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### **Model Number**

### ML100-8-H-350-RT/98/103

Background suppression sensor with 3-pin, M8 x 1 connector

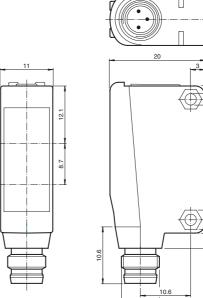
#### **Features**

- 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

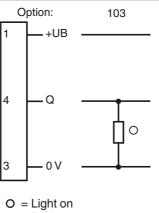
#### **Product information**

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**

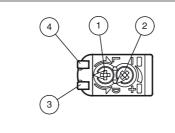




**Pinout** 



#### Indicators/operating means



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



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ML100-8-H-350-RT/98/103

Technical data			Accessories
General specifications			OMH-ML100-0
Detection range		5 350 mm	Mounting aid for
Detection range min.		5 30 mm	sheet 1.5 mm.
Detection range max.		5 350 mm 30 350 mm	01111 111 100 (
Adjustment range		standard white, 100 mm x 100 mm	OMH-ML100-0 Mounting aid fo bracket
Reference target Light source		LED	
Light type		modulated visible red light	
Polarization filter		no	OMH-ML100-0
Black/White difference (6 %/9	0 %)	< 18 % at 350 mm	Mounting aid fo
Diameter of the light spot		approx. 20 mm at a distance of 350 mm	bracket
Angle of divergence		approx. 4 °	Dracket
Optical face		frontal	OMH-F10-ML1
Ambient light limit		EN 60947-5-2:2007+A1:2012	Mounting aid fo
Functional safety related par	ameters		,
MTTF <sub>d</sub>		860 a	OMH-10
Mission Time (T <sub>M</sub> )		20 a	Mounting aid
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			V3-WM-2M-PL
Operation indicator		LED green: power on	Cable socket, I
Function indicator		LED yellow: lights when object is detected	OMH-ML100-S
Control elements		Sensing range adjuster	Mounting brack
Control elements		Light-on/dark-on changeover switch	Mounting braci
Electrical specifications			OMH-ML100-0
Operating voltage	UB	10 30 V DC	Mounting aid fo
Ripple	5	max. 10 %	-
No-load supply current	I <sub>0</sub>	< 20 mA	Other suitable a
Output			www.pepperl-fuc
Switching type		The switching type of the sensor is adjustable. The default set- ting is: light on	
Signal output		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 <sub>d</sub>	$\leq$ 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			
Degree of protection		IP67	
Connection		connector M8 x 1 , 3-pin	
Material			
Housing		PC (Polycarbonate)	
Optical face		PMMA	
Mass		approx. 10 g	
Tightening torque, fastening s	crews	0.6 Nm	
Compliance with standards a ves	and direct	li-	
Directive conformity			
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	
ooo appiovai		$000$ approval/marking not required for products rated $\leq 36$ V	

·03 for round steel ø 12 mm or ... 3 mm

-04 for ML100 series, Mounting

-05 for ML100 series, Mounting

.100 for ML100 series

UR M8, 3-pin, PUR cable

S1 cket

-08 for ML100 series, Snap-in

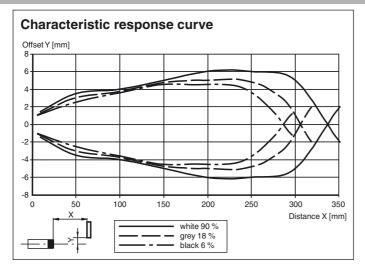
accessories can be found at ichs.com

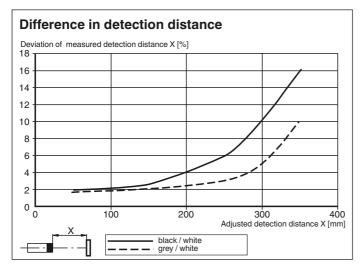
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# **Curves/Diagrams**





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