

Dimensions







Model Number

ML100-55/103/115a

Retroreflective sensor

with fixed cable and 4-pin, M8 connector

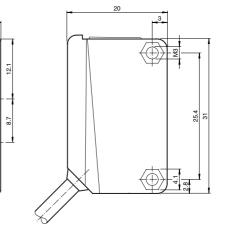
Features

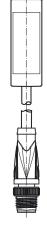
- Miniature design ٠
- Easy to use ٠
- Clearly visible LEDs for Power ON, ٠ switching state and stability control
- Full metal thread mounting
- Very bright, highly visible light spot ٠
- Not sensitive to ambient light •

Product information

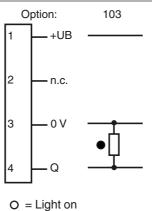
The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly visible LEDs.

5





Electrical connection

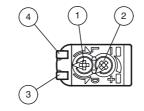


= Dark on

Pinout



Indicators/operating means



| 1 | Light-Dark-switching | |
|---|----------------------|--------|
| 2 | Sensitivity adjuster | |
| 3 | Signal display | yellow |
| 4 | Operating display | green |

Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Technical data

Reflector distance

Reference target

Polarization filter

Angle of divergence

Ambient light limit

Mission Time (T_M)

Operation indicator

Function indicator

Control elements

Control elements

Operating voltage

Switching type

Switching voltage

Switching current

Switching frequency

Ambient conditions

Ambient temperature

Storage temperature

Degree of protection

Connection

Housing

Optical face

Cable length

Directive conformity

Standard conformity Standards

EMC Directive 2004/108/EC

Approvals and certificates

Material

Mass

ves

Mechanical specifications

Signal output

Voltage drop

Response time

Ripple

Output

Electrical specifications

No-load supply current

Diagnostic Coverage (DC)

Indicators/operating means

Light source

Optical face

MTTF_d

Light type

General specifications

Effective detection range

Threshold detection range

Diameter of the light spot

0...5m 0.01 ... 5 m 7 m H50 reflector I FD modulated visible red light yes approx. 500 mm at a distance of 7 m approx. 4 ° frontal EN 60947-5-2 Functional safety related parameters 860 a 20 a 0% LED green: power on **OMH-10** LED yellow: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam is interrupted sensitivity adjustment Light/Dark switch 10 ... 30 V DC , class 2 UB max. 10 % I_0 < 20 mA ting hole light/dark on, switchable 1 PNP output, short-circuit protected, reverse polarity protected, open collector max, 30 V DC REF-H50 max. 100 mA , resistive load U_{d} \leq 1.5 V DC 1000 Hz 0.5 ms REF-H33 -30 ... 60 °C (-22 ... 140 °F) -40 ... 70 °C (-40 ... 158 °F) **OFR-70-2** IP67 300 mm fixed cable with M8 connector, 4-pin PC (Polycarbonate) PMMA approx. 20 g 0.3 m Compliance with standards and directi-EN 60947-5-2 UL 508 cULus Listed, Class 2 Power Source, Type 1 enclosure

UL approval CCC approval Approvals

CCC approval / marking not required for products rated \leq 36 V CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)

Accessories

OMH-F10-ML100 Mounting aid for ML100 series

OMH-ML100-01 Mounting bracket

OMH-ML100-02 Mounting bracket

OMH-ML100-03 Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04 Mounting bracket

OMH-ML100-05 Mounting bracket

Mounting aid

REF-H85-2 Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes

REF-C110-2 Reflector, round ø 84 mm, central moun-

REF-H60-2 Reflector with mounting holes

Reflector, rectangular 51 mm x 51 mm, mounting holes, fixing strap

Reflector with screw fixing

Reflective tape 70 mm x 70 mm

OMH-ML100-08 Mounting aid

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

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

Pepperl+Fuchs Group www.pepperl-fuchs.com

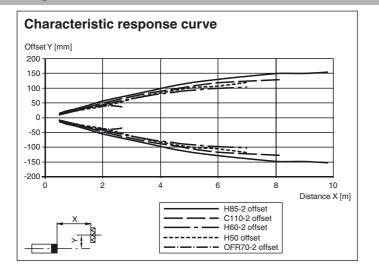
Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

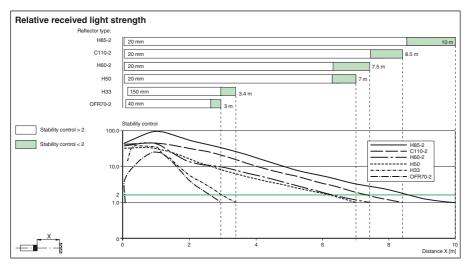
Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



2

Curves/Diagrams





Release date: 2014-05-09 12:22 Date of issue: 2014-05-09 221826_eng.xml

