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Model Number

RL28-55/35/47/115b

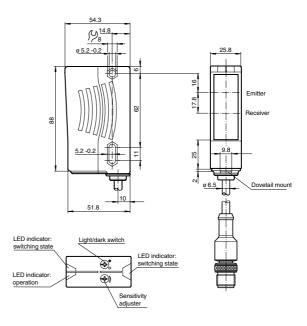
Retroreflective sensor

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

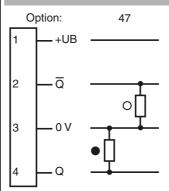
Features

- Clearly visible LEDs for Power ON, switching state and weak signal indication
- 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

Wire colors in accordance with EN 60947-5-2



1	DIN	(Drow
2	WH	(white
3	BU	(blue)
4	BK	(black



Technical data General specifications Effective detection range 0 ... 20 m 0.05 ... 20 m Reflector distance 26 m Threshold detection range H85-2 reflector Reference target LFD Light source Light type modulated visible red light, 660 nm Polarization filter Diameter of the light spot approx. 350 mm at a distance of 20 m Angle of divergence emitter 1.2° receiver 2° 80000 Lux Ambient light limit Functional safety related parameters 950 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED green Operation indicator 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 Control elements sensitivity adjustment (Adjustment to < 25% of the effective operating range), Light-on/dark-on changeover switch **Electrical specifications** 10 ... 30 V DC Operating voltage U_{B} Ripple 10 % No-load supply current \leq 40 mA I_0 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 250 Hz Switching frequency f Response time 2 ms Conformity EN 60947-5-2 Product standard Ambient conditions Ambient temperature -40 ... 60 °C (-40 ... 140 °F) -40 ... 75 °C (-40 ... 167 °F) Storage temperature **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

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-HW

Mounting bracket for rear wall mounting

OMH-RL28-C

Weld slag cover model

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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UL approval

E87056, cULus Listed, class 2 power supply, type rating 1