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Model Number

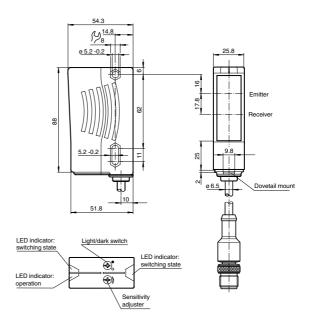
RL28-55/35/47/115b

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

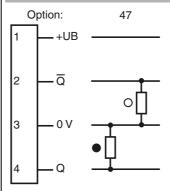
Features

- Clearly visible LEDs for Power ON, switching state and 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



www.pepperl-fuchs.com



| 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 parame | ters | |
| MTTF _d | | 1190 a |
| Mission Time (T _M) | | 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 falling short of the stability control, off when light beam is interrupted |
| 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 | l ₀ | ≤ 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 | 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 and oves | directi- | |
| Standard conformity | | |
| Product standard | | EN 60947-5-2:2007 |
| Approvals and certificates | | |
| Protection class | | II, rated voltage ≤ 250 V AC with pollution degree 1-2 accor- |
| | | ding to IEC 60664-1 |
| UL approval | | CULus |
| CCC approval | | Products with a maximum operating voltage of ≤36 V do not |

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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bear a CCC marking because they do not require approval.