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Model Number

ML300-8-600-RT/25/98/102

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

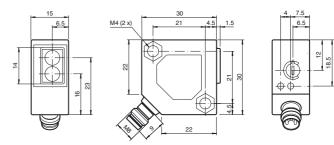
Features

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

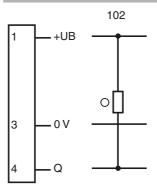
Product information

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

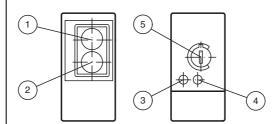
Pinout

Wire colors in accordance with EN 60947-5-2



BN (brown BU (blue BK (blace

Indicators/operating means

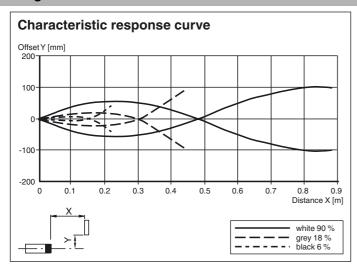


	1	Receiver	
	2	Emitter	
	3	Switching state	yellow
	4	Stability control	green
	5	Sensing range adjuster	

Technical data General specifications 0 ... 600 mm, adjustable Detection range Adjustment range 150 ... 600 mm standard white 200 mm x 200 mm Reference target Light source modulated visible red light, 660 nm Light type Diameter of the light spot approx. 130 mm at a distance of 600 mm Angle of divergence approx. 13° 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 Sensing range adjuster **Electrical specifications** Operating voltage 10 ... 30 V DC max. 10 % Ripple No-load supply current max. 35 mA Output Switching type light on 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 < 2 V DC Voltage drop Switching frequency 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 M8 x 1 connector, 3-pin Connection Material ABS Housing Optical face plastic Connector metal 18 g Mass 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

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

Curves/Diagrams



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

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