

Background suppression sensor ML17-8-H-50-RT/115a/136

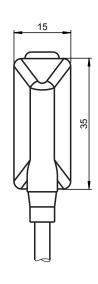


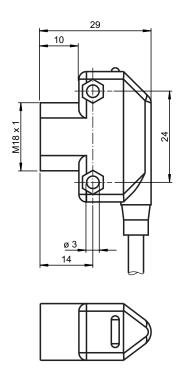
- Compact, versatile housing
- 360° high visibility LEDs
- Very low color sensitivity
- Front mounting with M18-threads or side mounting holes
- Sturdy, waterproof plastic housing
- Tamper-proof version with no adjustments

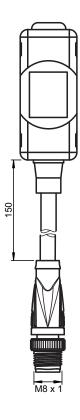
Background suppression sensor



Dimensions





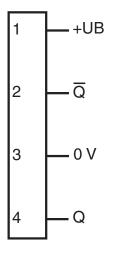


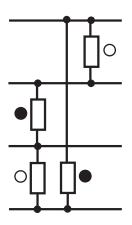
Technical Data

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		

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
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 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
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
Ambient conditions		
Ambient temperature		-20 55 °C (-4 131 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Housing width		15 mm
Housing height		34.5 mm
Degree of protection		IP67
Connection		150 mm PVC cable with 4-pin, M8 connector
Material		
Housing		ABS
Optical face		Acrylic
Mass		approx. 23 g

Connection Assignment





- O = Light on
- = Dark on

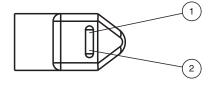
Connection Assignment



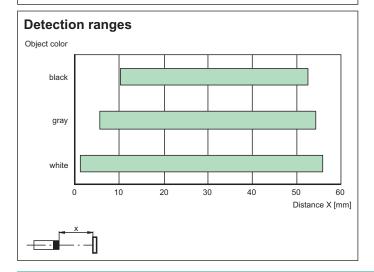
Wire colors in accordance with EN 60947-5-2

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

Assembly



1	Signal display	yellow
2	Operating display	green



Accessories

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

Distance X [mm]

white 90 % gray 18 % black 6 %

Accessories

Additional accessories can be found in the Internet.

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