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Model Number

ML300-55-6m-RT/25/95/127

Retroreflective sensor with 4-pin, M8 x 1 connector

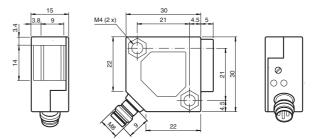
Features

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

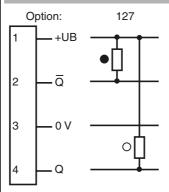
Product information

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



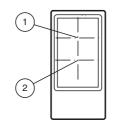
- O = Light on
- = Dark on

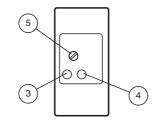
Pinout

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	Emitter		
3	Switching state yellow		
4	Stability control green		
5	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		
Continuous light		10000 Lux
Modulated light		5000 Lux
Accessories provided		Mounting bracket OMH-ML300-01 Screwdriver
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	U _B	10 30 V DC
Ripple		max. 20 %
No-load supply current	I ₀	max. 20 mA
Output		
Switching type		light on / dark on
Signal output		2 NPN outputs, complementary, short-circuit proof, reverse- polarity protection, 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		
Housing width		30 mm
Housing height		30 mm
Housing depth		15 mm
Degree of protection		IP67
Connection		M8 x 1 connector, 4-pin
Material		me x i comission, i pin
Housing		PBT
Optical face		glass pane
Connector		metal
Mass		18 g
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

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

REF-H50

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

CCC approval

CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

