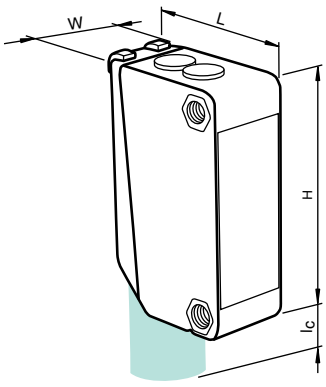


Properties

- Non-polarized type
- Rectangular miniature housing
- Plastic housing
- DC sensor
- Discrete output
- Cable and connector versions
- Infrared light

Your Benefit

- Rugged housing has metal-reinforced mounting holes



Technical Data

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

General Data	
Sensitivity adjustment	✔
Light/dark switch	✔
Threshold detection range	7 m
Effective detection range	0 ... 5 m
Reference target	H50 reflector
Light type	modulated infrared light
Optical face	frontal
Operating voltage	10 ... 30 V DC , class 2
No-load supply current	< 20 mA
Switching type	light/dark on, switchable
Switching current	max. 100 mA , resistive load
Switching frequency	1000 Hz
Ambient temperature	-30 ... 60 °C (-22 ... 140 °F)
Material	
Housing	PC (Polycarbonate)
Optical face	PMMA
Protection degree	IP67

Model Number		ML100-6-IR/102/115	ML100-6-IR/103/115	ML100-6-IR/95/102	ML100-6-IR/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	fixed cable	●	●		
	connector M8 x 1 , 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

Accessories

This and more accessories can be found in chapter 10

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

OMH-ML100-03	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
REF-H33	Reflector with screw fixing
V31-WM-2M-PUR	4-pin, M8 socket, PUR cable
V31-GM-2M-PUR	4-pin, M8 socket, PUR cable
OMH-ML100-01	Mounting bracket

Electrical Connection

❍ = light on, ● = dark on



ML100-6-IR/102/115

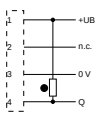


ML100-6-IR/103/115

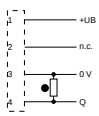




ML100-6-IR/95/102



ML100-6-IR/95/103





Wire colors in accordance with EN 60947-5-2

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

Date of issue 08/13/2012

Consider the General Notes on the Information in the Pepperl+Fuchs Product Catalogs
Copyright Pepperl+Fuchs
Pepperl+Fuchs Group www.pepperl-fuchs.com
USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com
Germany: +49 621 776-4411 fa-info@de.pepperl-fuchs.com
Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com
PEPPERL+FUCHS SENSING YOUR NEEDS