Model Number
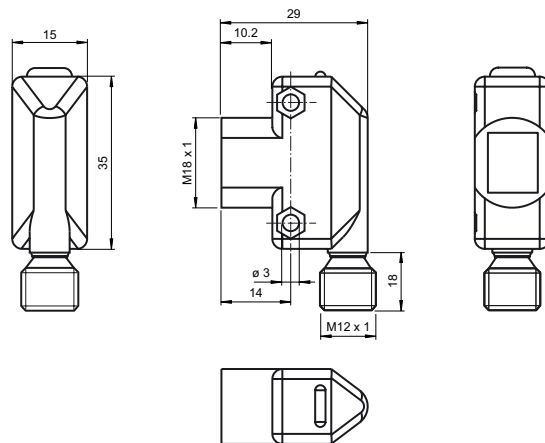
ML17-8-H-50-RT/73/136

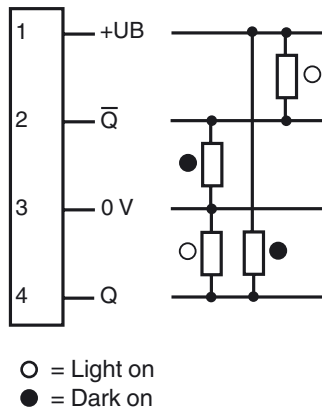Background suppression sensor
with 4-pin, M12 x 1 connector

Features

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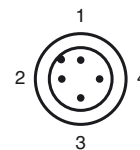- Tamper-proof version with no adjustments

Dimensions

Electrical connection

○ = Light on
● = Dark on

Pinout

Indicators/operating means
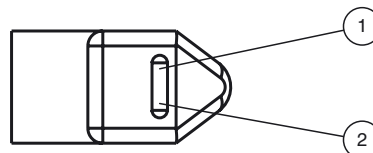
| 1 | Signal display | yellow |
| 2 | Operating display | green |

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

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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
Light type	modulated visible red light , 640 nm
Black/White difference (6 %/90 %)	≤ 10 %
Diameter of the light spot	≤ 3 mm at 50 mm
Angle of divergence	≤ 4 °
Ambient light limit	≤ 40000 Lux

Indicators/operating means

Operation indicator	green LED , solid : Power on green LED , flashing: Short circuit/overload indication
Function indicator	LED yellow, lights up with receiver lit

Electrical specifications

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

Output

Switching type		light/dark on
Signal output		2 push-pull (4 in 1)outputs, short-circuit protected, reverse pola-rity 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

Ambient conditions

Ambient temperature	-20 ... 55 °C (-4 ... 131 °F)
Storage temperature	-40 ... 75 °C (-40 ... 167 °F)

Mechanical specifications

Degree of protection	IP67
Connection	4-pin , M12 x 1 connector
Material	
Housing	ABS
Optical face	Acrylic
Mass	approx. 9 g

Compliance with standards and directives

Standard conformity	
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

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

Curves/Diagrams

Characteristic response curve

Offset Y [mm]

Distance X [mm]

- white 90 %
- gray 18 %
- black 6 %
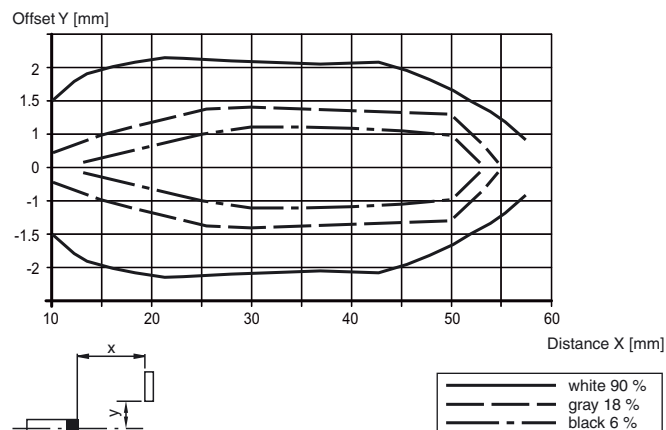
Accessories

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

Additional accessories can be found in the Internet.

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

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Detection ranges

Object color

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