Dimensions



CE

Model Number

ML17-54/136/143

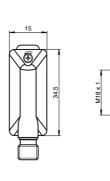
Retroreflective sensor with 4-pin, M8 x 1 connector

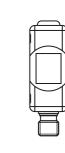
Features

- Compact series in universal housing • for standard applications
- Miniature design ٠
- 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 ٠ 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.



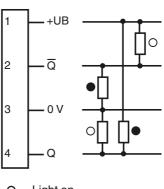




29.3

10.2

Electrical connection

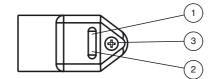




Pinout



Indicators/operating means



1	Signal display	yellow
2	Operating display	
3	Sensitivity adjustment	

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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

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Technical data	
General specifications	
Effective detection range	
Reflector distance	
Threshold detection range	
Reference target	
Light source	
Light type	
Polarization filter	
Ambient light limit	
Indicators/operating means	
Operation indicator	
Function indicator	
Control elements	
Electrical specifications	
Operating voltage	UE
Ripple	
No-load supply current	I ₀
Operating current	۱ _B
Time delay before availability	t _v
Output	
Switching type	
Signal output	
Switching voltage	
Switching current	
Voltage drop	Ud
Switching frequency	f
Response time	
Conformity	
Product standard	
Ambient conditions	
Ambient temperature	
Storage temperature	
Mechanical specifications	
Housing width	
Housing height	
Degree of protection	
Connection	
Material	

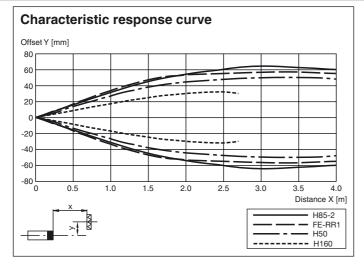
0 3.5 m
50 3500 mm
5 m
FE-RR1 reflector
LED
modulated visible red light , 626 nm
yes
≤ 10000 Lux
LED green
LED yellow, lights up with receiver lit
sensitivity adjustment
10 30 V DC , class 2
max. 10 %
< 25 mA
100 mA max per output
≤ 200 ms
light/dark on
2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected
max. 30 V DC
max. 100 mA
\leq 2 V DC
500 Hz
≤ 1 ms
EN 60947-5-2
-20 55 °C (-4 131 °F)
-20 70 °C (-4 158 °F)
15 mm
34.5 mm
IP67
M8 x 1 connector, 4-pin
ABS
Acrylic
approx. 8.5 g
cULus
CCC approval / marking not required for products rated ≤36 V

UL approval CCC approval

Approvals and certificates

Housing Optical face Mass

Curves/Diagrams



Accessories

OMH-ML17-EZ Mounting bracket

OMH-ML17 Mounting bracket

OMH-ML17-1 Mounting bracket

V31-WM-2M-PUR Female cordset single-ended, M8, 4-pin, PUR cable

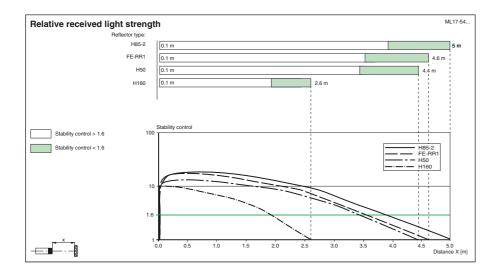
V31-GM-2M-PUR

Female cordset single-ended, M8, 4-pin, PUR cable

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

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