



Model Number

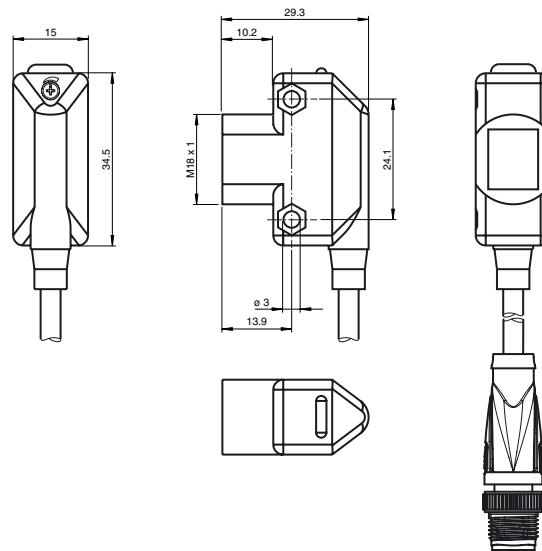
ML17-54/115b/120

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

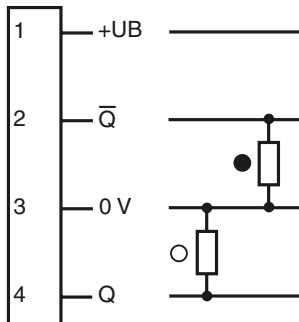
Features

- 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

Dimensions

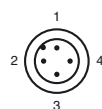


Electrical connection



○ = Light on
● = Dark on

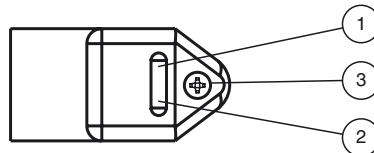
Pinout



Wire colors in accordance with EN 60947-5-2

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	

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Technical data**General specifications**

Effective detection range	0 ... 3.5 m
Reflector distance	50 ... 3500 mm
Threshold detection range	5 m
Reference target	FE-RR1 reflector
Light source	LED
Light type	modulated visible red light , 626 nm
Polarization filter	yes
Ambient light limit	≤ 10000 Lux

Indicators/operating means

Operation indicator	LED green
Function indicator	LED yellow, lights up with receiver lit
Control elements	sensitivity adjustment

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I_0	< 25 mA
Operating current	I_B	100 mA max per output
Time delay before availability	t_v	≤ 200 ms

Output

Switching type	light/dark on	
Signal output	2 PNP, short-circuit protected, reverse polarity protected , open collectors	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Voltage drop	U_d	≤ 2 V DC
Switching frequency	f	500 Hz
Response time		≤ 1 ms

Conformity

Product standard	EN 60947-5-2
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Ambient conditions

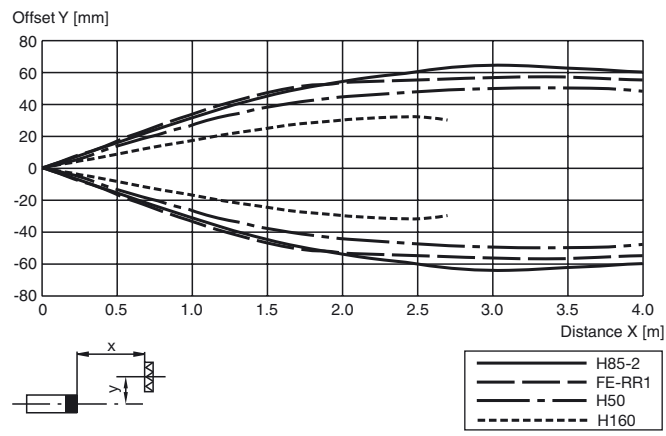
Ambient temperature	-20 ... 55 °C (-4 ... 131 °F)
Storage temperature	-20 ... 70 °C (-4 ... 158 °F)

Mechanical specifications

Housing width	15 mm
Housing height	34.5 mm
Degree of protection	IP67
Connection	fixed cable 150 mm with M12 x 1 male connector, 4 pin
Material	
Housing	ABS
Optical face	Acrylic
Mass	approx. 23 g

Approvals and certificates

UL approval	cULus
CCC approval	CCC approval / marking not required for products rated ≤36 V

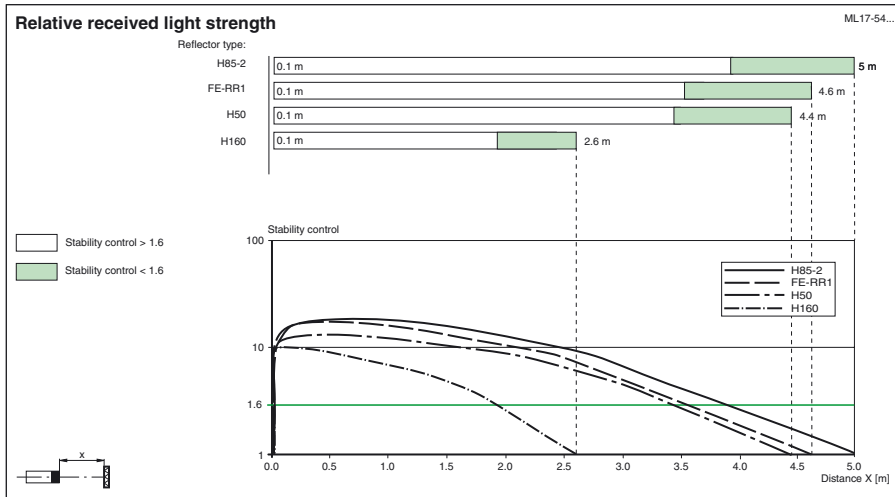
Curves/Diagrams**Characteristic response curve****Accessories**

OMH-ML17-EZ
Mounting bracket

OMH-ML17
Mounting bracket

OMH-ML17-1
Mounting bracket

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



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