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Active infrared scanner AIR30/32-UP-2526/A





- Single-beam light scanner
- Can be used to monitor both main and ancillary closing edges
- Closing edge safety on automatic doors
- Accurate beam alignment thanks to finely bundled light beam
- Flush-mounted version with front cover, black
- DC voltage version
- Default setting 1600 mm

Single-beam light scanners with finely bundled light beam for monitoring main and ancillary closing edges



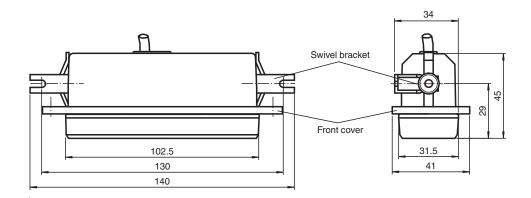
Function

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.

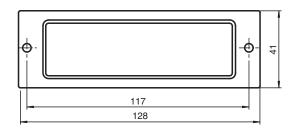
Application

- Monitoring closing edges and crushing points on revolving doors and carousel doors
- Door monitoring system in local public transportation

Dimensions



Front cover

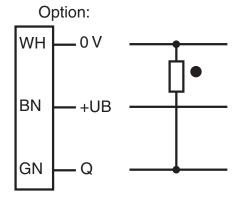


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General specifications		
Detection range		factory setting: 100 1600 mm on black
Detection range min.		100 1000 mm
Detection range max.		100 2500 mm
Light source		IRED
Light type		modulated infrared light
Black-white difference (6 %/90 %)		≤ 400 mm 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
Opening angle		approx. 1.4 °
Accessories provided		Swivel bracket, Mounting bracket
Functional safety related parameters		
$MTTF_d$		1050 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		90 %
Indicators/operating means		
Function indicator		LED red: lights up when output is active
Control elements		Sensing range adjuster, light-on/dark-on changeover switch
Factory setting		dark-on
Electrical specifications		
Operating voltage	U_B	10 30 V DC

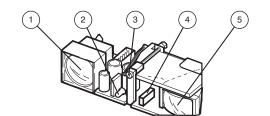
Technical Data			
No-load supply current I ₀		100 mA	
Output			
Switching type		light/dark on, switchable /	
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector	
Switching voltage		30 V DC	
Switching current		≤ 200 mA	
Response time		50 ms	
De-energized delay	t_{off}	approx. 200 ms	
Standard conformity			
Standards		EN 60947-5-2	
Standards 2		EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11	
Standards 3		EN 61000-6-3	
Approvals and certificates			
CCC approval		CCC approval / marking not required for products rated ≤36 V	
Ambient conditions			
Ambient temperature		-20 70 °C (-4 158 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Degree of protection		IP52	
Connection		fixed cable 1.5 m	
Material			
Housing		plastic	
Optical face		Luran [®]	
Mass		40 g	

Connection Assignment

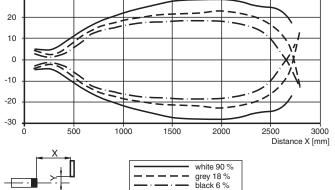


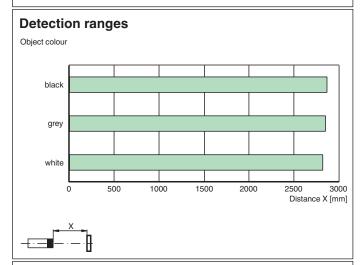
O = Light on ● = Dark on

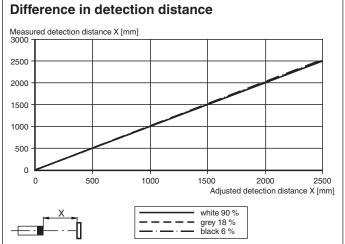
Assembly



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









Accessories

Wetterhaube AIR30	Weather hood for series AIR30
UP-Einbaurahmen	Mounting frame for sensors in the AIR30 and PROSCAN series
Flush Mounting AIR30	Installation cover for AIR30 series sensors

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:

