



**Model Number**

**ML8-55-3476/102**

Retroreflective sensor  
with 2 m fixed cable

**Features**

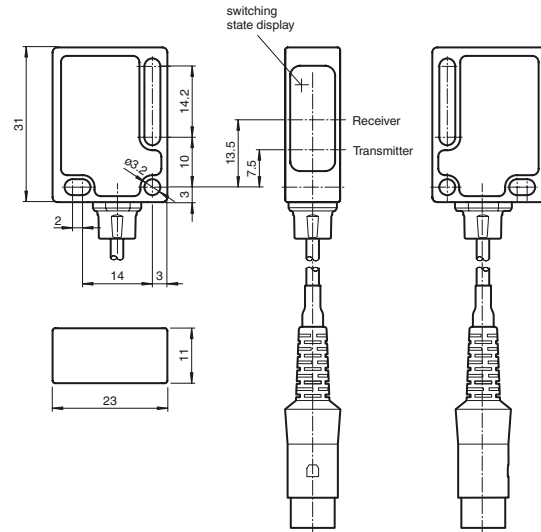
- Cost-optimized series for standard tasks
- Miniature design
- DIN-connector
- Yellow LED indicator behind the front panel
- Flexible mounting possibilities due to slotted hole

**Product information**

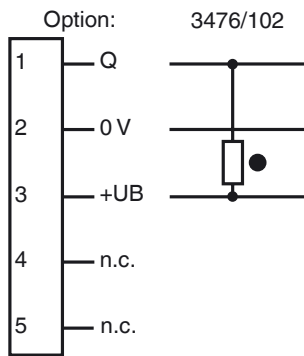
Small, robust and reliable, the ML8 series of miniature sensors is particularly suitable for non-contact detection of objects in confined spaces. The LED indicator is located behind the lens and provides reliable information on the sensor's operating status. The LED is always visible, even if the sensor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

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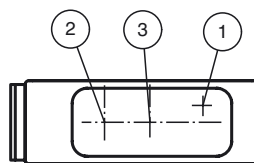
**Dimensions**



**Electrical connection**



**Indicators/operating means**



1	Switching state	yellow
2	Emitter	
3	Receiver	

**Technical data****General specifications**

Effective detection range	0 ... 2.5 m
Reflector distance	0.02 ... 2.5 m
Threshold detection range	2.8 m
Reference target	H85-2 reflector
Light source	LED
Light type	modulated visible red light
Polarization filter	yes
Diameter of the light spot	approx. 180 mm at a distance of 3.5 m
Angle of divergence	approx. 3 °
Ambient light limit	40000 Lux

**Functional safety related parameters**

MTTF <sub>d</sub>	2340 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

**Indicators/operating means**

Function indicator	LED yellow: switching state
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**Electrical specifications**

Operating voltage	U <sub>B</sub>	10 ... 30 V DC
Ripple		max. 10 %
No-load supply current	I <sub>0</sub>	< 12 mA

**Output**

Switching type	dark on	
Signal output	1 NPN, short-circuit protected, open collector, not protected from reverse polarity	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Voltage drop	U <sub>d</sub>	≤ 1.5 V DC
Response time		1.8 ms

**Conformity**

Product standard	EN 60947-5-2
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**Ambient conditions**

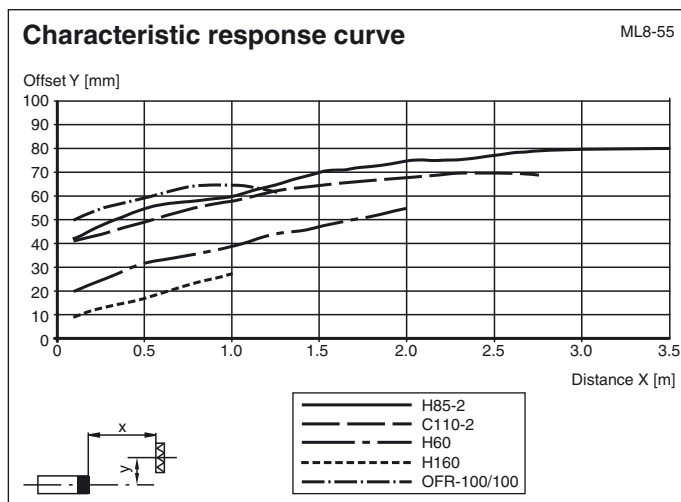
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-40 ... 75 °C (-40 ... 167 °F)

**Mechanical specifications**

Housing width	23 mm
Housing height	31 mm
Housing depth	11 mm
Degree of protection	IP67
Connection	2 m fixed cable with connector acc. to DIN 41524, 5-pin
Material	
Housing	PC (glass-fiber-reinforced Makrolon)
Optical face	PMMA
Mass	approx. 60 g

**Approvals and certificates**

UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval	CCC approval / marking not required for products rated ≤36 V

**Curves/Diagrams****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

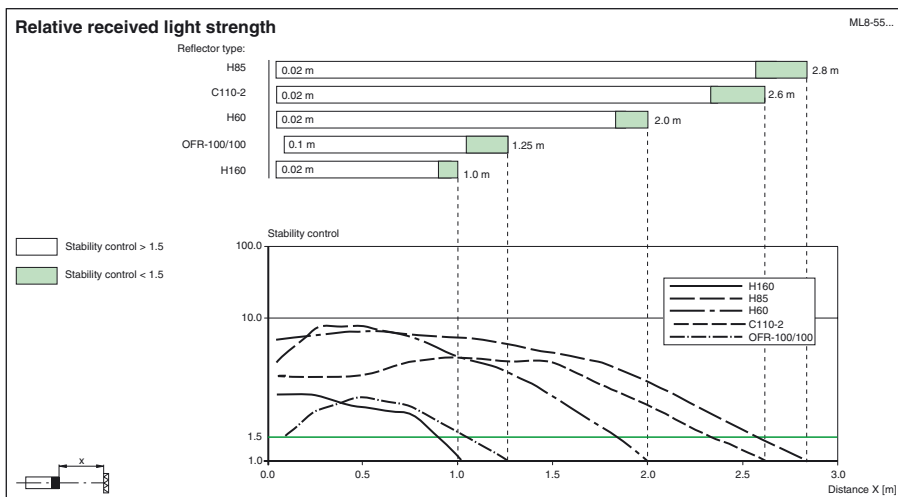
**OMH-ML7-02**

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](http://www.pepperl-fuchs.com)



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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