## Dimensions



#### **Model Number**

CE

#### RL28-55-2547/47

Retroreflective sensor with 230 mm fixed cable and 4-pin, M12 x 1 connector

### **Features**

- ٠ Sensing range up to 16 m
- Clearly visible LEDs for Power ON, switching state and weak signal indication
- ٠ Antivalent outputs
- Sensitivity adjuster and light/dark • switch as standard features of this series
- Not sensitive to ambient light, even ٠ with energy saving lamps
- Dove-tail mounts and pass-through • mounting holes
- Large temperature range from • -40 ... 60 °C (-40 ... 140 °F)
- Waterproof, degree of protection IP67 ٠



### **Electrical connection**



= Dark on

## **Pinout**





3

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

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Technical data			Accessories	
General specifications			OMH-05	
Effective detection range		0 17 m	Mounting aid for round steel ø 12 mm d	
Reflector distance		0.05 17 m	sheet 1.5 mm 3 mm	
Threshold detection range		21 m	OMH-07	
Reference target		H85-2 reflector	Mounting aid for round steel ø 12 mm o sheet 1.5 mm 3 mm	
Light source		LED		
Light type		modulated visible red light , 660 nm	Sheet 1.5 mm 5 mm	
Polarization filter		yes	OMH-21 Mounting bracket	
Diameter of the light spot		approx. 290 mm at a distance of 17 m		
Angle of divergence		emitter 1.2° receiver 2°	OMH-22	
Ambient light limit		80000 Lux	Mounting bracket	
Functional safety related para	ameters		mounting bracket	
MTTF <sub>d</sub>		950 a	OMH-MLV11-K	
Mission Time (T <sub>M</sub> )		20 a	dove tail mounting clamp	
Diagnostic Coverage (DC)		0 %		
Indicators/operating means			OMH-RLK29-HW	
Operation indicator		LED green	Mounting bracket for rear wall mounting	
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	OMH-RL28-C Weld slag cover model Other suitable accessories can be found	
Control elements		sensitivity adjustment (Adjustment to $< 25\%$ of the effective operating range) , Light-on/dark-on changeover switch		
Electrical specifications			www.pepperl-fuchs.com	
Operating voltage	UB	10 30 V DC		
Ripple		10 %		
No-load supply current	I <sub>0</sub>	≤ 40 mA		
Output				
Switching type		light/dark on switchable		
Signal output		2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors		
Switching voltage		max. 30 V DC		
Switching current		max. 200 mA		
Switching frequency	f	1000 Hz		
Response time		0.5 ms		
Conformity				
Product standard		EN 60947-5-2		
Ambient conditions				
Ambient temperature		-40 60 °C (-40 140 °F)		
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications				
Housing width		25.8 mm		
Housing height		88 mm		
Housing depth		54.3 mm		
Degree of protection		IP67		
Connection		fixed cable 230 mm with M12 x 1 male connector, 4-pin		
Material				
Housing		Plastic ABS		
Optical face		plastic		
Mass		70 g		
Approvals and certificates				
Protection class		II, rated voltage $\leq$ 250 V AC with pollution degree 1-2 according to IEC 60664-1		
UL approval		E87056 , cULus Listed , class 2 power supply , type rating 1		
e = app. eta.				

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2

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# **Curves/Diagrams**





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