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# **Model Number**

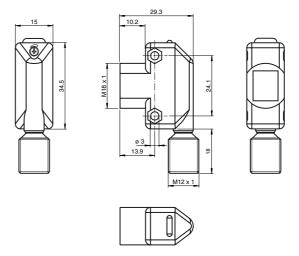
#### ML17-54/73/136

Retroreflective sensor with 4-pin, M12 x 1 connector

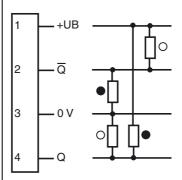
# **Features**

- 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
- 4-in-1 output (push-pull)

# **Dimensions**



# **Electrical connection**



- O = Light on
- = Dark on

### **Pinout**

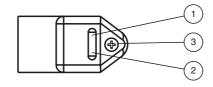
Wire colors in accordance with EN 60947-5-2

1 | BN (brown)



1 BN (brown)
2 WH (white)
3 BU (blue)
4 BK (black)

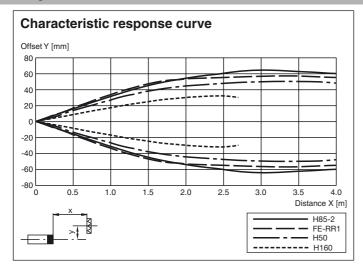
# **Indicators/operating means**



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 LFD 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<sub>d</sub> ≤ 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 34.5 mm Degree of protection IP67 Connection 4-pin, M12 x 1 connector Material Housing ABS Optical face Acrylic approx. 8.5 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

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