









Model Number

ML8-54-F-5771

Retroreflective sensor

300 mm fixed cable with M12 x 1, 4-pin connector

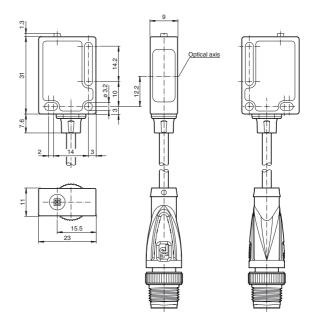
Features

- Cost-optimized series for standard tasks
- · Miniature design
- Coaxial optical system
- Usable up to detection range 0
- High accuracy for precise positioning operations
- Flexible use with versatile mounting opportunities

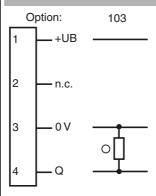
Product information

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

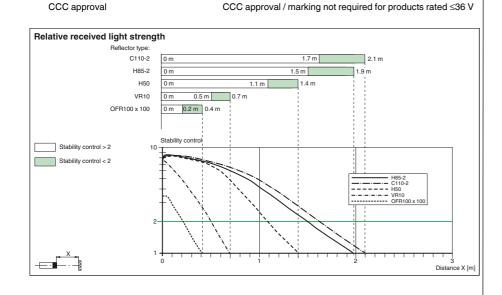
Pinout

Wire colors in accordance with EN 60947-5-2



1	BN	(brow
2	WH	(white
3	BU	(blue)
4	BK	(black

Technical data General specifications Effective detection range 0 ... 1.5 m 0 ... 1.5 m Reflector distance Threshold detection range 1.9 m H85-2 reflector Reference target Light source LFD Light type modulated visible red light, 660 nm Polarization filter yes Angle deviation max. ± 1° Diameter of the light spot approx. 40 mm at detection range 1 m Angle of divergence 1.7 40000 Lux Ambient light limit Functional safety related parameters 980 a MTTF_d Mission Time (T_M) 20 a 0 % Diagnostic Coverage (DC) Indicators/operating means Function indicator LED, yellow switching state Stability control **Electrical specifications** 10 ... 30 V DC Operating voltage U_{B} max. 10 % Ripple No-load supply current < 20 mA at 24 V DC Output Switching type liaht 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 Switching frequency 1 kHz Response time 500 μs Conformity Product standard EN 60947-5-2 Ambient conditions -30 ... 60 °C (-22 ... 140 °F) Ambient temperature Storage temperature -40 ... 75 °C (-40 ... 167 °F) Mechanical specifications Housing width 11 mm Housing height 31 mm Housing depth 23 mm Degree of protection IP67 fixed cable 300 mm with M12 x 1 connector, 4-pin Connection Material Housing PC (glass-fiber-reinforced Makrolon) Optical face **PMMA** 30 g Mass Approvals and certificates Protection class II, rated voltage ≤ 50 V AC with pollution degree 1-2 according to IEC 60664-1 functional insulation acc. to DIN EN 50178 **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 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