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## **Model Number**

## ML17-54/136/143

Retroreflective sensor with 4-pin, M8 x 1 connector

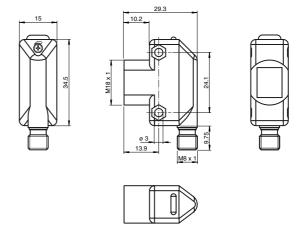
## **Features**

- 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

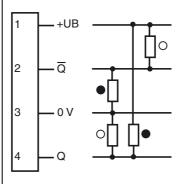
# **Product information**

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**

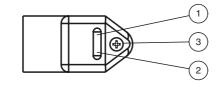


- O = Light on
- = Dark on

## **Pinout**



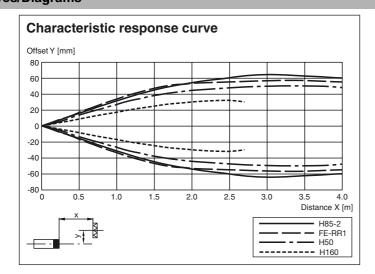
## Indicators/operating means



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 5 m Threshold detection range FE-RR1 reflector Reference target Light source LED modulated visible red light, 626 nm Light type Ambient light limit $\leq$ 10000 Lux Indicators/operating means Operating display LED green Function display LED yellow, lights up with receiver lit sensitivity adjustment Controls **Electrical specifications** Operating voltage 10 ... 30 V DC , class 2 max. 10 % Ripple No-load supply current < 25 mA 100 mA max per output Operating current Time delay before availability ≤ 200 ms Output light/dark on Switching type Signal output 2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected Switching voltage max. 30 V DC Switching current max. 100 mA $\leq$ 2 V DC Voltage drop $U_{d}$ Switching frequency f 500 Hz Response time ≤ 1 ms **Ambient conditions** -20 ... 55 °C (-4 ... 131 °F) Ambient temperature Storage temperature -20 ... 75 °C (-4 ... 167 °F) Mechanical specifications Protection degree IP67 Connection M8 x 1 connector, 4-pin Material Housing ABS Optical face Acrylic Mass approx. 8.5 g Compliance with standards and directives Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates cULus UL approval CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

# Curves/Diagrams



## **Accessories**

## OMH-ML17-EZ

Mounting bracket

### OMH-ML17

Mounting bracket

## OMH-ML17-1

Mounting bracket

## V31-WM-2M-PUR

4-pin, M8 socket, PUR cable

## V31-GM-2M-PUR

4-pin, M8 socket, PUR cable

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