

CE

Model Number

ML100-8-1000-RT/33/102/115-5M

Diffuse mode sensor

with 5 m fixed cable

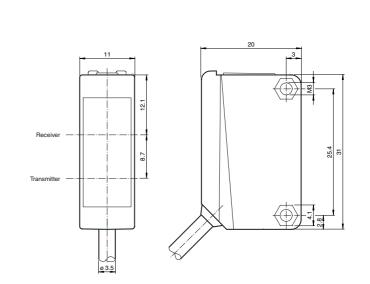
Features

- Miniature design ٠
- Easy to use ٠
- 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

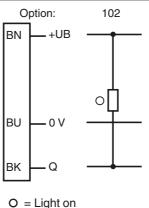
Product information

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.

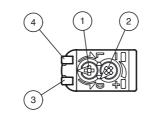
Dimensions



Electrical connection



Indicators/operating means



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

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-	Technical data					
C	eneral specifications					
	Detection range	0 1000 mm				
	Adjustment range	100 1000 mm				
	Reference target	standard white, 100 mm x 100 mm				
	Light source	LED				
	Light type	modulated visible red light				
	Diameter of the light spot	approx. 75 mm at a distance of 1000 mm				
	Angle of divergence	approx. 2 °				
	Optical face	frontal				
	Ambient light limit	EN 60947-5-2				
F	Functional safety related parameters					
	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 up with receiver lit			
	Control elements		sensitivity adjustment			
	Control elements		Light/Dark switch			
E	Electrical specifications					
	Operating voltage	UB	10 30 V DC , class 2			
	Ripple		max. 10 %			
	No-load supply current	I ₀	< 20 mA			
(Dutput					
	Switching type		light/dark on, switchable			
	Signal output		1 NPN output, short-circuit protected, reve open collector			
	Switching voltage		max. 30 V DC			
	0 11 1 1		100 1 11 1			

Switching current Voltage drop Ud Switching frequency Response time Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree Connection Material Housing Optical face Mass Cable length Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC Standard conformity Standards

Approvals and certificates

UL approval CCC approval Approvals

on, switchable tput, short-circuit protected, reverse polarity protected, ector DC max. 100 mA , resistive load ≤ 1.5 V DC 1000 Hz 0.5 ms -30 ... 60 °C (-22 ... 140 °F) -40 ... 70 °C (-40 ... 158 °F) IP67 5 m fixed cable PC (Polycarbonate) PMMA approx. 100 g 5 m EN 60947-5-2 UL 508 cULus Listed, Class 2 Power Source, Type 1 enclosure CCC approval / marking not required for products rated ≤36 V

CE, cULus Listed 57M3 (Only in association with UL Class 2

power supply; Type 1 enclosure)

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

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

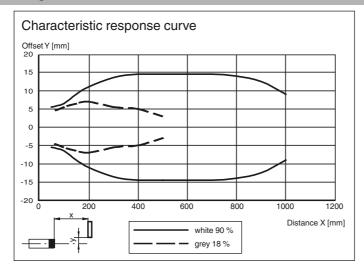
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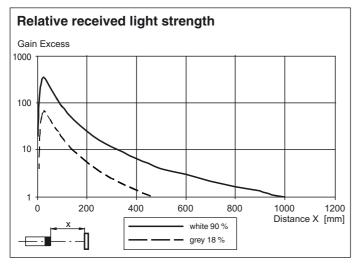
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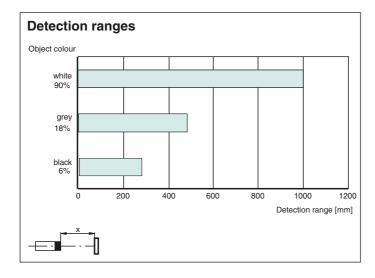
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Curves/Diagrams







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