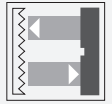




## Retroreflective sensor

### ML17-6/115a/136

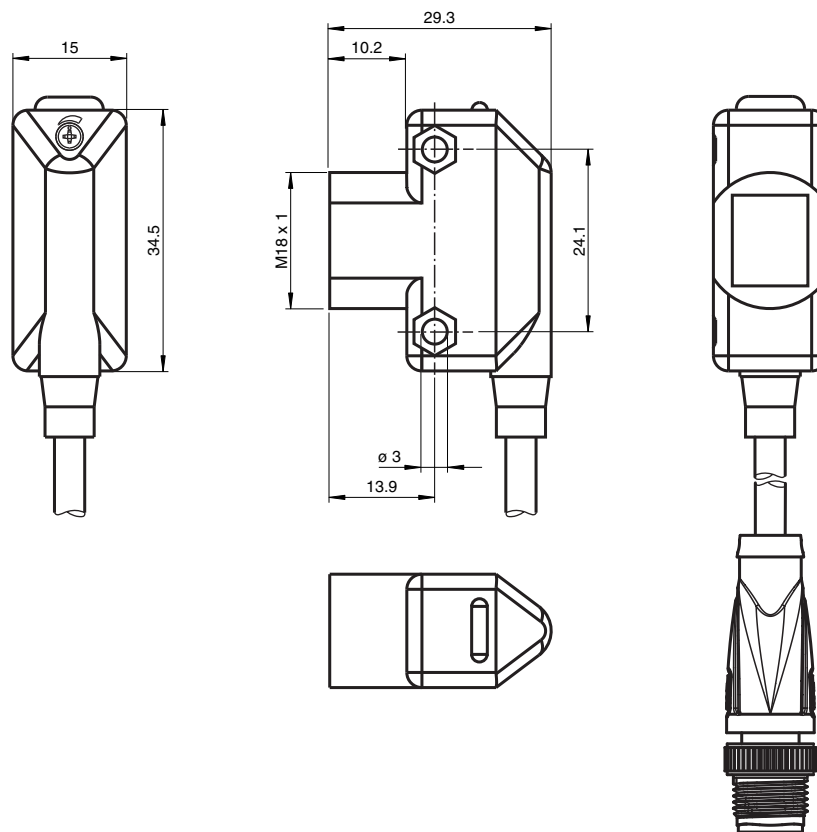


- Compact series in universal housing for standard applications
- Miniature design
- Front mounting with M18-threads or side mounting holes
- 360° high visibility LEDs
- Time-saving mounting with quick clamp system
- Long-range nonpolarized model
- 4-in-1 output (push-pull)

Retroreflective sensor without polarization filter



## Dimensions



## Technical Data

### General specifications

Effective detection range	0 ... 6.5 m
Reflector distance	50 ... 6500 mm
Threshold detection range	9 m
Reference target	FE-RR1 reflector H50 reflector

Release date: 2020-09-15 Date of issue: 2020-09-15 Filename: 909107\_eng.pdf

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

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## Technical Data

Light source	LED	
Light type	modulated visible red light , 626 nm	
Polarization filter	no	
Ambient light limit	≤ 10000 Lux	
<b>Indicators/operating means</b>		
Operation indicator	LED green	
Function indicator	LED yellow, lights up with receiver lit	
Control elements	sensitivity adjustment	
<b>Electrical specifications</b>		
Operating voltage	$U_B$	10 ... 30 V DC , class 2
Ripple	max. 10 %	
No-load supply current	$I_0$	< 25 mA
Time delay before availability	$t_v$	≤ 200 ms
<b>Output</b>		
Switching type	light/dark on	
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	
Voltage drop	$U_d$	≤ 2 V DC
Switching frequency	$f$	500 Hz
Response time	≤ 1 ms	
<b>Compliance with standards and directives</b>		
Standard conformity		
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007	
<b>Approvals and certificates</b>		
UL approval	cULus	
<b>Ambient conditions</b>		
Ambient temperature	-20 ... 55 °C (-4 ... 131 °F)	
Storage temperature	-20 ... 75 °C (-4 ... 167 °F)	
<b>Mechanical specifications</b>		
Housing width	15 mm	
Housing height	34.5 mm	
Degree of protection	IP67	
Connection	fixed cable 150 mm with M8 x 1 male connector, 4 pin	
Material		
Housing	ABS	
Optical face	Acrylic	
Mass	23 g	

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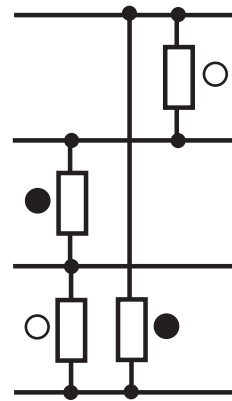
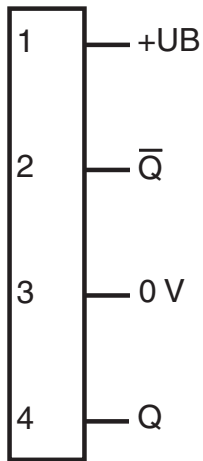
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**Connection Assignment**

Option:



○ = Light on  
● = Dark on

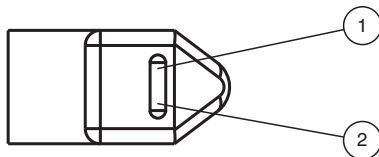
**Connection Assignment**



Wire colors in accordance with EN 60947-5-2

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

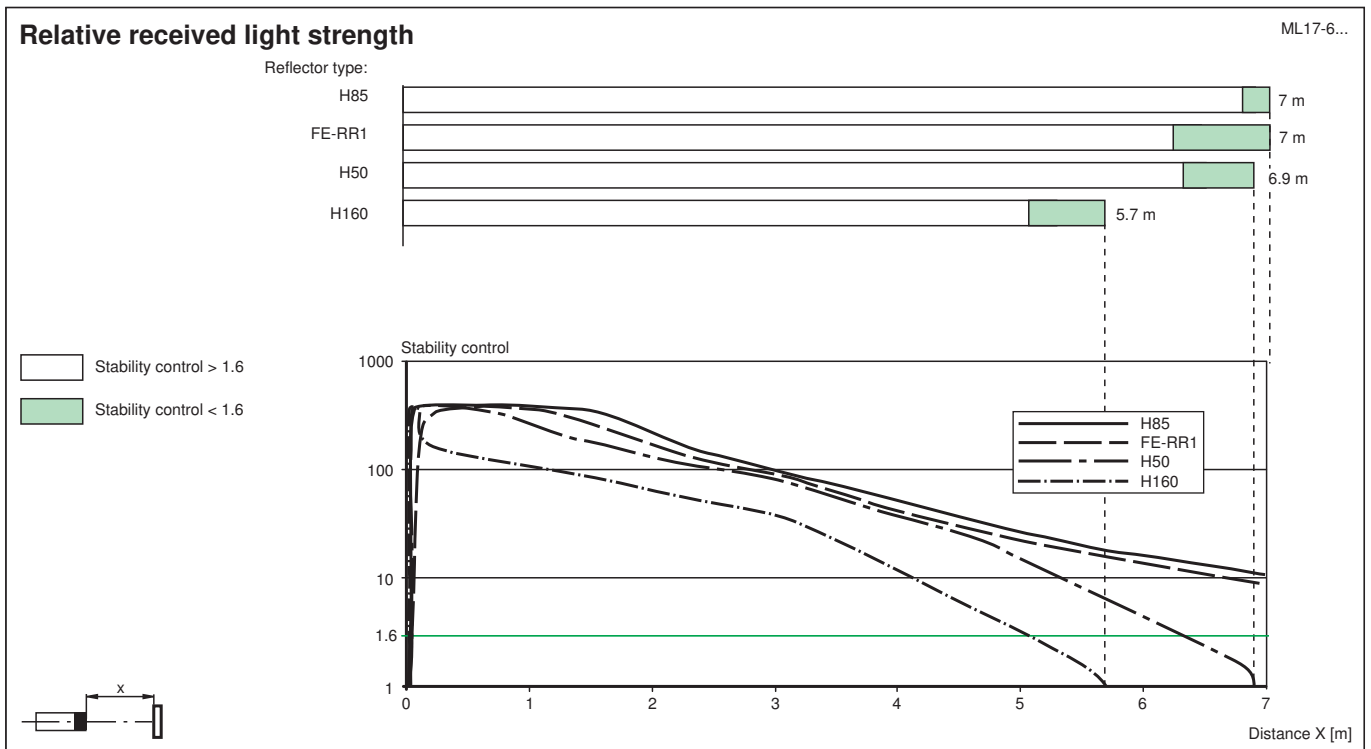
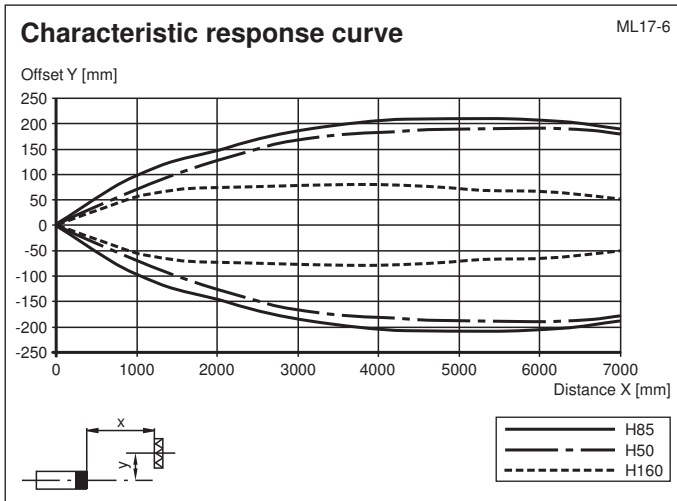
**Assembly**



1	Signal display	yellow
2	Operating display	green

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



## Accessories

	<b>OMH-ML17</b>	Mounting bracket
	<b>OMH-ML17-1</b>	Mounting bracket
	<b>V31-GM-2M-PUR</b>	Female cordset single-ended, M8, 4-pin, PUR cable
	<b>V31-WM-2M-PUR</b>	Female cordset single-ended, M8, 4-pin, PUR cable

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## Accessories

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

## Function

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.

## Application

- Presence monitoring
- Target sensors
- Congestion monitoring
- Track loading
- Completeness checks