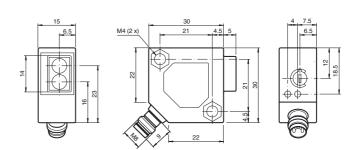
Dimensions





# CE

### **Model Number**

# ML300-55-2m-RT/59/98/102

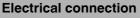
Retroreflective sensor with 3-pin, M8 x 1 connector

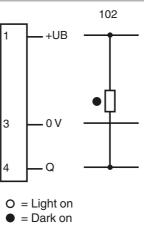
#### **Features**

- Miniature design ٠
- Easy to use •
- Visible red light •
- 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.



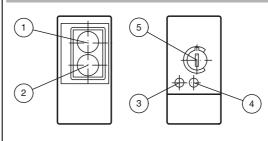


**Pinout** 



#### (brown) (blue) (black) BN BU BK

# Indicators/operating means



1	Receiver	
2	Emitter	
3	Switching state	yellow
4	Stability control	green
5	Sensitivity adjustment	

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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**Technical data General specifications** Effective detection range

Reflector distance Threshold detection range

Reference target

Angle of divergence Ambient light limit Continuous light Modulated light

Indicators/operating means Function indicator Control elements

**Electrical specifications** Operating voltage

No-load supply current

Switching type Signal output

Switching voltage Switching current Voltage drop

Switching frequency

Response time

Ambient conditions Ambient temperature Mechanical specifications

Housing width Housing height Housing depth Degree of protection

Connection

Compliance with standards and

Shock and impact resistance Vibration resistance Approvals and certificates

Standard conformity

CCC approval

Material Housing Optical face Connector Mass

directives

Conformity Product standard

Ripple

Output

Light source

Light type Polarization filter Diameter of the light spot

		Accessories	
	0 2 m	OMH-ML300-01	
	0.02 2 m	Bracket for mounting ML300 series sensors	
	3.5 m		
	0.0 11	OMH-ML300-02	
	H85-2 reflector	Bracket for mounting ML300 series sensors on a 35 mm DIN rail	
	LED		
	modulated visible red light, 660 nm		
	yes	<b>V3-GM-2M-PVC</b> Female cordset single-ended, M8, 3-pin, PVC cable	
	approx. 200 mm at 2 m		
	approx. 6 °		
	10000 Lux	V3-WM-2M-PVC	
	5000 Lux	Female cordset single-ended, M8, 3-pin,	
		PVC cable	
	LED yellow: lights up when output is active		
	LED green: Sufficient stability control	V3-WM-2M-PUR	
	sensitivity adjustment	Female cordset single-ended, M8, 3-pin,	
		PUR cable	
JB	10 30 V DC		
	max. 10 %	REF-H85-2	
0	max. 20 mA	Reflector, rectangular 84.5 mm x	
		84.5 mm, mounting holes	
	dark on	REF-C110-2	
	1 NPN output, short-circuit protected, reverse polarity protected, open collector		
	max. 30 V DC	Reflector, round ø 84 mm, central	
	max. 0.1 A	mounting hole	
J <sub>d</sub>	≤2 V DC	REF-H50	
ď	1000 Hz	Reflector, rectangular 51 mm x 61 mm,	
	0.5 ms	mounting holes, fixing strap	
		mounting holde, lixing of up	
	EN 60947-5-2	REF-H60-2	
		Reflector with mounting holes	
	-25 55 °C (-13 131 °F)	<b>REF-VR10-2</b> Reflector, rectangular 60 mm x 19 mm,	
	30 mm		
	30 mm	mounting holes	
	15 mm	OFB-100/100	
	IP65	Reflective tape 100 mm x 100 mm	
	M8 x 1 connector, 3-pin	Reflective tape 100 min x 100 min	
		Other suitable accessories can be found at	
	ABS	www.pepperl-fuchs.com	
	plastic		
	metal		
	18 g		
	EN 60947-5-7 30 g, 11 ms, all axes		
	EN 60947-5-7 30 g, 11 ms, all axes EN 60947-5-7, 10-55 Hz/1.5 mm amplitude, all axes		
	CCC approval / marking not required for products rated ≤36 V		

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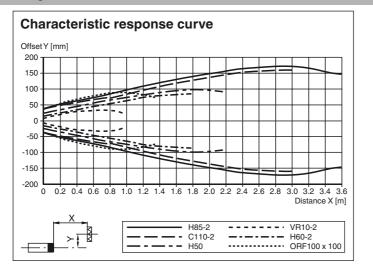
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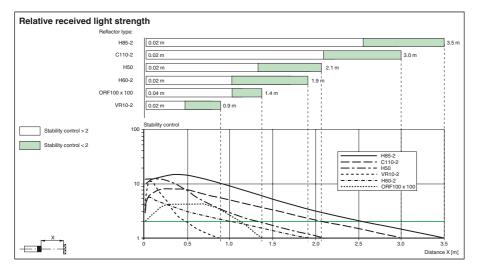
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## **Curves/Diagrams**





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