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Model Number

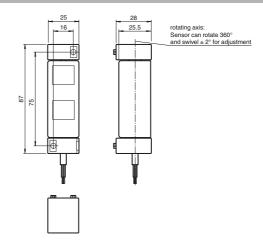
RL80-54/25/31/115 SET2

Retroreflective sensor with 2 m fixed cable

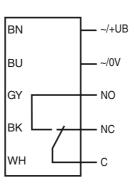
Features

- Retroreflective sensor with polarization filter and foreground suppression for suppressing reflective objects
- Relay output
- High detection ranges achievable
- Supplied with reflector

Dimensions



Electrical connection



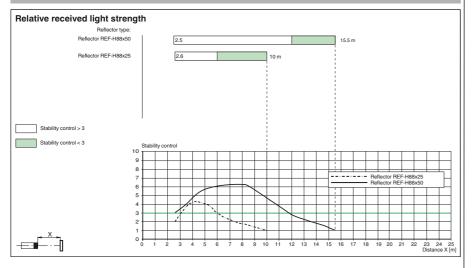
Other suitable accessories can be found at www.pepperl-fuchs.com

Technical data		
General specifications		
Effective detection range		REF-H88x50 0 12 m
Reflector distance		REF-H88x50 2.5 15.5 m
Threshold detection range		REF-H88x50 15.5 m
Reference target		REF-H88x50
Light source		LED
Light type		modulated visible red light , 640 nm
Diameter of the light spot		approx. 200 mm at a distance of 6 m
Angle of divergence		3°
Ambient light limit		EN 60947-5-2 10000 Lux
Functional safety related paran	neters	
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		LED yellow
Electrical specifications		
Operating voltage	U _B	12 24 V AC/DC
Ripple		10 %
No-load supply current	I ₀	≤ 40 mA
Time delay before availability	t_{v}	< 300 ms
Output		
Switching type		light on
Signal output		Relay, 1 alternator Relay energized: Light beam is not interrupted
Switching voltage		max. 50 V AC ; 60 V DC
Switching current		max. 1 A
Switching power		max: 30 W ; 60 VA
Response time		Light beam unobstructed to light beam interrupted: 10 ms Light beam interrupted to light beam unobstructed: 80 ms
Conformity		
Product standard		EN 60947-5-2
Ambient conditions		
Ambient temperature		-30 60 °C (-22 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP65
Connection		2-meter PVC cable
Material		
Housing		Polycarbonate
Optical face		PMMA
Mass		approx. 155 g

Approvals and certificates

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

Curves/Diagrams



Function display

LED yellow	Stability control	Description	
< 15 min after power up (set-up)			
off	SC > 3	light beam free, sensor ideal aligned or positioned for longest operating time	
flashes 2 Hz	1 < SC < 3	sensor not properly aligned, sensor or reflector dirty	
on	SC < 1	sensor misaligned or light beam interrupted	
> 15 min after power up (operating)			
off	SC > 1,5	light beam free	
flashes 4 Hz	1 < SC < 1, 5	sensor or reflector dirty	
on	SC < 1	light beam interrupted	