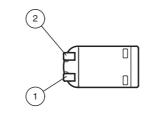


## Indicators/operating means



1	Signal display	yellow
2	Operating display	green

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



Pepperl+Fuchs Group www.pepperl-fuchs.com

Tec	hn	ical	data

Technical data		
General specifications		
Effective detection range		05m
Reflector distance		0.01 5 m
Threshold detection range		7 m
Reference target		H50 reflector
Light source		LED
Light type		modulated visible red light
Diameter of the light spot		approx. 500 mm at a distance of 7 m
Angle of divergence		approx. 4 °
Optical face		frontal
Ambient light limit		EN 60947-5-2
Functional safety related parame	ters	
MTTF <sub>d</sub>		860 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: power on
Function indicator		LED yellow: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam is interrupted
Electrical specifications		
Operating voltage	UB	10 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I <sub>0</sub>	< 20 mA
Output		
Switching type		dark on
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA , resistive load
Voltage drop	U <sub>d</sub>	≤ 1.5 V DC
Switching frequency	f	1000 Hz
Response time		0.5 ms
Ambient conditions		
Ambient temperature		-30 60 °C (-22 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Protection degree		IP67
Connection		M8 x 1 connector, 3-pin
Material		
Housing		PC (Polycarbonate)
Optical face		РММА
Mass		approx. 10 g
Compliance with standards and ves	directi	
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Standards		UL 508
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure

CCC approval Approvals

pe 1 enclosure CCC approval / marking not required for products rated ≤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-ML100-03 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

**OMH-10** 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 mounting hole

**REF-H60-2** Reflector with mounting holes

REF-H50 Reflector, rectangular 51 mm x 51 mm, mounting holes, fixing strap

REF-H33 Reflector with screw fixing

OFR-70-2 Reflective tape 70 mm x 70 mm

REF-MH23-2 Reflector with Micro-structure, rectangular 23 mm x 14 mm, diagonal mounting hole

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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

Pepperl+Fuchs Group www.pepperl-fuchs.com

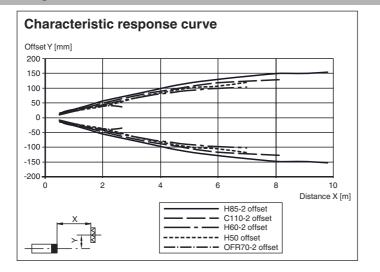
Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

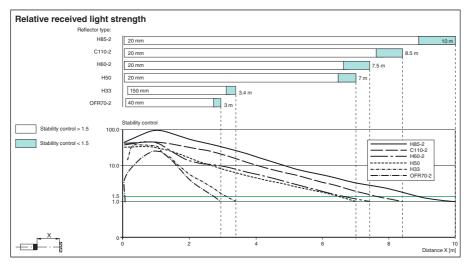
Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



2

## **Curves/Diagrams**





Release date: 2013-09-19 10:57 Date of issue: 2013-10-07 258545\_eng.xml

