



**Model Number**

**ML300-8-100-RT/79a/95/122**

Diffuse mode sensor  
with 4-pin, M8 x 1 connector

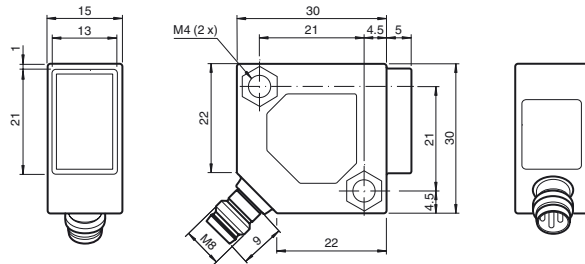
**Features**

- Distance measurement using object
- Miniature design
- Easy to use
- Visible red light
- Analog output 0 V ... 10 V/4 mA ... 20 mA
- 45° connector

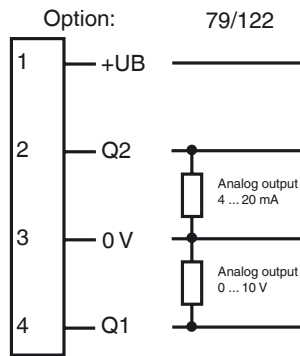
**Product information**

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.

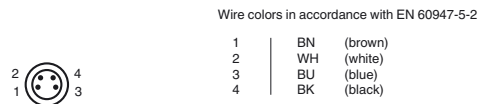
**Dimensions**



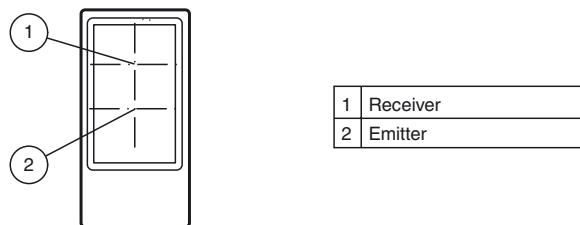
**Electrical connection**



**Pinout**



**Indicators/operating means**



Release date: 2019-11-26 15:43 Date of issue: 2019-11-26 238213\_eng.xml

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

**Technical data****General specifications**

Detection range	10 ... 100 mm
Reference target	standard white, 100 mm x 100 mm
Light source	LED
Light type	modulated visible red light , 660 nm
Diameter of the light spot	approx. 6 mm at a distance of 100 mm
Angle of divergence	approx. 3.5 °
Ambient light limit	
Continuous light	10000 Lux
Modulated light	5000 Lux
Accessories provided	Mounting bracket OMH-ML300-01

**Electrical specifications**

Operating voltage	$U_B$	15 ... 30 V DC
Ripple		max. 20 %
No-load supply current	$I_0$	max. 25 mA

**Output**

Measurement output	Analog output: 0 ... 10 V , 10 mA Analog output: 4 ... 20 mA , max. load: 0.5 kOhm (+UB=15 V), 1.2 kOhm (+UB=30 V)
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**Conformity**

Product standard	EN 60947-5-2
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**Ambient conditions**

Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
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**Mechanical specifications**

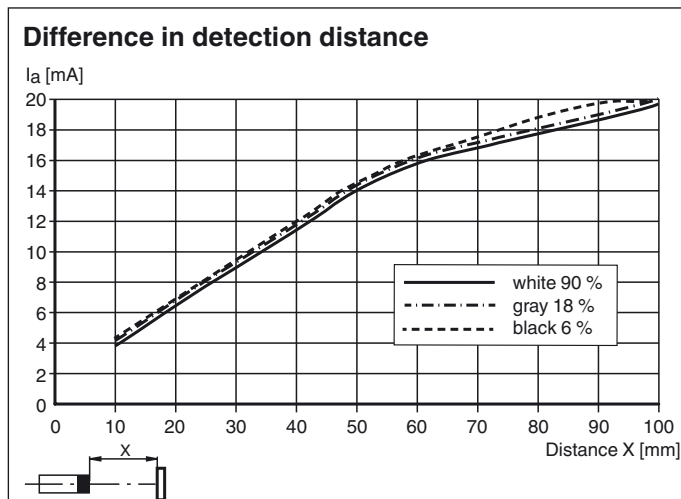
Housing width	30 mm
Housing height	30 mm
Housing depth	15 mm
Degree of protection	IP67
Connection	M8 x 1 connector, 4-pin
Material	
Housing	PBT
Optical face	glass pane
Connector	metal
Mass	18 g
Mounting	Mounting accessories included

**Compliance with standards and directives**

Standard conformity	
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**

CCC approval	CCC approval / marking not required for products rated ≤36 V
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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 single-ended, M8, 4-pin, PVC cable

**V31-WM-2M-PVC**

Female cordset single-ended, M8, 4-pin, PVC cable

**V31-WM-2M-PUR**

Female cordset single-ended, M8, 4-pin, PUR cable

**V31-GM-2M-PUR**

Female cordset single-ended, M8, 4-pin, PUR cable

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

