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Model Number

ML8-8-HGU-50-RT/102/115/162

Convergent mode sensor with 2 m fixed cable

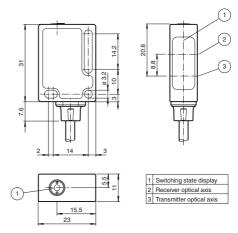
Features

- Diffuse mode sensor with long, narrow light spot
- Specially designed for detecting critical objects such as PCBs
- Background interference suppression
- · Tamper-proof, no operating controls
- Plug and Play
- Not sensitive to ambient light, even with switched energy saving lamps

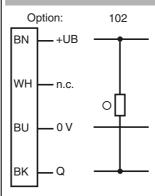
Product information

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

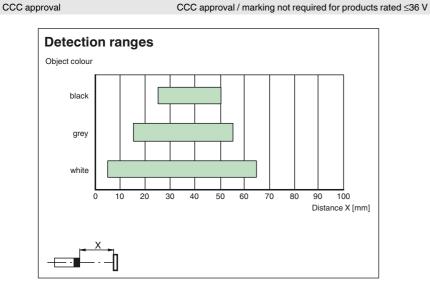


Electrical connection



- O = Light on
- = Dark on

Technical data General specifications 25 ... 50 mm Detection range Reference target standard black, 100 mm x 100 mm LED, 645 nm Light source Light type modulated visible red light Diameter of the light spot approx. 4 mm x 35 mm at 50 mm Angle of divergence Emitter 1.5° vertical 35° horizontal Ambient light limit EN 60947-5-2 Functional safety related parameters MTTF_d 830 a Mission Time (T_M) 20 a 0 % Diagnostic Coverage (DC) Indicators/operating means Function indicator 2 LEDs yellow, light up in case of detection **Electrical specifications** 10 ... 30 V DC , class 2 Operating voltage max. 10 % Ripple No-load supply current < 20 mA Output Switching type light on 1 NPN output, short-circuit protected, reverse polarity protected, Signal output open collector Switching voltage max. 30 V DC Switching current max. 100 mA ≤ 1.5 V DC Voltage drop Response time 1 ms Conformity Product standard EN 60947-5-2 **Ambient conditions** -20 ... 60 °C (-4 ... 140 °F) Ambient temperature -40 ... 70 °C (-40 ... 158 °F) Storage temperature Mechanical specifications Housing width 23 mm Housing height 31 mm Housing depth 11 mm IP65 / IP67 Degree of protection Connection 2 m fixed cable Material Housing PC (glass-fiber-reinforced Makrolon) Optical face **PMMA** Mass approx. 50 g Approvals and certificates cULus Listed, Class 2 Power Source, Type 1 enclosure UL 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

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