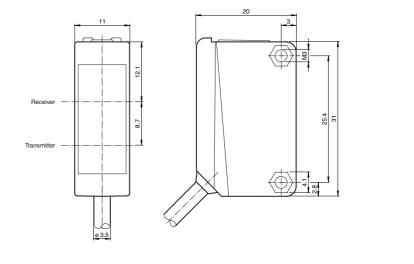
Dimensions

ML100-55-G/102/115







Model Number

ML100-55-G/102/115

Retroreflective sensor for glass detection with 2 m fixed cable

Features

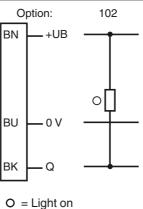
CE

- ٠ Miniature design
- Detects transparent materials
- TEACH-IN switch for setting the contrast detection levels
- ٠ Automatic adjustment in case of soiling in contrast detection mode
- Very bright, highly visible light spot
- Full metal thread mounting •

Product information

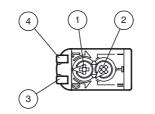
The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly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

Electrical connection



= Dark on

Indicators/operating means



1	Light/dark changeover switch	
2	Teach-in and mode selection potentiometer	
	T Teach-in mode	
	I 18% contrast mode	
	II 40% contrast mode	
3	Signal indicator	yellow
4	Operating indicator	green

Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



0 ... 2.5 m

0.05 ... 2.5 m

Technical data

General specifications Effective detection range Reflector distance Threshold detection range Reference target Light source Light type Polarization filter Diameter of the light spot Angle of divergence Optical face Ambient light limit Functional safety related parameters

MTTF_d Mission Time (T_M)

Diagnostic Coverage (DC) Indicators/operating means Operation indicator

Function indicator

Control elements Control elements Contrast detection levels

Electrical specifications

Electrical specifications
Operating voltage
Ripple
No-load supply current
Output
Switching type
Signal output
Switching voltage
Switching current
Voltage drop
Switching frequency
Response time
Ambient conditions
Ambient temperature
Storage temperature
Mechanical specifications
Housing width
Housing height
Housing depth
Degree of protection
Connection
Material
Housing
Optical face
Mass
Tightening torque, fastening scre
Compliance with standards and directives
Directive conformity

EMC Directive 2004/108/EC

Approvals and certificates

Standard conformity Standards

UL approval

CCC approval

2.5 m H50 reflector I FD modulated visible red light yes approx. 180 mm at a distance of 2.5 m approx. 4 ° frontal EN 60947-5-2:2007+A1:2012 860 a

20 a 0%

LED green: power on Teach-In : LED yellow/green; equiphase flashing; 2,5 Hz Teach Error:LED green/yellow non equiphase flashing; 8.0 Hz LED yellow: lights up when receiving the light beam OFF when light beam is interrupted Teach-In rotary switch Light-on/dark-on changeover switch preset to light on 18 % - clear glass bottles 40 % - colored glass or opaque materials adjustable due to Teach-In switch

	UB	10 30 V DC
		max. 10 %
	I ₀	< 20 mA
		The switching type of the sensor is adjustable. The default setting is: light on
		1 NPN output, short-circuit protected, reverse polarity protected, open collector
		max. 30 V DC
		max. 100 mA , resistive load
	U _d	\leq 1.5 V DC
	f	1000 Hz
		0.5 ms
		-30 60 °C (-22 140 °F)
		-40 70 °C (-40 158 °F)
		11 mm
		31 mm
		20 mm
		IP67
		2 m fixed cable
		PC (Polycarbonate)
		PMMA
		approx. 50 g
ew	S	0.6 Nm
nd		
		EN 60947-5-2:2007+A1:2012
		UL 60947-5-2

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 / marking not required for products rated ≤36 V Accessories

OMH-ML100-01 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

REF-H85-2

Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes

REF-C110-2 Reflector, round ø 84 mm, central mounting hole

REF-H33 Reflector with screw fixing

OFR-70-2 Reflective tape 70 mm x 70 mm

Other suitable accessories can be found at www.pepperl-fuchs.com

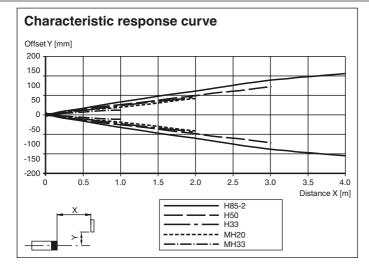
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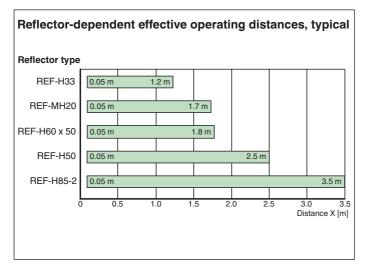
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2

Curves/Diagrams





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