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Model Number

ML300-55-6m-RT/25/82d/95/103

Retroreflective sensor with 4-pin, M8 x 1 connector

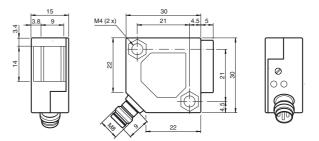
Features

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

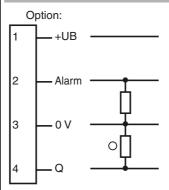
Product information

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

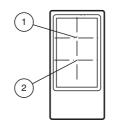
Pinout

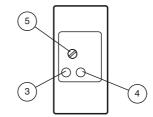
Wire colors in accordance with EN 60947-5-2

2 1 3

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Indicators/operating means





	1	Receiver			
	2				
4 5		Switching state	yellow		
		Stability control	green		
		Sensitivity adjustment			



Technical data		
General specifications		
Effective detection range		0 6 m
Reflector distance		0.03 6 m
Threshold detection range		7 m
Reference target		H85-2 reflector
Light source		LED
Light type		modulated visible red light , 660 nm
Polarization filter		yes
Diameter of the light spot		approx. 300 mm at 4 m
Angle of divergence		approx. 3 °
Ambient light limit		THE TOTAL STREET
Continuous light		10000 Lux
Modulated light		5000 Lux
Accessories provided		Mounting bracket OMH-ML300-01 Screwdriver
Indicators/operating means		Colonalitor
Function indicator		LED yellow: lights up when output is active
. a.louoti irialoutoi		LED green: Sufficient stability control
Control elements		sensitivity adjustment
Electrical specifications		
Operating voltage	UB	10 30 V DC
Ripple		max. 20 %
No-load supply current	I _O	max. 20 mA
Output		
Pre-fault indication output		1 PNP, inactive when falling short of the stability control , open collector , short-circuit protected, reverse polarity protected , 100 mA max
Switching type		light on
Signal output		PNP output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 0.1 A
Voltage drop	U_d	≤2 V DC
Switching frequency	f	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		
•		30 mm
Housing width Housing height		30 mm
Housing depth		15 mm IP67
Degree of protection Connection		
Material		M8 x 1 connector, 4-pin
		PBT
Housing		
Optical face Connector		glass pane
Mass		metal 18 g
Compliance with standards and directives		10 9
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		
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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 single-ended, M8, 4-pin, **PVC** cable

V31-WM-2M-PVC

Female cordset single-ended, M8, 4-pin, PVC cable

V31-WM-2M-PUR

Female cordset single-ended, M8, 4-pin, PUR cable

V31-GM-2M-PUR

Female cordset single-ended, M8, 4-pin, PUR cable

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

Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap

REF-H60-2

Reflector with mounting holes

REF-VR10-2

Reflector, rectangular 60 mm x 19 mm, mounting holes

OFR-100/100

Reflective tape 100 mm x 100 mm

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

FPEPPERL+FUCHS

CCC approval

CCC approval / marking not required for products rated \leq 36 V

Curves/Diagrams

