Diffuse mode sensor

(6

CE

Model Number

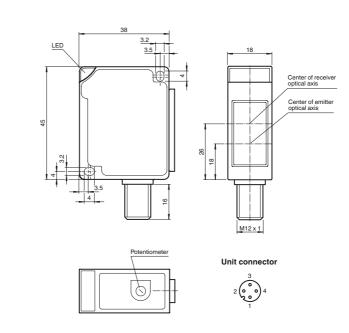
MLV13-8-400/32/40b/73c

Diffuse mode sensor with 4-pin, M12 connector

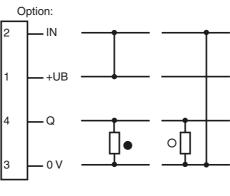
Features

- Visible red light ٠
- Pre-fault indication •
- Control input for light/dark switching •
- Degree of protection IP67 •

Dimensions



Electrical connection





Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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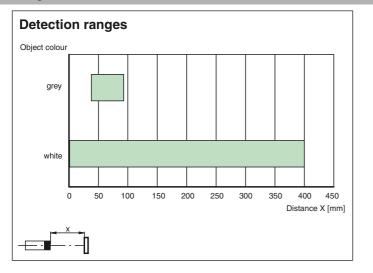
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MLV13-8-400/32/40b/73c

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Technical data		
General specifications		
Detection range		5 400 mm , adjustable
Reference target		standard white, 100 mm x 100 mm
Light source		LED
Light type		modulated visible red light
Ambient light limit		10000 Lux
Indicators/operating means		
Function indicator		switching state: LED yellow pre-fault indicator: LED red
Control elements		sensitivity adjustment
Electrical specifications		
Operating voltage	UB	10 30 V DC
Ripple		10 %
No-load supply current	I ₀	≤ 25 mA
Time delay before availability	t _v	≤ 30 ms
Input		
Control input		light on +UB dark on: 0 V
Output		
Switching type		light/dark on
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 200 mA
Voltage drop	U _d	≤ 2.5 V DC
Switching frequency	f	≤ 500 Hz
Response time		≤ 1 ms
Conformity		
Product standard		EN 60947-5-2
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Housing width		18 mm
Housing height		45 mm
Housing depth		38 mm
Degree of protection		IP67
Connection		M12 connector, 4-pin
Material		
Housing		ABS
Optical face		scratch resistant plastic lens
Mass		40 g
Approvals and certificates		
CCC approval		CCC approval / marking not required for products rated ≤36 V
Approvals		CE

Curves/Diagrams

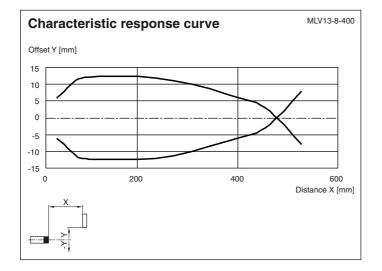


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Additional Information

Conventional use:

The reflex light scanner contains the emitter and receiver in a single housing. The light from transmitter is beamed back from the recorded object is evaluated by the receiver. The detection range depend on the object colour. With dark or very small objects the detection range reduces.

Mounting instructions:

The sensor can be fastened over the through-holes directly or with the included mounting bracket. The base surface must be flat to avoid distorting the housing during mounting. It is advisable to secure the bolts and screws with washers so that the sensor does not become misaligned.

Instructions for adjustment:

Adjust the sensor on the background. If the yellow LED illuminates, the detection range needs to be reduced with the detection range adjuster, until the yellow LED goes off.

Object detection check:

Position the object into the light beam. Position light spot on object. If the object is detected, the yellow LED illuminated. If it does not light up, further to adjust the detection range with the potentiometer, until the yellow LED lights up. The red LED flashes if reception deteriorates (e.g. soiled lenses or by maladjustment) and when falling short of the stability control.

lustration:

We recommend that you clean the optical interfaces and check the plug-in connections and screw connections at regular intervals.

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