

CE

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 ٠
- High accuracy for precise positioning operations
- Flexible use with versatile mounting ٠ 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.



Electrical connection

Dimensions



Pinout





Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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Technical data		
General specifications		
Effective detection range		0 1.5 m
Reflector distance		0 1.5 m
Threshold detection range		1.9 m
Reference target		H85-2 reflector
Light source		LED
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 °
Ambient light limit		40000 Lux
Functional safety related par	ameters	
MTTF _d		980 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		LED, yellow switching state Stability control
Electrical specifications		
Operating voltage	UB	10 30 V DC
Ripple	U	max. 10 %
No-load supply current	l ₀	< 20 mA at 24 V DC
Output	Ū	
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
Switching frequency	f	1 kHz
Response time		500 μs
Conformity		
Product standard		EN 60947-5-2
Ambient conditions		
Ambient temperature		-30 60 °C (-22 140 °F)
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
Connection		fixed cable 300 mm with M12 x 1 connector , 4-pin
Material		
Housing		PC (glass-fiber-reinforced Makrolon)
Optical face		PMMA
Mass		30 g
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 CCC approval



functional insulation acc. to DIN EN 50178

cULus Listed, Class 2 Power Source, Type 1 enclosure

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

Accessories

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