed cable

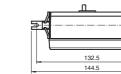
# Features

- 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 suppression operating mode: ignores objects outside the sensing range

## **Product information**

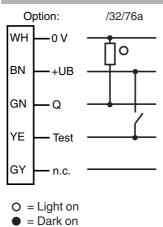
AIR30 is a series of active infrared scanners with excellent optical properties for monitoring closing edges in a wide range of door systems. The diverse range of housings and mounting options allow the devices to be adapted to suit a whole host of mounting conditions.



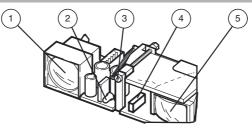




# **Electrical connection**



## Indicators/operating means



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

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### **Technical data**

#### General specifications 550 ... 1000 mm Detection range min. Detection range max. 550 ... 2500 mm IRED Light source modulated infrared light Light type Black/White difference (6 %/90 %) ≤ 400 mm at a distance of 2000 mm Transmitter frequency 1800 Hz Operating mode Background suppression 50 mm at 2000 mm sensor range Diameter of the light spot Angle of divergence approx. 1.4 Swivel bracket, Mounting bracket Accessories provided Functional safety related parameters 1050 a MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 20 a Diagnostic Coverage (DC) 90 % Indicators/operating means LED red: lights up when output is active Function display Controls Detection range adjuster, light/dark switch **Electrical specifications** 10 ... 30 V DC Operating voltage UB No-load supply current 100 mA I<sub>0</sub> Input Test input emitter deactivation at +UB Output Switching type light/dark on, switchable Signal output 1 PNP output, short-circuit protected, reverse polarity protected, open collector Switching voltage 30 V DC Switching current $\leq$ 200 mA 70 ms Response time De-energized delay approx. 200 ms t<sub>off</sub> Ambient conditions -20 ... 60 °C (-4 ... 140 °F) Ambient temperature -20 ... 75 °C (-4 ... 167 °F) Storage temperature Mechanical specifications IP52 Protection degree 5 m fixed cable Connection Material Housing plastic Optical face Luran 50 g Mass Compliance with standards and directives S

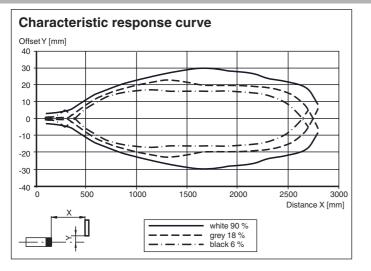
www.co.co.co.doc.ut/fice.tec		
Stanuarus	EN 6100-6-2 without EN 61000-4-5, EN 61000-4-11 EN 61000-6-3	
Standards	EN 60947-5-2	
Standard conformity		

### Approvals and certificates CE conformity

CCC approval

ves CCC approval / marking not required for products rated ≤36 V

# **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

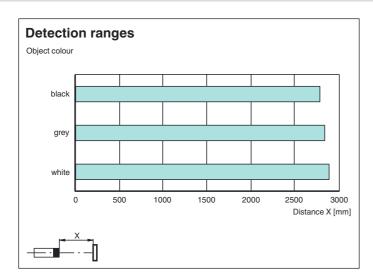
Weather hood for series AIR30

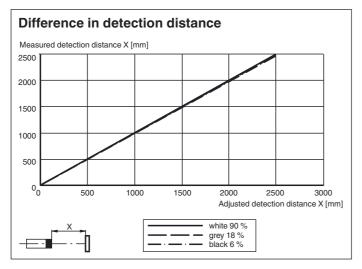
Other suitable accessories can be found at www.pepperl-fuchs.com

2

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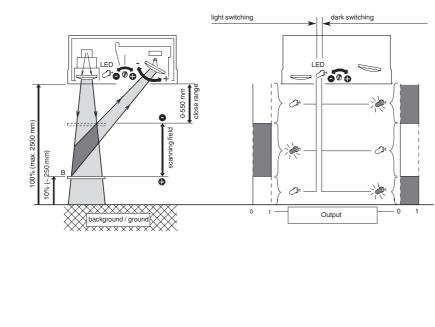
# **Operating principle**

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 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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