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Model Number

ML300-8-1200-IR/25/82d/95/103

Diffuse mode sensor with M8, 4-pin metal connector

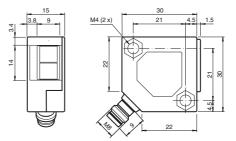
Features

- Miniature design
- Easy to use
- Infrared light
- High operating range
- 45° connector

Product information

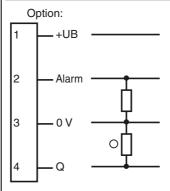
The ML300 series has a robust miniature housing and all the standard functional principles. Of particular note are the sensors with analog output, which return a value proportional to the distance. The 45° plug/cable connection ensures flexible mounting. An LED indicates a weak signal, e.g. due to dirt.

Dimensions





Electrical connection



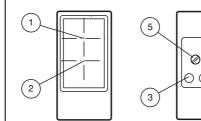
- O = Light on
- = Dark on

Pinout



4)

Indicators/operating means



	1	Receiver			
	2	Emitter			
	3	Switching state	yellow		
	4	Stability control	green		
	5	Sensing range adjuster			

Technical data		
General specifications		
Detection range		0 1200 mm , adjustable
Adjustment range		250 1200 mm
Reference target		standard white 200 mm x 200 mm
Light source		IRED
Light type		modulated infrared light , 880 nm
Diameter of the light spot		approx. 160 mm at a distance of 1200 mm
Angle of divergence		approx. 8°
Ambient light limit		арргох. о
Continuous light		10000 Lux
Modulated light		5000 Lux
<u> </u>		Mounting bracket OMH-ML300-01
Accessories provided		Screwdriver
Indicators/operating means		
Function indicator		LED yellow: lights up when output is active LEDgreen: Sufficient stability control
Control elements		Detection range adjuster
Electrical specifications		
Operating voltage	U _B	10 30 V DC
Ripple		max. 20 %
No-load supply current	I _O	max. 20 mA
Output	U	
Pre-fault indication output		1 PNP, inactive when falling short of the stability control, ope
The fault indication output		collector , short-circuit protected, reverse polarity protected , 100 mA max
Switching type		light on / dark on
Signal output		1 PNP output, short-circuit protected, reverse polarity protected open collector
Switching voltage		max. 30 V DC
Switching current		max. 0.1 A
Voltage drop	U_d	≤2 V DC
Switching frequency	f	1000 Hz
Response time		0.5 ms
Ambient conditions		
Ambient temperature		-25 55 °C (-13 131 °F)
Mechanical specifications		,
Protection degree		IP67
Connection		M8 x 1 connector, 4-pin
Material		ivio x i connector, 4 pm
Housing		PBT
Optical face		
Connector		glass pane metal
Mass		
	d!	18 g
Compliance with standards and c	airecti-	
Directive conformity		
EMC Directive 2004/108/EC Standard conformity		EN 60947-5-2:2007
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Shock and impact resistance		EN 60947-5-7 30 g, 11 ms, all axes
Vibration resistance		EN 60947-5-7, 10-55 Hz/1.5 mm amplitude, all axes
Approvals and certificates		
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Accessories

OMH-ML300-01

Bracket for mounting ML300 series sensors

OMH-ML300-02

Bracket for mounting ML300 series sensors on a 35 mm DIN rail

V31-GM-2M-PVC

Female cordset, M8, 4-pin, PVC cable

V31-WM-2M-PVC

Female cordset, M8, 4-pin, PVC cable

V31-WM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

V31-GM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

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

EPPERL+FUCHS

CCC approval

CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

