Dimensions



CE

Model Number

MLV13-54/32/40b/115

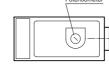
Retroreflective sensor with polarization filter

with 2 m fixed cable

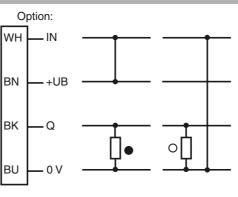
Features

- · Visible red light
- Glare protected with polarization filter ٠
- Pre-fault indication
- Control input for light/dark switching •
- Degree of protection IP67

LED Center of rec optical axis Center of ontical axi 42 90 18 h



Electrical connection





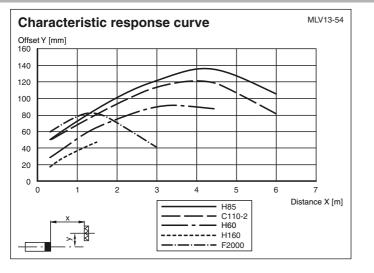
Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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Concept on colfic stimus		
General specifications		0 0
Effective detection range		06m
Threshold detection range		7 m
Reference target		reflector C110-2
Light source		LED
Light type		modulated visible red light
Polarization filter		yes
Diameter of the light spot		200 mm at a distance of 6000 mm
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	≤ 80 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		2 m fixed cable
Material		
Housing		ABS
Optical face		scratch resistant plastic lens
Mass		40 g
Approvals and certificates		
		CCC approval / marking not required for products rated ≤36 \
CCC approval		See approval/ marking not required for products rated 500 t

Curves/Diagrams

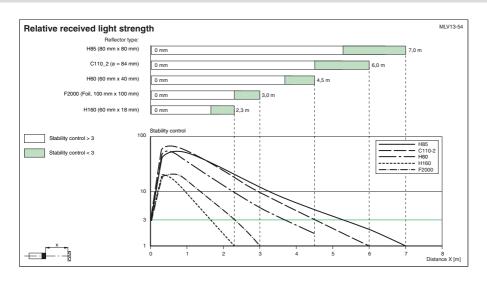


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Additional Information

Conventional use:

The reflex light beam switch contains the emitter and receiver in a single housing. The light from transmitter is beamed back from a reflector to the receiver. If an object interrupts the light beam the switching function is initiated.

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 to prevent misalignment of the sensor.

Instructions for adjustment:

Connect the sensor to operating voltage, the LED green lights up constantly.

Mount suitable reflector opposite light beam switch and align roughly.

The exact adjustment takes by swivelling the sensor horizontally and vertically. With optimum light reception the yellow LED lights up constantly. In case of bad alignment, the red LED lights up.

Object detection check:

Move the object into the light beam. If the object is recorded, the yellow LED goes off. If it isn't going off, reduce the sensitivity with the potentiometer until it goes off. It should light up constantly again when the object is removed. The red LED lights up 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.