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Model Number

ML7-55-3419/59/82b/103/115b

Retroreflective sensor

1200 mm fixed cable with Mate-N-Lok connector

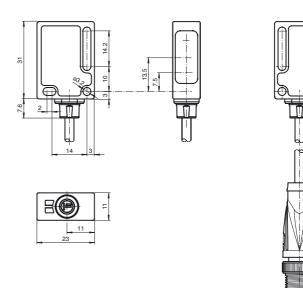
Features

- Miniature design
- Automatic adjustment of sensitivity via TEACH-IN
- Clearly visible function indicators
- Flashing power on LED in case of short-circuit
- Yellow LED indicator behind the front panel
- · Not sensitive to ambient light
- Protected against mutual interference (no crosstalk)

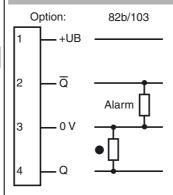
Product information

Small, robust, effective, and reliable - these are the properties of the ML7 sensor series. Due to their small size, number of versions, and two different lens positions, they are particularly suited for installation in tight spaces. The robust design and high quality of Pepperl+Fuchs mean they can also be used under harsh environmental conditions. The efficient technology, switching frequencies up to 1000 Hz, high resistance to ambient light, and 4-in-1 output make the series suitable for non-contact object detection.

Dimensions



Electrical connection

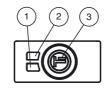


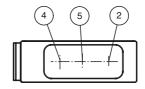
- O = Light on
- = Dark on

Pinout



Indicators/operating means





1	Operating display	green
2	Signal display	yellow
3	TEACH-IN button	
4	Emitter	
5	Receiver	

	0 3 m	
	0.03 3 m	
	3.5 m	
	H85-2 reflector	
	LED	
	modulated visible red light	
	approx. 180 mm at a distance of 2.5 m	
	approx. 4.5 °	
	40000 Lux	
ters		
	1530 a	
	20 a	
	0 %	
	LED green, flashes in case of short-circuit	
	LED yellow, lights up when light beam is free, flashes when falling short of the stability control	
	TEACH-IN key	
U_B	10 30 V DC , class 2	
	max. 10 %	
I ₀	< 20 mA	
	1 PNP, inactive when level falls below function reserve after approx. 5 s. Immediately inactive if the beam is interrupted 4 times during the flashtime.	
	dark on	
	1 PNP output, short-circuit protected, protected from reverse polarity, open collector	
	max. 30 V DC	
	max. 100 mA	
U _d	≤ 1.5 V DC	
f	1000 Hz	
	0.5 ms	
	-20 60 °C (-4 140 °F)	
	-40 75 °C (-40 167 °F)	
	IP65	
	1200 mm fixed cable with Mate-N-Lok connector	
	PC (glass-fiber-reinforced Makrolon)	
	PMMA	
	approx. 50 g	
directi-		
	EN 60947-5-2:2007 IEC 60947-5-2:2007	
	EN 50178, UL 508	
	U _B	

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Accessories

Montagekit OMH-ML7-01

Mounting set consisting of bracket OMH-ML-01 sheet ONH-ML7-03, and fastening material

Montagekit OMH-ML7-02

Mounting set consisting of bracket OMH-ML-02 sheet ONH-ML7-03, and fastening material

OMH-ML7-01

Mounting bracket

OMH-ML7-02

Mounting bracket

OMH-ML7-03

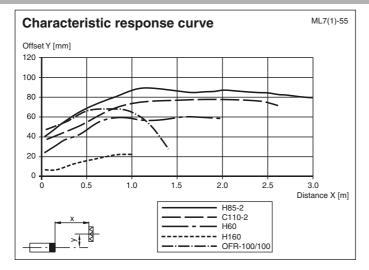
Fixing plate

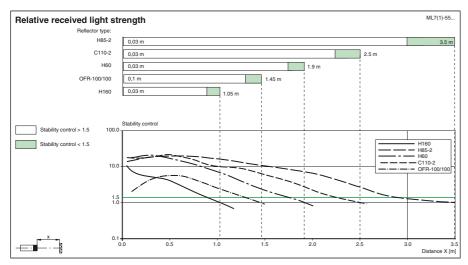
Suitable reflectors and cable sockets can be found in the Internet

EPPERL+FUCHS

UL approval

Curves/Diagrams





Teach-In

Connect the sensor to operating voltage, the LED green lights up constantly. The sensor operates at max. sensitivity (delivery status) or with the last teached values.

Mount suitable reflector opposite light beam switch.

- Adjust the unit to the reflector.
- Press the Teach-In button as an acknowledgement the green LED will quickly turn off one time.
- Press the Teach-In button until both LEDs green and yellow are blinking in parallel (2Hz). Release the Teach-In button now.
- While the green and yellow LEDs are blinking alternating (2 Hz) the unit is in the internal set up procedure.
- Teach-In successful: Both LEDs green and yellow are on. The unit is ready to use and in switching mode now.
- Teach-In not successful: Both LEDs are flashing alternating (4 Hz) for approx. 5 seconds. Afterwards the sensor returns to max. sensitivity setting. Please retry the Teach-In procedure beginning by step 1.

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