



Model Number

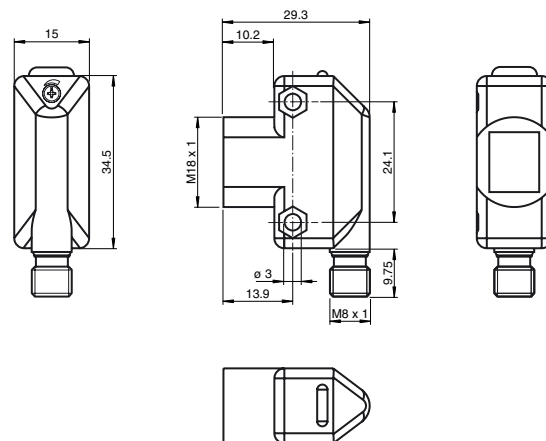
ML17-8-450/136/143

Diffuse mode sensor
with 4-pin M8 connector

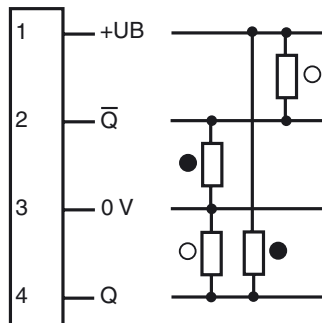
Features

- Compact, versatile housing
- 360° high visibility LEDs
- Adjustable sensing range
- Front mounting with M18-threads or side mounting holes

Dimensions



Electrical connection

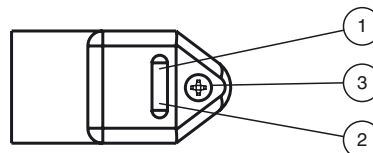


○ = Light on
● = Dark on

Pinout



Indicators/operating means



1	Signal display	yellow
2	Operating display	green
3	Sensitivity adjustment	

Technical data**General specifications**

Detection range	10 ... 450 mm
Adjustment range	60 ... 450 mm
Reference target	standard white, 100 mm x 100 mm
Light source	IREL
Light type	modulated infrared light , 950 nm
Ambient light limit	≤ 10000 Lux

Indicators/operating means

Operating display	LED green
Function display	LED yellow, lights up with receiver lit
Controls	Detection range adjuster

Electrical specifications

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

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 per output	
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	-20 ... 75 °C (-4 ... 167 °F)

Mechanical specifications

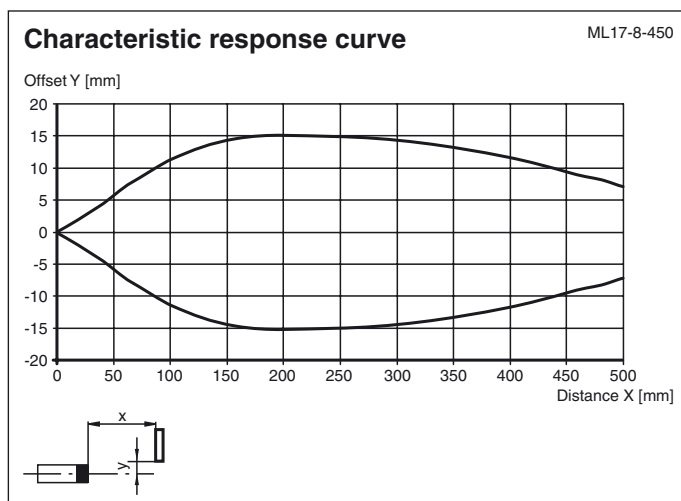
Protection degree	IP67
Connection	4-pin , M8 x 1 connector
Material	
Housing	ABS
Optical face	Acrylic
Mass	approx. 9 g

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	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Curves/Diagrams**Accessories**

OMH-ML17-EZ
Mounting bracket

OMH-ML17
Mounting bracket

OMH-ML17-1
Mounting bracket

V31-GM-2M-PUR
4-pin, M8 socket, PUR cable

V31-WM-2M-PUR
4-pin, M8 socket, PUR cable

Additional accessories can be found in the Internet.

