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Model Number

ML300-8-1200-IR/25/95/127

Diffuse mode sensor with M8, 4-pin metal connector

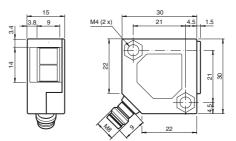
Features

- Miniature design
- Easy to use
- Infrared light
- High operating range
- 45° connector

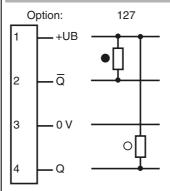
Product information

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



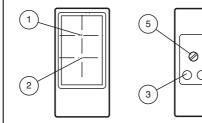
- O = Light on
- = Dark on

Pinout



(4)

Indicators/operating means



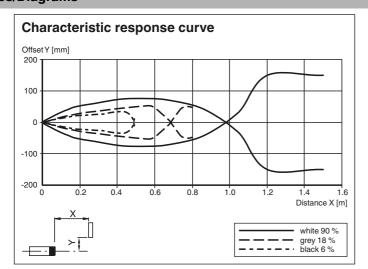
1	Receiver		
2	Emitter		
3	Switching state	yellow	
4	Stability control	green	
5	Sensing range adjuster		

Technical data General specifications 0 ... 1200 mm, adjustable Detection range Adjustment range 250 ... 1200 mm Reference target standard white 200 mm x 200 mm Light source modulated infrared light, 880 nm Light type Diameter of the light spot approx. 160 mm at a distance of 1200 mm Angle of divergence approx. 8° Ambient light limit Continuous light 10000 Lux Modulated light 5000 Lux Accessories provided Mounting bracket OMH-ML300-01 Screwdriver Indicators/operating means LED yellow: lights up when output is active LEDgreen: Sufficient stability control Function indicator Control elements Detection range adjuster **Electrical specifications** U_{B} Operating voltage 10 ... 30 V DC Ripple max. 20 % No-load supply current max, 20 mA I_0 Output Switching type light on / dark on 2 NPN outputs, complementary, short-circuit proof, reverse-Signal output polarity protection, open collector Switching voltage max. 30 V DC max. 0.1 A Switching current ≤ 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** Protection degree IP67 Connection M8 x 1 connector, 4-pin Material Housing Optical face glass pane Connector metal Mass 18 q Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC FN 60947-5-2:2007 Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 60947-5-7 30 g, 11 ms, all axes Shock and impact resistance EN 60947-5-7, 10-55 Hz/1.5 mm amplitude, all axes Vibration resistance

Curves/Diagrams

CCC approval

Approvals and certificates



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

V31-GM-2M-PVC

Female cordset, M8, 4-pin, PVC cable

V31-WM-2M-PVC

Female cordset, M8, 4-pin, PVC cable

V31-WM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

V31-GM-2M-PUR

Female cordset, M8, 4-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