



((EAC

Model Number

ML300-P-6m-RT/25/98/103

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

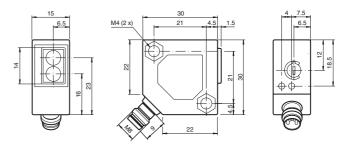
Features

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

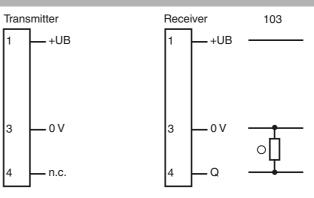
Product information

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.

Dimensions



Electrical connection



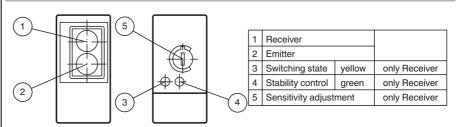
- O = Light on
- = Dark on

Pinout

dance with EN 60947-5-2

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

Indicators/operating means



Technical data		
System components		
Emitter		ML300-T-6m-RT/98
Receiver		ML300-R-6m-RT/25/98/103
General specifications		
Effective detection range		0 6 m
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 LED green: Sufficient stability control
Control elements		sensitivity adjustment
Electrical specifications		
Operating voltage	U_B	10 30 V DC
Ripple	_	max. 10 %
No-load supply current	I ₀	Emitter: ≤ 20 mA Receiver: ≤ 20 mA
Output		
Switching type		light on
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_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		35 g (emitter and receiver)
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		
EAC conformity		TR CU 020/2011
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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

V3-GM-2M-PVC

Female cordset single-ended, M8, 3-pin, PVC cable

V3-WM-2M-PVC

Female cordset single-ended, M8, 3-pin, PVC cable

V3-WM-2M-PUR

Female cordset single-ended, M8, 3-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com

FPEPPERL+FUCHS

CCC approval

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

Curves/Diagrams

