



Model Number

ML100-8-H-350-RT/103/115a

Background suppression sensor with fixed cable and 4-pin, M8 connector

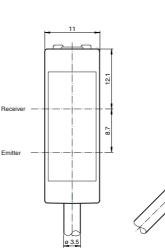
Features

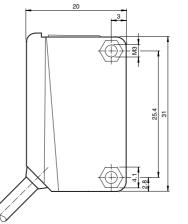
- Miniature design •
- Easy to use •
- Very bright, highly visible light spot •
- Full metal thread mounting •
- Highly visible LEDs for Power ON and switching state
- Not sensitive to ambient light ٠

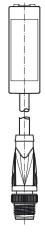
Product information

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.

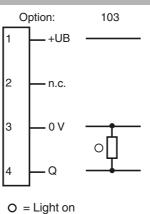
Dimensions







Electrical connection

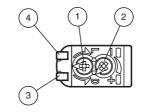


= Dark on

Pinout



Indicators/operating means



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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" 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



ML100-8-H-350-RT/103/115a

Technical data		
General specifications		
Detection range		5 350 mm
Detection range min.		5 30 mm
Detection range max.		5 350 mm
Adjustment range		30 350 mm
Reference target		standard white, 100 mm x
Light source		LED
Light type		modulated visible red light
Black/White difference (6 %/90 %)		< 18 % at 350 mm
Diameter of the light spot		approx. 20 mm at a distant
Angle of divergence		approx. 4 °
Optical face		frontal
Ambient light limit		EN 60947-5-2
Functional safety related parameter	ters	
MTTF _d		860 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Indicators/operating means		
Operation indicator		LED green: power on
Function indicator		LED yellow: lights when ob
Control elements		Detection range adjuster
Control elements		Light/Dark switch
		Light/Dark Switch
Electrical specifications		10 00 V DO slava 0
Operating voltage	UB	10 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I ₀	< 20 mA
Output		
Switching type		light/dark on, switchable
Signal output		1 PNP output, short-circuit
Quitabin multana		open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA, resistive loa
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		1 ms
Ambient conditions		
Ambient temperature		-30 60 °C (-22 140 °F
Storage temperature		-40 70 °C (-40 158 °F
Mechanical specifications		
Protection degree		IP67
Connection		300 mm fixed cable with M
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		approx. 20 g
Cable length		0.3 m
Compliance with standards and o	directi-	
ves		
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2
Standard conformity		
Standards		UL 508
Approvals and certificates		
UL approval		cULus Listed, Class 2 Pov
CCC approval		CCC approval / marking r
Approvals		CE, cULus Listed 57M3 (
P. P		power supply; Type 1 enc

100 mm ce of 350 mm bject is detected it protected, reverse polarity protected, ad 18 connector, 4-pin ower Source, Type 1 enclosure not required for products rated ≤36 V (Only in association with UL Class 2 closure)

Accessories

OMH-ML100-01 Mounting bracket

OMH-ML100-02 Mounting bracket

OMH-ML100-03 Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04 Mounting bracket

OMH-ML100-05 Mounting bracket

OMH-F10-ML100 Mounting aid for ML100 series

OMH-10 Mounting aid

OMH-ML100-S1 Mounting bracket

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

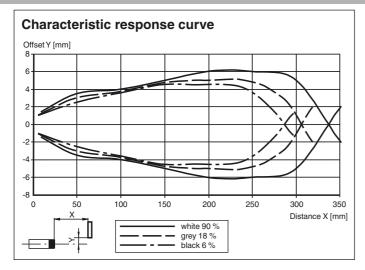
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

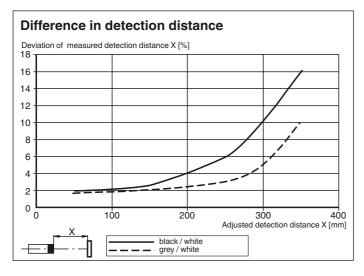
Pepperl+Fuchs Group www.pepperl-fuchs.com



2

Curves/Diagrams





Release date: 2013-11-20 13:09 Date of issue: 2013-11-20 227053_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001

www.pepperl-fuchs.com

