

Model Number

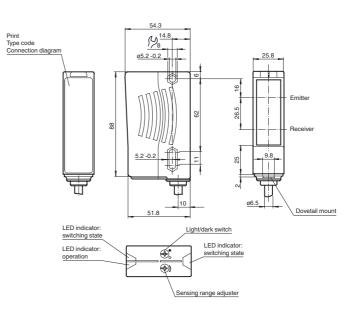
RL28-8-H-700-RT/47/115

Background suppression sensor with 2.5 m fixed cable

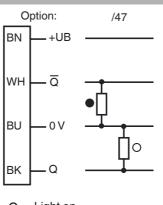
Features

- Ultra bright LEDs for power on and switching state
- Good alignability due to red transmission LED
- Not sensitive to ambient light, even with switched energy saving lamps
- Waterproof, protection degree IP67
- Protection class II

Dimensions



Electrical connection





Subject to modifications without notice Pepperl+Fuchs Group www.pepperl-fuchs.com fa-info

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| Technical data | | | Accessories | |
|---|----------------|---|-------------------|--|
| General specifications | | | OMH-05 | |
| Detection range | | 20 700 mm | Mounting aid fo | |
| Detection range min. | | 20 200 mm | | |
| Detection range max. | | 20 700 mm | sheet 1.5 mm | |
| Background suppression | | max. + 10 % of the upper limit of the detection range | OMH-07 | |
| Light source | | LED | Mounting aid for | |
| Light type Black/White difference (6 %/9 | 0 %) | modulated visible red light , 660 nm < 20 % | sheet 1.5 mm | |
| Diameter of the light spot | | approx. 15 mm at a distance of 700 mm | OMH-21 | |
| Angle of divergence | | Emitter 1.2°, Receiver 2° | Mounting brack | |
| Ambient light limit | | 50000 Lux | OMH-22 | |
| Functional safety related par | ameters | | Mounting brack | |
| MTTF _d | | 1130 a | | |
| Mission Time (T _M) | | 20 a | OMH-MLV11-K | |
| Diagnostic Coverage (DC) | | 0 % | dove tail mounti | |
| Indicators/operating means | | | OMH-RLK29 | |
| Operating display | | LED green | • | |
| Function display | | 2 LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range | Mounting brack | |
| Controls | | Light/Dark switch | Mounting brack | |
| Controls | | Detection range adjuster | | |
| Electrical specifications | | | OMH-RL28-C | |
| Operating voltage | U _B | 10 30 V DC | Protective cover | |
| Ripple | - 0 | 10 % | Other suitable ac | |
| No-load supply current | I ₀ | ≤ 40 mA | www.pepperl-fuch | |
| Output | - | | P PP | |
| 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 | | 2500 mm fixed cable | | |
| Material | | | | |
| Housing | | Plastic ABS | | |
| Optical face Mass | | plastic | | |
| Compliance with standards a | محمد المحمد | 70 g | | |
| ves Standard conformity | and direct | - | | |
| 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 | | |

UL approval cULus CCC approval

Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.

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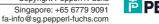
ting clamp

ket

łW ket for rear wall mounting

accessories can be found at hs.com

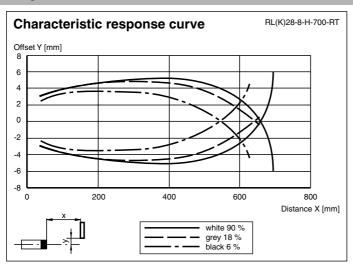
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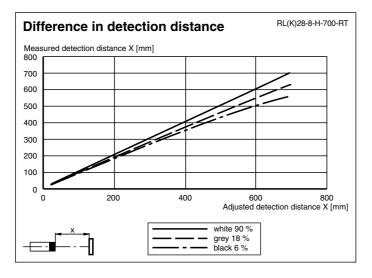




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Curves/Diagrams





Additional information

Mounting instructions:

There are two bore holes for mounting the sensor with M5 bolts. The base surface must be flat to avoid distorting the housing during mounting. It is advisable to secure the bolts with spring washers so that the sensor does not become misaligned. Outdoor installation:

The sensor must be protected against rain and splash-water, possibly must a cover be installed.

Adjustment:

Adjust the sensor on the background. After the connecting to the power supply the green LED illuminates. In case the yellow LEDs illuminate too, the detection range needs to be reduced with the detection range adjuster, until the yellow LEDs is switched off. If the object is moved into the detection range the yellow LEDs illuminates.

Driving inductive loads:

If the sensor are used to drive inductive loads, the following safety procedures must be carried out: For operating voltage of 10 ... 30 V DC: fit a protection diode, max. 200 mA

