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Model Number

ML8-8-HGU-220-RT/103/115b

Convergent mode sensor with fixed cable and M12 connector, 4-pin

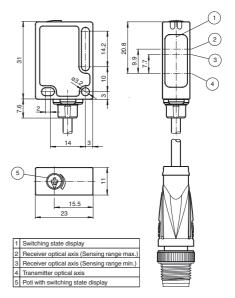
Features

- 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

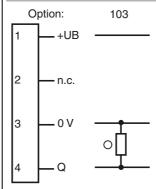
Product information

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

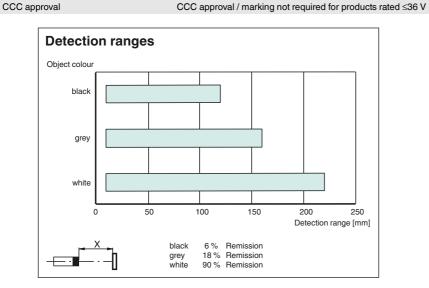


- O = Light on
- = Dark on

Pinout



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 Detection 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 PNP 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 Response time ≤ 1 ms **Ambient conditions** Ambient temperature -30 ... 60 °C (-22 ... 140 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature Mechanical specifications Degree of protection fixed cable 300 mm with M12 connector, 4-pin Connection Materia PC (glass-fiber-reinforced Makrolon) Housing Optical face PMMA Mass approx. 20 g ≤ 0.4 Nm Tightening torque, fastening screws Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC Standard conformity Product standard EN 60947-5-2:2007 Degree of protection EN 60529 Standards EN 50178, UL 508 Approvals and certificates **UL** approval cULus Listed, Class 2 Power Source, Type 1 enclosure



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 bracket

OMH-ML7-02

Mounting bracket

OMH-ML7-03

Fixing plate

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