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Model Number

ML17-54/115b/136

Retroreflective sensor with fixed cable and M12 connector, 4-pin

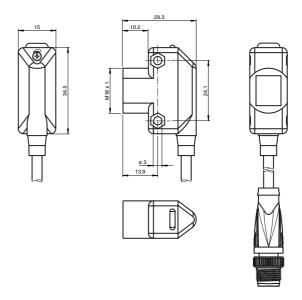
Features

- Compact series in universal housing for standard applications
- · Miniature design
- Front mounting with M18-threads or side mounting holes
- 360° high visibility LEDs
- Time-saving mounting with quick clamp system
- Version with polarized filters detect shiny objects
- 4-in-1 output (push-pull)

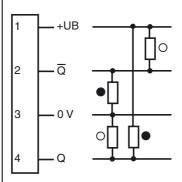
Product information

The ML17 sensor family offers diverse connection and installation options, which means that it can adapt to the most varied automation tasks. In addition to the usual fitting method using M4 screws, these sensors can also be installed by means of M18 threaded insert. All devices are equipped with a green Power On display and a yellow function display. These displays are arranged in such a way that they are clearly visible from different directions.

Dimensions



Electrical connection



- O = Light on
- = Dark on

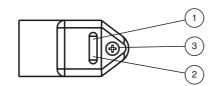
Pinout

Wire colors in accordance with EN 60947-5-2



2 WH (whit 3 BU (blue 4 BK (blac

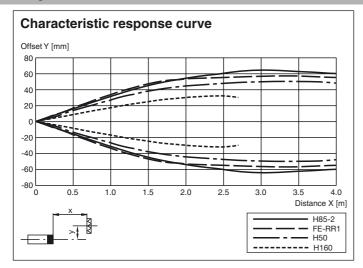
Indicators/operating means



	1	Signal display	yellow
	2	Operating display	green
	3	Sensitivity adjustment	

Technical data General specifications Effective detection range 0 ... 3.5 m Reflector distance 50 ... 3500 mm Threshold detection range 5 m FE-RR1 reflector Reference target Light source LED Light type modulated visible red light, 626 nm Polarization filter ≤ 10000 Lux Ambient light limit Indicators/operating means Operation indicator LED green Function indicator LED yellow, lights up with receiver lit Control elements sensitivity adjustment **Electrical specifications** 10 ... 30 V DC, class 2 Operating voltage U_B max. 10 % Ripple < 25 mA No-load supply current I_0 Operating current 100 mA max per output I_B Time delay before availability ≤ 200 ms t_v Output Switching type light/dark on Signal output 2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected max. 30 V DC Switching voltage Switching current max. 100 mA U_d ≤ 2 V DC Voltage drop Switching frequency 500 Hz Response time < 1 ms Conformity Product standard EN 60947-5-2 **Ambient conditions** Ambient temperature -20 ... 55 °C (-4 ... 131 °F) -20 ... 70 °C (-4 ... 158 °F) Storage temperature **Mechanical specifications** Housing width 15 mm Housing height Degree of protection IP67 Connection 150 mm PVC cable with 4-pin, M12 connector Material Housing ABS Optical face Acrylic approx. 23 g Mass Approvals and certificates **UL** approval cULus CCC approval CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams



Accessories

OMH-ML17-EZ

Mounting bracket

OMH-ML17

Mounting bracket

OMH-ML17-1

Mounting bracket

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com