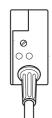
Thru-beam sensor



M4 (2 x) 4.5 Ø 00



CE

Model Number

ML300-P-12m-IR/76b/82d/103/115

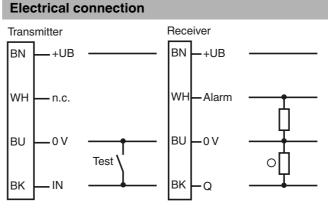
Thru-beam sensor with 2 m fixed cable

Features

- Miniature design ٠
- Easy to use ٠
- Infrared light •
- High operating range •
- 45° cable connector ٠

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.

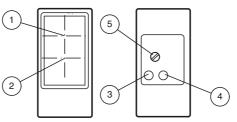


O = Light on

Dimensions

= Dark on

Indicators/operating means



| 1 | Receiver | | |
|---|------------------------|--------|---------------|
| 2 | Emitter | | |
| 3 | Switching state | yellow | only Receiver |
| 4 | Stability control | green | only Receiver |
| 5 | Sensitivity adjustment | | only Receiver |

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

www.pepperl-fuchs.com fa-info@us.pepperl-fuchs.com

USA: +1 330 486 0001

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com ⁵ PEPPERL+FUCHS 1

| Technical data | |
|--|--|
| System components | |
| Emitter | ML300-T-12m-IR/76b/115 |
| Receiver | ML300-R-12m-IR/25/82d/103/115 |
| General specifications | |
| Effective detection range | 0 12 m |
| Threshold detection range | 14 m |
| Light source | IRED |
| Light type | modulated infrared light 880 nm |
| Diameter of the light spot | approx. 4 m at 12 m |
| Angle of divergence | approx. 7 ° |
| 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 | J _B 1030 V DC |
| Ripple | max. 20 % |
| No-load supply current | 0 Emitter: ≤ 15 mA Receiver: ≤ 10 mA |
| Input | |
| Test input | emitter: 1 test input, not activated: < 4 V, activated: > 8 V or open |
| Output | |
| Pre-fault indication output | 1 PNP, inactive when falling short of the stability control, oper collector, short-circuit protected, reverse polarity protected, 100 mA max |
| Switching type | light on |
| Signal output | 1 PNP output, short-circuit protected, reverse polarity protecte open collector |
| Switching voltage | max. 30 V DC |
| Switching current | max. 0.1 A |
| Voltage drop | $J_d \leq 2 V DC$ |
| 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 | IP67 |
| Connection Material | 2 m fixed cable |
| Housing | РВТ |
| Optical face | glass pane |
| Cable | PVC |
| Mass | 150 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 | |

Accessories

OMH-ML300-01 Bracket for mounting ML300 series sensors

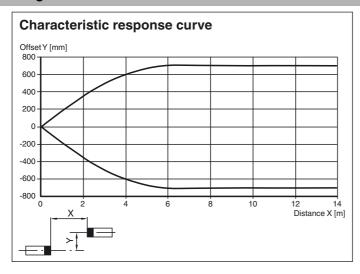
OMH-ML300-02 Bracket for mounting ML300 series sensors on a 35 mm DIN rail

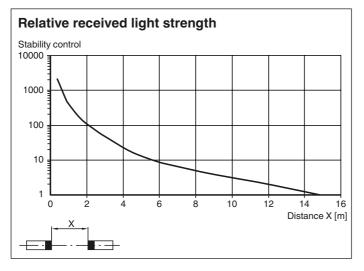
Other suitable accessories can be found at www.pepperl-fuchs.com

2

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Curves/Diagrams





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