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Model Number

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

Background suppression sensor with 2 m fixed cable

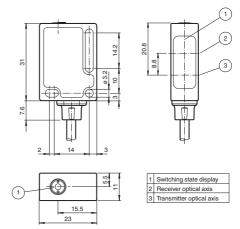
Features

- Diffuse mode sensor with multiple light spots
- Specially designed for detecting critical objects such as PCBs
- Detects objects in front of a close background through precise background suppression
- Precision object detection, almost irrespective of the color
- Tamper-proof, no operating controls
- Plug and Play
- Not sensitive to ambient light, even with switched energy saving lamps

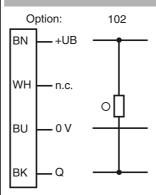
Product information

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



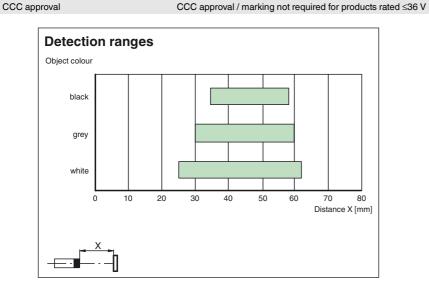
Electrical connection



- O = Light on
- = Dark on

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Technical data General specifications 20 ... 50 mm Detection range Reference target standard black, 100 mm x 100 mm LED Light source Light type modulated visible red light, 640 nm Black/White difference (6 %/90 %) < 10 % Diameter of the light spot 2 light spots, 11 mm apart, spotsize 4 mm at a distance of 50 mm Ambient light limit EN 60947-5-2 Functional safety related parameters MTTF_d 794 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 **Electrical specifications** 10 ... 30 V DC , class 2 Operating voltage max. 10 % Ripple < 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 Voltage drop ≤ 1.5 V DC Switching frequency f 500 Hz Response time 1 ms **Ambient conditions** Ambient temperature -20 ... 60 °C (-4 ... 140 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature **Mechanical specifications** Protection degree IP67 Connection 2 m fixed cable Material Housing PC (glass-fiber-reinforced Makrolon) Optical face Mass approx. 50 g Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC Standard conformity EN 60947-5-2:2007 Product standard Protection degree 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

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