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Model Number

ML8-8-HGU-220-RT/102/115

Convergent mode sensor with 2 m fixed cable

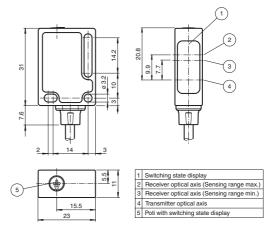
Features

- Miniature design
- Background interference suppression
- Mechanical adjustable detection range
- Not sensitive to ambient light, even with switched energy saving lamps
- Flexible mounting possibilities due to slotted hole

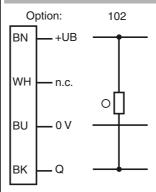
Product information

Small, robust and reliable, the ML8 series of miniature sensors is particularly suitable for non-contact detection of objects in confined spaces. The LED indicator is located behind the lens and provides reliable information on the sensor's operating status. The LED is always visible, even if the sensor is completely embedded. Flexible mounting options and fixed preset detection ranges simplify setup and operation.

Dimensions

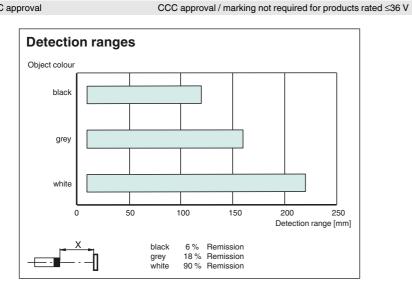


Electrical connection



- O = Light on
- = Dark on

Technical data General specifications 5 ... 220 mm Detection range Adjustment range 100 ... 220 mm standard white, 100 mm x 100 mm Reference target Light source LED, 645 nm modulated visible red light Light type Diameter of the light spot approx. 10 mm at detection range 220 mm Angle of divergence approx. 2.6 ° Ambient light limit EN 60947-5-2 Functional safety related parameters MTTF_d 830 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Function indicator 2 LEDs yellow, light up in case of detection Control elements Sensing range adjuster **Electrical specifications** Operating voltage 10 ... 30 V DC , class 2 Ripple max. 10 % < 15 mA No-load supply current Output Switching type light on Signal output 1 NPN output, short-circuit protected, reverse polarity protected, open collector Switching voltage max. 30 V DC Switching current max. 100 mA ≤ 1.5 V DC Voltage drop Switching frequency 500 Hz ≤ 1 ms Response time Conformity EN 60947-5-2 Product standard **Ambient conditions** -30 ... 60 °C (-22 ... 140 °F) Ambient temperature -40 ... 70 °C (-40 ... 158 °F) Storage temperature **Mechanical specifications** Housing width 11 mm Housing height 31 mm Housing depth 23 mm Degree of protection IP65/IP67 Connection 2 m fixed cable Material Housing PC (glass-fiber-reinforced Makrolon) Optical face **PMMA** approx. 50 g Tightening torque, fastening screws \leq 0.4 Nm Approvals and certificates **UL** approval cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval



Accessories

Montagekit OMH-ML7-01

Mounting set consisting of bracket OMH-ML-01 sheet OMH-ML7-03, and fastening material

Montagekit OMH-ML7-02

Mounting set consisting of bracket OMH-ML-02 sheet OMH-ML7-03, and fastening material

OMH-ML7-01

Mounting aid for ML7 and ML8 series, Mounting bracket

OMH-ML7-02

Mounting aid for ML7 and ML8 series, Mounting bracket

OMH-ML7-03

Mounting aid for ML7 and ML8 series, Fixing plate

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