

# **Model Number**

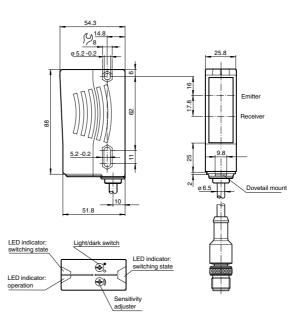
## RL28-55/35/47/115b

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

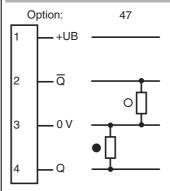
#### **Features**

- Clearly visible LEDs for Power ON, switching state and stability control
- Sensitivity adjuster and light/dark switch as standard features of this series
- Not sensitive to ambient light, even with energy saving lamps
- Dove-tail mounts and pass-through mounting holes
- Large temperature range from -40 ... 60 °C (-40 ... 140 °F)
- Sensing range up to 26 m

## **Dimensions**



## **Electrical connection**



- O = Light on
- = Dark on

#### **Pinout**



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Technical data		
General specifications		
Effective detection range		0 20 m
Reflector distance		0.05 20 m
Threshold detection range		26 m
Reference target		H85-2 reflector
Light source		LED
Light type		modulated visible red light, 660 nm
Diameter of the light spot		approx. 350 mm at a distance of 20 m
Angle of divergence		emitter 1.2° receiver 2°
Ambient light limit		80000 Lux
Functional safety related para	meters	
MTTF <sub>d</sub>		1190 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operating display		LED green
Function display		2 LEDs yellow, light up when light beam is free, flash when fa ling short of the stability control, off when light beam is interrited
Controls		sensitivity adjustment (Adjustment to < 25% of the effective operating range) , Light/Dark switch
Electrical specifications		
Operating voltage	$U_B$	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 polar protected , open collectors
Switching voltage		max. 30 V DC
Switching current		max. 200 mA
Switching frequency	f	250 Hz
Response time		2 ms
Ambient conditions		
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Protection degree		IP67
Connection		fixed cable 230 mm with M12 x 1 male connector, 4-pin
Material		
Housing		Plastic ABS
Optical face		plastic
Mass		70 g
Compliance with standards a ves	nd direct	<b>j-</b>
Standard conformity		
Product standard		EN 60947-5-2:2007
Approvals and certificates		
Protection class		II, rated voltage $\leq$ 250 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus
CCC approval		Products with a maximum operating voltage of ≤36 V do no bear a CCC marking because they do not require approval.

## **Accessories**

# OMH-05

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

#### **OMH-21**

Mounting bracket

#### **OMH-22**

Mounting bracket

# OMH-MLV11-K

dove tail mounting clamp

#### OMH-RLK29

Mounting bracket

#### **OMH-RLK29-HW**

Mounting bracket for rear wall mounting

#### OMH-RL28-C

Protective cover

#### OMH-K01

dove tail mounting clamp

#### OMH-K03

dove tail mounting clamp

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

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