

Model Number

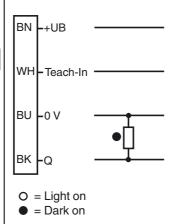
ML9-54/59/103/115/123/134a

Retroreflective sensor with 2 m fixed cable

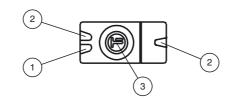
Features

- ٠ Ultra bright LEDs for power on, pre fault indication and switching state
- Flashing power on LED in case of ٠ short-circuit
- TEACH-IN •
- Not sensitive to ambient light, even with switched energy saving lamps
- Protected against mutual interference ٠ (no cross-talk)
- Protection class II •

Electrical connection



Indicators/operating means



1	LED green
2	LED yellow
3	Teach-In

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

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Other suitable accessories can be found at

OMH-ML9 Mounting bracket OMH-ML9-01 Threaded bolt M3

www.pepperl-fuchs.com

Effective detection range 05 m Effective detection range 6 m Reference target HB5-2 reflector Light source LED Light source LED Diameter of the light spot approx. 110 mm at a distance of 3 m Angle of divergence approx. 110 mm at a distance of 3 m Angle of divergence approx. 110 mm at a distance of 3 m Angle of divergence approx. 110 mm at a distance of 3 m Angle of divergence approx. 110 mm at a distance of 3 m Angle of divergence approx. 110 mm at a distance of 3 m Mission Time (T _k) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Deverage (DC) Operation indicator LED green, statically lit Power on , Undervoltage indicator: Control elements Teach-in key Electrical specifications Teach-in key Operating voltage Up 10 30 V DC , class 2 Ripple max. 10 % No-load supply current No-load supply current Up < 20 mA at 24 V Signal output 1 PNP output, short-circuit protect			
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			IEC 60947-5-2:2007
Approvals and certificates	Standards		EN 50178, UL 508
	Approvals and certificates		
Protection class II, rated voltage \leq 50 VAC with pollution degree 1-2 according to IEC 60664-1	Protection class		
UL approval cULus	UL approval		cULus
CCC approval CCC approval / marking not required for products rated ≤36 V	CCC approval		CCC approval / marking not required for products rated \leq 36 V

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001

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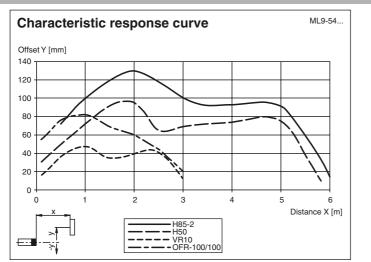
fa-info@us.pepperl-fuchs.com

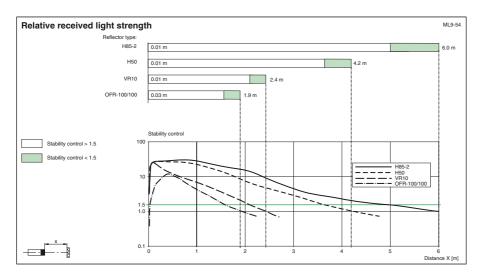
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Curves/Diagrams





Setting Instructions

Setting Instructions for Devices with Teach-In

After the operating voltage is applied, the green LED lights up. The sensor is automatically in max. sensitivity status (state as supplied) or in the status of the most recent Teach-In setting.

Mount a suitable reflector opposite the photoelectric sensor.

Teach-In with the Teach key

- Align the sensor to a suitable reflector.
- Press the Teach key. The green LED indicator light goes off briefly to confirm this.
- Hold down the Teach key until the yellow and green indicator LEDs flash synchronously (about 2.5 Hz). Then release the Teach key
- During internal setup of the sensor, the green and yellow indicator LEDs flash alternately (about 2.5 Hz).
- . Teach-In successful: The green and yellow indicator LEDs are lit. The device is ready for operation.
- Teach-In not successful: The green and yellow indicator LEDs flash quickly and alternately (about 8 Hz) for about 5 seconds. Then the sensor switches to the status with maximum sensitivity. After that, repeat the Teach-In procedure, starting with step 1.

Teach-In via external Teach-In input (ET)

Teach-In can also be initiated via the external Teach-In input (ET)

To do this, the ET must be open (or at 0 V) for at least 50 ms, after which +UB is applied for a duration of 50 to 80 ms.

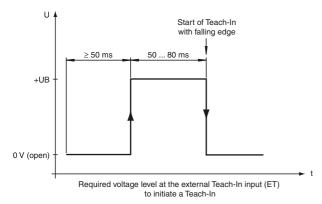
USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Teach-In lasts for a maximum of 11 seconds (if not successful)





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