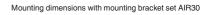


Mounting dimensions for swivel





Model Number

PROSCAN/32

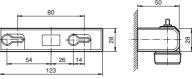
Active infrared scanner with fixed cable

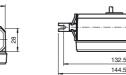
Features

- Fan-shaped detection field with up to 12 beams
- Closing safety monitoring over the complete door width
- Adjustable detection fields for different door widths
- Automatic drift compensation
- Version with test input

Product information

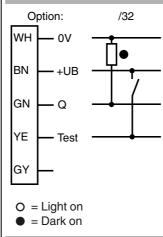
The compact ProScan energetic light scanner operates using an integrated source of infrared light and creates a fan-shaped detection field consisting of a maximum of 12 independent light beams. Since the beam intensifies toward the center of the fan, the area around the closing edges in particular is monitored virtually seamlessly. The sensors are self-programming and automatically adapt to any environment, learn the environment, and even automatically adapt to subsequent changes. Other notable features include the high level of sensitivity, ambient light immunity and compensation of long-term drift. This function guarantees reliable longterm use, even in dirty, rainy or snowy conditions.



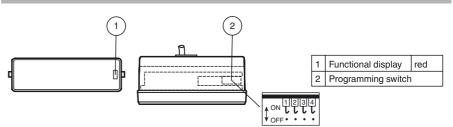




Electrical connection



Indicators/operating means



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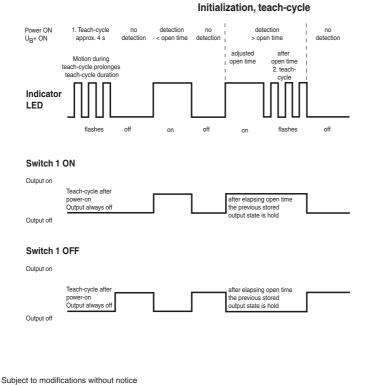
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Technical data		Т
General specifications		1
Detection field	total field: 2300 mm x 80 mm left/right field: 1150 mm x 80 mm center field: 1000 mm x 80 mm II (installation height: 2 m)	•
Light source	12 x IRED	
Light type	modulated infrared light	•
Teach-in time	approx. 4 s	
Open time	3 min/10 s, programmable	
Accessories provided	Swivel bracket, Mounting bracket	
Functional safety related parameters	s	•
MTTF _d	780 a	
Mission Time (T _M)	20 a	D
Diagnostic Coverage (DC)	60 %	
Indicators/operating means		
Function display	LED red: on for object detection, flashes during teaching phase	
Controls	Programmble switch for switching type, open time, detection field	
Electrical specifications		
Operating voltage U _E	12 38 V DC	
Ripple	10 %	
No-load supply current I ₀	100 mA	
Input		
Test input	emitter deactivation with +Ub	
Output		
Switching type	Output active / inactive programmable	
Signal output	1 PNP, short-circuit protected, reverse polarity protected, open collector	
Switching voltage	38 V DC	
Switching current	200 mA	
Response time	< 50 ms	
De-energized delay toff	200 ms	
Ambient conditions		_
Ambient temperature	-20 60 °C (-4 140 °F)	A
Storage temperature	-20 70 °C (-4 158 °F)	u
Mechanical specifications		N
Mounting height	1000 2500 mm	
Protection degree	IP52	a
Connection	5 m fixed cable	0
Material		w
Housing	ABS	
Optical face	РММА	
Mass	approx. 100 g	

Curves/Diagrams

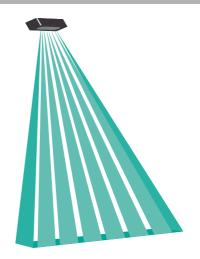




Typical applications

- Closing edge protection on automatic sliding doors, for example sliding doors in shopping centers, public buildings and office buildings
- Version T with e1 approval: Closing edge protection on automatic doors on public transport vehicles, such as buses and trains
- Threshold monitoring on revolving doors

Detection area



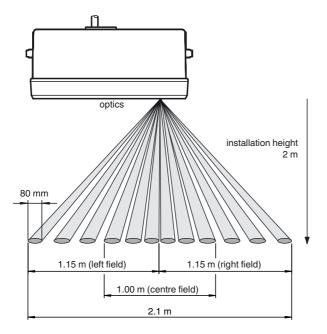
Accessories

UP-Einbaurahmen Mounting frame for sensors in the AIR30 and PROSCAN series

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

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Functional principle

The ProScan is a 12-beam energetic light scanner based on the principles of active infrared. The beams, which are switched independently, enable the sensor to fan out across an extremely wide and narrow detection field in the area of the door.

The clearly defined, fan-shaped detection field on the ProScan can be set manually in four areas: half fan to the right, half fan to the left, central fan and full detection field.

Immediately after being switched on for the first time, the ProScan programs the reflected pattern of the detected background as the reference signal. During this process, the ProScan automatically adapts to the relevant installation and assembly environment. Since each of the individual light beams on the ProScan independently programs its specific reception level, there is no need to manually configure complex sensitivity settings.

Once the programming phase is complete, the light reflected from each of the 12 light beams is evaluated. Each time there is a difference between the reflected value of an individual light beam and the reference signal, a switching process is initiated.

"Open Time" Function

The ProScan is a self-programming device, and automatically adjusts to changes in its environment. If the ProScan detects a stationary object that does not correspond to the programmed reference signal (for example, a suitcase), ProScan interprets this as a permanent change in the environment and initiates a new self teach-in process after a preset time (referred to as "Open Time") has elapsed. Open Time can be adjusted to meet customer application requirements.

"Suitcase" Function

After a background has been changed, the ProScan "Suitcase" function allows the reference to be adjusted back to the original background. Once a self-taught object, such as a suitcase, is removed from the detection field again, ProScan returns to the original reference. A new learning process is not required.

Compensating for long-term drifts

The ProScan is able to compensate for long-term drifts. Using this function, changes to the ground reflectance (for example, caused by rain or snow), as well as temperature fluctuations and dirt on the optical surface or ground are automatically compensated for.

Test input (optional)

Using the integrated test input, the overall function of the ProScan can be reliably checked by testing all 12 light beams simultaneously.

Programming options

The programming switch can be accessed by gently pulling the lens assembly away from the housing. A small flat-head screwdriver can be used to gently push the cover off by the slots located at the sides of the cover.

Each switch is activated when the pin is connected to the hook (ON); if the pin is not connected to the hook, the switch is deactivated (OFF).

The programming options are listed in the following table.

Switches	Output active during detection	Output inactive during detection	Open Time 10 seconds	Open Time PROSCAN 3 min PROSCAN-T 3 seconds
1	ON	OFF		
2			ON	OFF

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2012-08-03



	Detecting field at installation height of 2000 mm								
	Switches	2300 mm x 80 mm Full field	1150 mm x 80 mm Left field	1150 mm x 80 mm Right field	1000 mm x 80 mm Center field				
3		OFF	OFF	ON	ON				
4		OFF	ON	OFF	ON				

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