



Model Number

M100/MV100-IR/76a/103/115

Thru-beam sensor with 2 m fixed cable

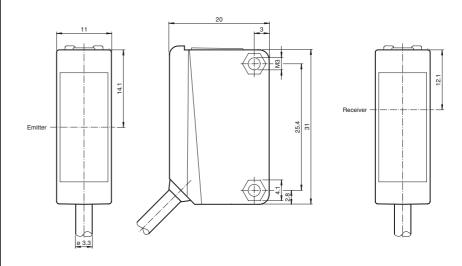
Features

- Miniature design
- Easy to use
- Full metal thread mounting
- Highly visible LEDs for Power ON and switching state
- Not sensitive to ambient light

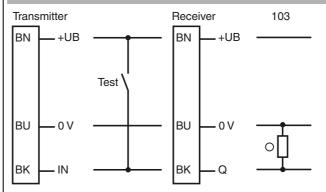
Product information

The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly visible LEDs.

Dimensions

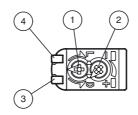


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



_			
1	Light-Dark-switching		
2	Sensitivity adjuster		
3	Signal display yellow		
4	Operating display	areen	

Technical data			
System components			
Emitter		M100-IR/76a/115	
Receiver		MV100-IR/103/115	
		WW 100-1H/103/113	
General specifications		0 15 m	
Effective detection range		20 m	
Threshold detection range		IRED	
Light source		modulated infrared light	
Light type Diameter of the light spot		approx. 1.5 m at a distance of 20 m	
Angle of divergence		approx. 2 °	
Optical face		frontal	
Ambient light limit		EN 60947-5-2	
Functional safety related paran	antoro	LIN 00347-3-2	
•	icici S	860 a	
MTTF _d		20 a	
Mission Time (T _M) Diagnostic Coverage (DC)		0%	
		0 /0	
Indicators/operating means		LED avecan power on	
Operation indicator Function indicator		LED green: power on Receiver: LED yellow, lights up when light beam is free, flashes	
		when falling short of the stability control; OFF when light beam is interrupted	
Control elements		sensitivity adjustment	
Control elements		Light-on/dark-on changeover switch	
Electrical specifications			
Operating voltage	U_B	10 30 V DC	
Ripple		max. 10 %	
No-load supply current	I ₀	Emitter: ≤ 15 mA Receiver: ≤ 8 mA	
Input			
Test input		emitter deactivation at +U _B	
Output		The quitables time of the concer is adjustable. The default act	
Switching type Signal output		The switching type of the sensor is adjustable. The default setting is: light on 1 PNP output, short-circuit protected, reverse polarity protected.	
		open collector	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA, resistive load	
Voltage drop	U_d	≤ 1.5 V DC	
Switching frequency	f	250 Hz	
Response time		2 ms	
Ambient conditions			
Ambient temperature		-30 60 °C (-22 140 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
Mechanical specifications			
Degree of protection		IP67	
Connection		2 m fixed cable	
Material			
Housing		PC (Polycarbonate)	
Optical face		PMMA	
Mass		approx. 220 g (emitter and receiver)	
Tightening torque, fastening screws		0.6 Nm	
Cable length		2 m	
Compliance with standards and ves	d directi	-	
Directive conformity		EN 000 47 5 0 0007 A4 0040	
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012	
Standard conformity			
Standards		UL 60947-5-2	
Approvals and certificates			
UL approval		cULus Listed, Class 2 Power Source or listed Power Supply with a limited voltage output with (maybe integrated) fuse (max. 3.3 A according UL248), Type 1 enclosure	
CCC approval		CCC approval / marking not required for products rated ≤36 V	
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Accessories

OMH-ML100-01

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-02

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-03

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-05

Mounting aid for ML100 series, Mounting bracket

OMH-F10-ML100

Mounting aid for ML100 series

OMH-10

Mounting aid

OMH-ML100-08

Mounting aid for ML100 series, Snap-in

Additional accessories can be found in the Internet.

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