Diffuse mode sensor



CE

Model Number

ML300-8-600-RT/59/98/102

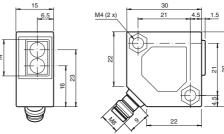
Diffuse mode sensor with 3-pin, M8 x 1 connector

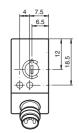
Features

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

Product information

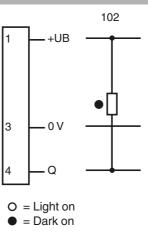
The ML300 series has a robust miniature housing and all the standard functional principles. Of particular note are the sensors with analog output, which return a value proportional to the distance. The 45° plug/cable connection ensures flexible mounting. An LED indicates a weak signal, e.g. due to dirt.





Electrical connection

Dimensions

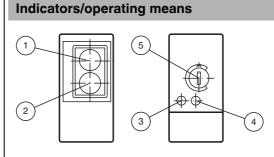


Pinout



BN BU BK

(brown) (blue) (black)



1	Receiver		
2	Emitter		
3	Switching state	yellow	
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

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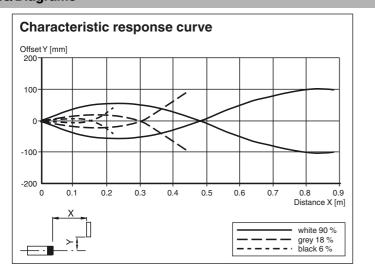
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Technical data			Accessories	
General specifications			OMH-ML300-01	
Detection range		0 600 mm , adjustable	Bracket for mounting ML300 series sensors	
Adjustment range		150 600 mm		
Reference target		standard white 200 mm x 200 mm		
Light source		LED	OMH-ML300-02	
Light type		modulated visible red light , 660 nm	Bracket for mounting ML300 series	
Diameter of the light spot		approx. 130 mm at a distance of 600 mm	sensors on a 35 mm DIN rail	
Angle of divergence		approx. 13 °		
Ambient light limit			V3-GM-2M-PVC	
Continuous light		10000 Lux	Female cordset single-ended, M8, 3-pin, PVC cable	
Modulated light		5000 Lux		
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	I ₀	max. 30 mA	PUR cable	
Output				
Switching type		dark on	Other suitable accessories can be found at www.pepperl-fuchs.com	
Signal output		1 NPN 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		
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 resistan	се	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		

Curves/Diagrams

CCC approval

Approvals and certificates



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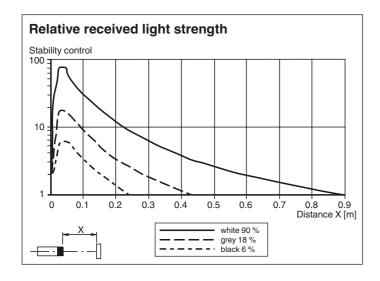
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CCC approval / marking not required for products rated ≤36 V

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