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Model Number

ML300-P-6m-RT/59/98/103

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

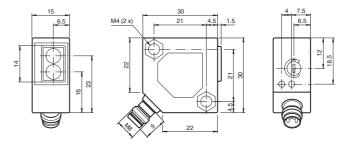
Features

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

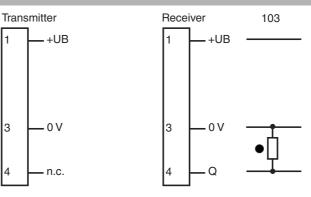
Product information

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

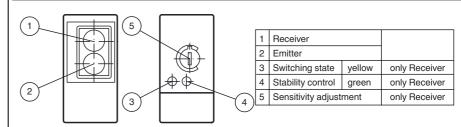


- O = Light on
- = Dark on

Pinout



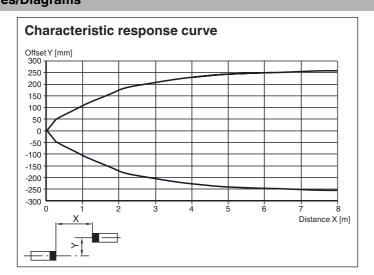
Indicators/operating means



Technical data System components Emitter ML300-T-6m-RT/98 ML300-R-6m-RT/59/98/103 Receiver **General specifications** Effective detection range 0 6 m Threshold detection range 8 m Light source LED modulated visible red light 660 nm Light type Diameter of the light spot approx. 500 mm at 6 m Angle of divergence approx. 5 Ambient light limit 10000 Lux Continuous light 5000 Lux Modulated light Indicators/operating means Control elements sensitivity adjustment **Electrical specifications** Operating voltage 10 ... 30 V DC U_{B} Ripple max. 10 % No-load supply current I_0 Emitter: ≤ 20 mA Receiver: ≤ 15 mA Output Switching type dark on 1 PNP output, short-circuit protected, reverse polarity protected, Signal output open collector max. 30 V DC Switching voltage Switching current max. 0.1 A < 2 V DC Voltage drop U_{d} Switching frequency 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 metal Connector 35 g (emitter and receiver) Compliance with standards and 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

Curves/Diagrams

CCC approval



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