Retroreflective area sensor

RLG28-55-7226



CE

Model Number

RLG28-55-7226

Retroreflective area sensor with 4-pin, M12 x 1 connector

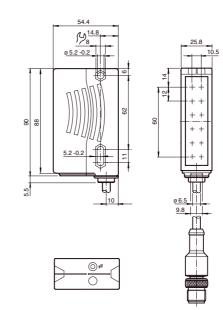
Features

- Retro-reflective area sensor with 6 light beams in standard photoelectricsensor enclosure
- Connection compatibly replaces single beam photoelectric sensor
- Reliable detection of the front edge of ٠ the object irrespective of its shape and position
- Constant object detection from . 12 mm within the entire detection area
- Reliable detection of all surfaces irrespective of the object texture
- Switches when contrast difference • 10%
- . Bright, highly visible transmitter beams, guarantee convenient alignment of the sensor

Product information

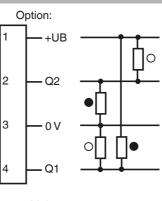
The RLG28 retro-reflective area sensor contains several transmitters and receivers in one housing and with a reflector positioned opposite forms a 60 mm detection area over a sensing range of 0,6 m.

When the light beams are interrupted by an object, the switching function is triggered. The smallest detectable object size is 12 mm. The RLG28 switches at a 10% contrast difference with a response time of 1 ms. An intelligent gain control compensates for effects such as dirt, misalignment, and temperature.



Electrical connection

Dimensions

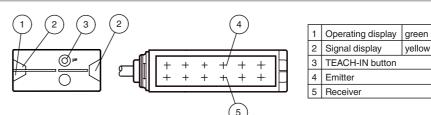




Pinout



Indicators/operating means



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



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reflector.

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Technical data		Accessories
General specifications		ОМН-05
Effective detection range	0 0.6 m	Mounting aid for round steel ø 12 mm or
Reflector distance	0.15 0.6 m	sheet 1.5 mm 3 mm
Threshold detection range	1 m	
Sensing range	typical 60 mm , Object has to cover the refelector completely in one dimension	OMH-07 Mounting aid for round steel ø 12 mm or
Reference target	Reflector H50x100 , H85-2 reflector	sheet 1.5 mm 3 mm
Light source	LED	
Light type	modulated visible red light , 625 nm	OMH-21
Polarization filter Number of beams	yes 6	Mounting bracket
Angle of divergence	+/- 2.5 °	OMH-RLK29-HW
Ambient light limit	5000 Lux	Mounting bracket for rear wall mounting
Resolution	12 mm	Mounting bracket for real wait mounting
Functional safety related parameters	310 a	OMH-K01 dove tail mounting clamp
MTTF _d Mission Time (T _M)	20 a	dove tail mounting clamp
Diagnostic Coverage (DC)	0%	REF-H85-2
Indicators/operating means	0 /0	Reflector, rectangular 84.5 mm x
Operation indicator	LED green, statically lit Power on	84.5 mm, mounting holes
oporation indicator	Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) short-circuit : LED green flashing (approx. 4 Hz)	REF-H50x100 Reflector, rectangular 122 mm x 49.5 mm, mounting holes
Function indicator	2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted	
	Teach-In : LED yellow/green; equiphase flashing; 2,5 Hz	V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable
Control elements	Teach-In key	
Electrical specifications		V1-W-2M-PUR
Operating voltage U _B	12 30 V DC	Female cordset, M12, 4-pin, PUR cable
Ripple No-load supply current I ₀	max. 10 % max. 50 mA	Other suitable accessories can be found at www.pepperl-fuchs.com
Output		
Switching type	light/dark on	
Signal output	2 push-pull (4 in 1) outputs, complementary, short-circuit proof, reverse polarity protected	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Voltage drop U _d	≤ 2.5 V DC	
Switching frequency f	230 Hz	
Response time	1 ms	
Conformity		
Product standard	EN 60947-5-2	
Ambient conditions Ambient temperature	-10 40 °C (14 104 °F)	
Storage temperature	-40 70 °C (-40 158 °F)	
Mechanical specifications		
Housing width	25.8 mm	
Housing height	88 mm	
Housing depth	54.3 mm	
Degree of protection	IP67	
Connection	300 mm fixed cable with M12 x 1, 4-pin connector	
Material		
Housing Optical face	Plastic ABS Plastic pane	
Mass	100 g	
Approvals and certificates		
UL approval	cULus Listed, Class 2 Power Source	
CCC approval	CCC approval / marking not required for products rated \leq 36 V	
Notes		
č ,	the sensor fully illuminates the reflector. field, the entire 60 mm detection field must appear on the	

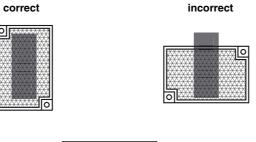
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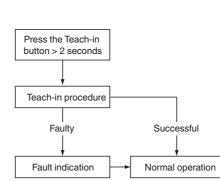
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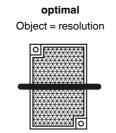
To check this illumination, look at the reflector from over the top of the sensor housing.



Teach-in:



Object detection after successful Teach-in The objects to be detected should be large enough so that the reflector is always completely covered in one dimension.



not optimal Object > resolution



