

Technical Data

*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

General Data	
Test input	✔
Sensitivity adjustment	✔
Light/dark switch	✔
Threshold detection range	20 m
Effective detection range	0 ... 15 m
Light type	modulated infrared light
Operating voltage	10 ... 30 V DC , class 2
No-load supply current	Emitter: ≤ 15 mA Receiver: ≤ 8 mA
Switching type	light/dark on, switchable
Switching current	max. 100 mA , resistive load
Switching frequency	250 Hz
Test input	emitter deactivation
Ambient temperature	-30 ... 60 °C (-22 ... 140 °F)
Material	
Housing	PC (Polycarbonate)
Optical face	PMMA
Protection degree	IP67

Model Number		M100/MV100-IR/76b/102/115	M100/MV100-IR/76a/103/115	M100/MV100-IR/76a/95/103
Signal output	1 NPN output, short-circuit protected, reverse polarity protected, open collector	●		
	1 PNP output, short-circuit protected, reverse polarity protected, open collector		●	●
Connection	2 m fixed cable	●	●	
	M8 x 1 connector, 4-pin			●
				
Approvals and Certificates				
UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure	●	●	●
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.			

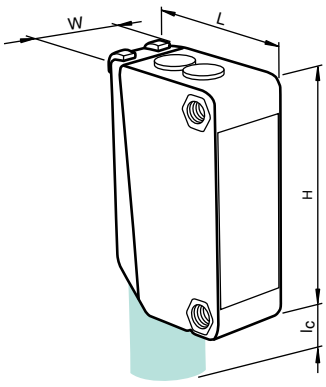
Dimensions		
Length L [mm]	20	
Width W [mm]	11	
Height H [mm]	31	
Connector area l_c [mm]	0	10

Properties

- Emitter / receiver set
- Rectangular miniature housing
- Plastic housing
- Discrete output
- Cable and connector versions
- Infrared light

Your Benefit

- Rugged housing has metal-reinforced mounting holes



Accessories

This and more accessories can be found in chapter 10

See pages from 974 ... for cordsets See pages 1074 ... for mounting aids

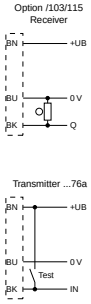
OMH-ML100-01	Mounting bracket
OMH-ML100-03	Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm
OMH-ML100-02	Mounting bracket
OMH-ML100-04	Mounting bracket
OMH-ML100-05	Mounting bracket
OMH-F10-ML100	Mounting aid for ML100 series
OMH-10	Mounting aid
V3-GM-2M-PUR	Cable socket, M8, 3-pin, PUR cable

Electrical Connection

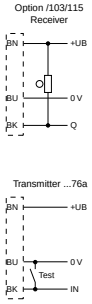
❍ = light on, ● = dark on



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

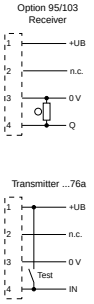


M100/MV100-IR/76b/102/115





M100/MV100-IR/76a/95/103





Wire colors in accordance with EN 60947-5-2

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

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