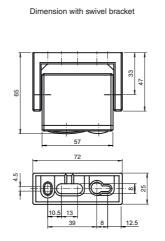
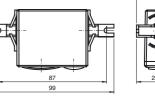


Dimensions



Dimensions with mounting angle





CE

Model Number

AIR20-8-H-2200/25/38a

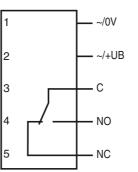
Active infrared scanner with terminal compartment

Features

- Single-beam diffuse mode sensor • with background suppression
- Can be used to secure closing edges ٠ or as an opening impulse sensor on automatic doors
- Can also be used as door handle mo-٠ nitor on revolving doors
- Narrow, precise long range light beam
- Suitable for moving or stationary • mounting
- Not sensitive to ambient light ٠

Product information

The AIR20 is an infrared diffuse mode sensor with background suppression that is specially designed for monitoring the closing edges on revolving doors. Its background suppression ensures reliable recognition of the objects to be detected. Due to its compact dimensions, the sensor can be installed in virtually all door drives.



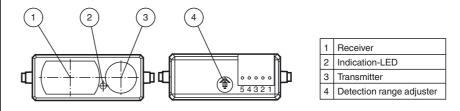
Electrical connection

1

4

5

Indicators/operating means



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Technical data			Typical applications	
General specifications		Closing edge monitoring on revolving		
Detection range		Ex works settings: 1300 mm (adjustable)		
Detection range min.		200 1300 mm	 doors Opening impulse sensor and closing-edge 	
Detection range max.		200 2200 mm	 Opening impulse sensor and closing-edge monitoring on automatic doors Presence check for turnstiles and safety 	
Light source		IRED		
Light type Black/White difference (6 %/90 %)		modulated infrared light	checkpoints	
		≤ 400 mm at Tw 1300 mm		
Operating mode		Background suppression	Detection area	
Diameter of the light spot		60 mm at Tw 1300 mm	Detection area	
Angle of divergence		approx. 2.6 °		
Accessories provided		Swivel bracket, Mounting angle, Connecting cable		
Functional safety related param	eters			
MTTF _d		1420 a		
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %		
Indicators/operating means				
Function display		LED red: lights up when output is active		
Controls		Detection range adjuster		
Electrical specifications				
Operating voltage	UB	12 30 V DC / 18 28 V AC		
No-load supply current	I ₀	< 50 mA		
Output	-0			
Switching type		light on		
Signal output		Relay, 1 alternator		
Switching voltage		\leq 48 V AC / DC		
Switching current		$\leq 0.5 \text{ AC}/1 \text{ ADC}$		
Response time		approx. 50 ms		
De-energized delay	t	approx. 250 ms		
	t _{off}	applox. 250 ms	A	
Ambient conditions			Accessories	
Ambient temperature		-20 60 °C (-4 140 °F)	Flush Mounting AIR20	
Storage temperature		-20 75 °C (-4 167 °F)	Flush-mounted frame for sensors in the	
Mechanical specifications			AIR20	
Protection degree		IP52	AIR20/PIR20 Weather Cap AIR-weather hood for AIR20 and PIR20 se	
Connection		plug-in screw terminals (5 m connecting cable in delivery package)		
Material			ries sensors	
Housing		ABS		
Optical face		PMMA	Other suitable accessories can be found a www.pepperl-fuchs.com	
Mass		50 g		
Note		Safety fuse \leq 315 mA (slow-blow) according to IEC 60127-2 Sheet 1		
Compliance with standards and ves	directi			
Directive conformity				
EMC Directive 2004/108/EC		EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11 , EN 61000-6-3		
Standard conformity				
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007		
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		yes		
Operating principle				

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 precise detection area to be set and ensures reliable detection of people.

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