## Diffuse mode sensor



# CE

#### **Model Number**

## ML300-8-600-RT/25/98/103

Diffuse mode sensor with 3-pin, M8 x 1 connector

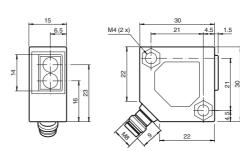
#### **Features**

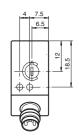
- Miniature design ٠
- Easy to use ٠
- Visible red light •
- 45° connector •

## **Product information**

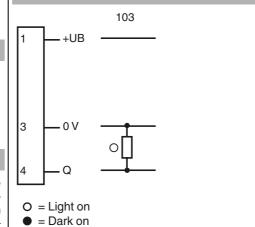
The ML300 series has a robust miniature housing and all the standard functional principles. Of particular note are the sensors with analog output, which return a value proportional to the distance. The 45° plug/cable connection ensures flexible mounting. An LED indicates a weak signal, e.g. due to dirt.







#### **Electrical connection**

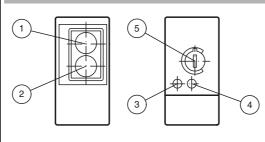


**Pinout** 



#### Wire colors in accordance with EN 60947-5-2 (brown) (blue) (black) BN BU BK

### Indicators/operating means



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

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

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

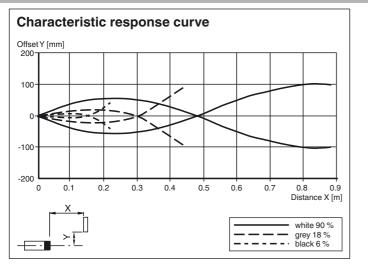
Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com **EPPPERL+FUCHS** 1

Technical data			Accessories	
General specifications			OMH-ML300-01	
Detection range		0 600 mm , adjustable		
Adjustment range		150 600 mm	Bracket for mounting ML300 series	
Reference target		standard white 200 mm x 200 mm	sensors	
Light source		LED	OMH-ML300-02 Bracket for mounting ML300 series sensors on a 35 mm DIN rail	
Light type		modulated visible red light , 660 nm		
Diameter of the light spot		approx. 130 mm at a distance of 600 mm		
Angle of divergence		approx. 13 °		
Ambient light limit			V3-GM-2M-PVC	
Continuous light		10000 Lux	Female cordset single-ended, M8, 3-pin	
Modulated light		5000 Lux	PVC cable	
Indicators/operating means				
Function indicator		LED yellow: lights up when output is active LED green: Sufficient stability control	V3-WM-2M-PVC Female cordset single-ended, M8, 3-pin	
Control elements		Sensing range adjuster	PVC cable	
Electrical specifications				
Operating voltage	UB	10 30 V DC	V3-WM-2M-PUR	
Ripple		max. 10 %	Female cordset single-ended, M8, 3-pin	
No-load supply current	Ι <sub>Ο</sub>	max. 35 mA	PUR cable	
Output			Other a light second in the first sec	
Switching type		light on	Other suitable accessories can be found a www.pepperl-fuchs.com	
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 <sub>d</sub>	≤ 2 V DC		
Switching frequency	f	1000 Hz		
Response time		0.5 ms		
Conformity				
Product standard		EN 60947-5-2		
Ambient conditions				
Ambient temperature		-25 55 °C (-13 131 °F)		
Mechanical specifications				
Housing width		30 mm		
Housing height		30 mm		
Housing depth		15 mm		
Degree of protection		IP65		
Connection		M8 x 1 connector, 3-pin		
Material				
Housing		ABS		
Optical face		plastic		
Connector		metal		
Mass		18 g		
Compliance with standards directives	and			
Standard conformity				
Shock and impact resistance	ce	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		
			1	

## Approvals and certificates CCC approval

### **Curves/Diagrams**



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

www.pepperl-fuchs.com

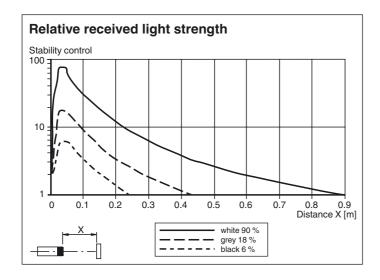
USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

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

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com Date of issue: 2019-11-26 238180\_eng.xml

Release date: 2019-11-26 15:43



Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com