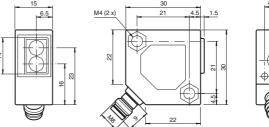
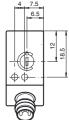
Thru-beam sensor



Dimensions





CE

Model Number

ML300-P-6m-RT/25/98/102

Thru-beam sensor with 3-pin, M8 x 1 connector

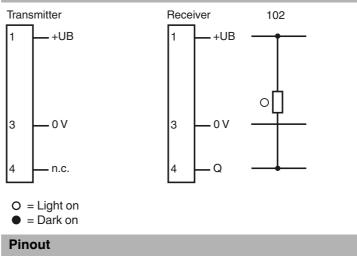
Features

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

Product information

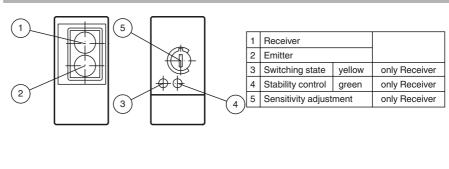
The ML300 series has a robust miniature housing and all the standard functional principles. Of particular note are the sensors with analog output, which return a value proportional to the distance. The 45° plug/cable connection ensures flexible mounting. An LED indicates a weak signal, e.g. due to dirt.







Indicators/operating means



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Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

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



System components		
System components Emitter		ML300-T-6m-RT/98
Beceiver		ML300-R-6m-RT/25/98/102
General specifications		WE000-11-011-111/20/00/102
Effective detection range		06m
Threshold detection range		8 m
Light source		LED
Light type		modulated visible red light 660 nm
Diameter of the light spot		approx. 500 mm at 6 m
Angle of divergence		approx. 5 °
Ambient light limit		
Continuous light		10000 Lux
Modulated light		5000 Lux
Indicators/operating means		
Function indicator		LED yellow: lights up when output is active LEDgreen: Sufficient stability control
Control elements		sensitivity adjustment
Electrical specifications		
Operating voltage	U _B	10 30 V DC
Ripple	D	max. 10 %
No-load supply current	I ₀	Emitter: ≤ 20 mA
	Ū	Receiver: ≤ 20 mA
Output		
Switching type		light on
Signal output		1 NPN output, short-circuit protected, reverse polarity protecte 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		
Degree of protection		IP65
Connection		M8 x 1 connector, 3-pin
Material		
Housing		ABS
Optical face		plastic
Connector		metal
Mass		35 g (emitter and receiver)
Compliance with standards and ves	directi	
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007
Standard conformity 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		
CCC approval		CCC approval / marking not required for products rated ${\leq}36$

	Accessories
	OMH-ML300-01 Bracket for mounting ML300 series sen- sors
	OMH-ML300-02 Bracket for mounting ML300 series sen- sors on a 35 mm DIN rail
	V3-GM-2M-PVC Female cordset, M8, 3-pin, PVC cable
	V3-WM-2M-PVC Female cordset, M8, 3-pin, PVC cable
	V3-GM-2M-PUR Cable socket, M8, 3-pin, PUR cable
	V3-WM-2M-PUR Cable socket, M8, 3-pin, PUR cable
	Other suitable accessories can be found at www.pepperl-fuchs.com
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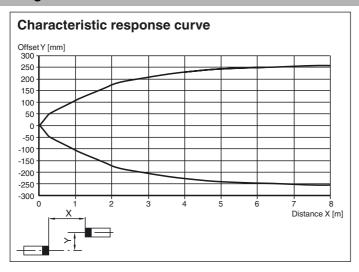
fa-info@us.pepperl-fuchs.com

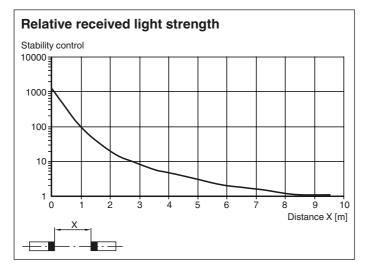
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Curves/Diagrams





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