



## Background suppression sensor ML17-8-H-50-RT/73/136

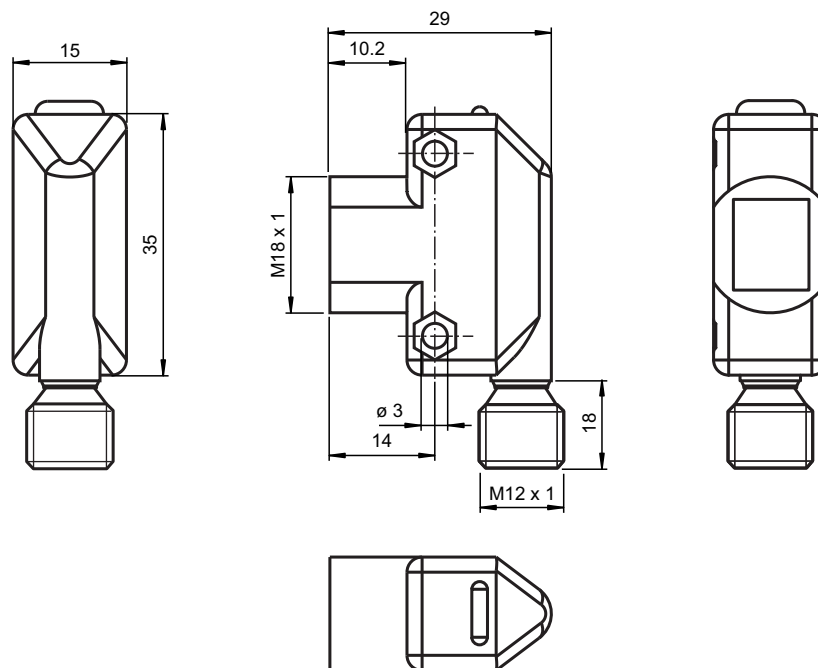


- Compact, versatile housing
- 360° high visibility LEDs
- Very low color sensitivity
- Front mounting with M18-threads or side mounting holes
- Sturdy, waterproof plastic housing
- Tamper-proof version with no adjustments

Background suppression sensor



### Dimensions



### Technical Data

#### General specifications

Detection range	10 ... 50 mm
Background suppression	starts from 65 mm
Reference target	standard black, 100 mm x 100 mm
Light source	LED

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

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

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## Technical Data

Light type	modulated visible red light , 640 nm	
Black-white difference (6 %/90 %)	≤ 10 %	
Diameter of the light spot	≤ 3 mm at 50 mm	
Opening angle	≤ 4 °	
Ambient light limit	≤ 40000 Lux	
<b>Indicators/operating means</b>		
Operation indicator	green LED , solid : Power on green LED , flashing: Short circuit/overload indication	
Function indicator	LED yellow, lights up with receiver lit	
<b>Electrical specifications</b>		
Operating voltage	$U_B$	10 ... 30 V DC , class 2
Ripple	max. 10 %	
No-load supply current	$I_0$	< 30 mA
Time delay before availability	$t_v$	≤ 100 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	$U_d$	≤ 2.5 V DC
Switching frequency	$f$	500 Hz
Response time	≤ 1 ms	
<b>Conformity</b>		
Product standard	EN 60947-5-2	
<b>Approvals and certificates</b>		
EAC conformity	TR CU 020/2011	
UL approval	cULus	
CCC approval	CCC approval / marking not required for products rated ≤36 V	
<b>Ambient conditions</b>		
Ambient temperature	-20 ... 55 °C (-4 ... 131 °F)	
Storage temperature	-20 ... 70 °C (-4 ... 158 °F)	
<b>Mechanical specifications</b>		
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	
Mass	approx. 9 g	

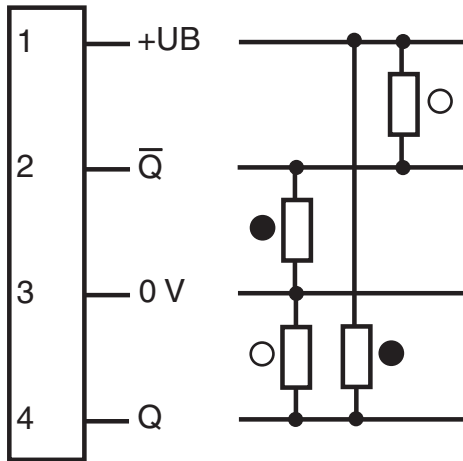
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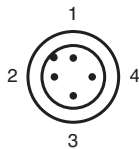
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**Connection**



○ = Light on  
● = Dark on

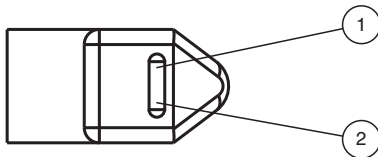
**Connection Assignment**



Wire colors in accordance with EN 60947-5-2

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

**Indication**

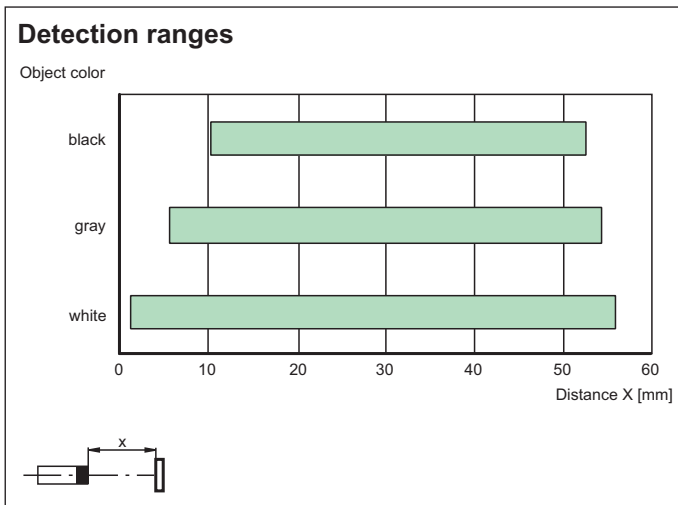
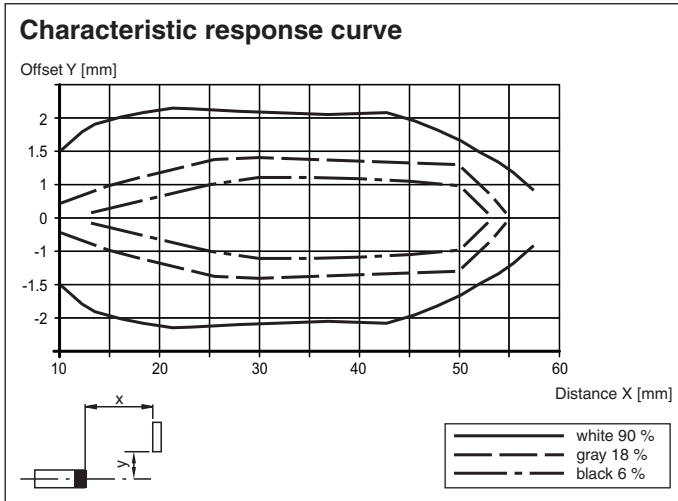


1	Signal display	yellow
2	Operating display	green

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**Characteristic Curve**



**Accessories**

	<b>OMH-ML17</b>	Mounting bracket
	<b>OMH-ML17-1</b>	Mounting bracket
	<b>V1-G-2M-PUR</b>	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
	<b>V1-W-2M-PUR</b>	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey

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