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Model Number

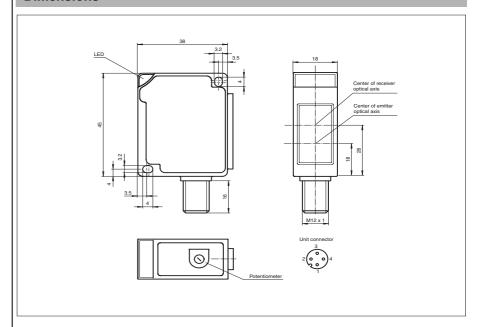
MLV13-54/32/40b/73c

with 4-pin, M12 connector

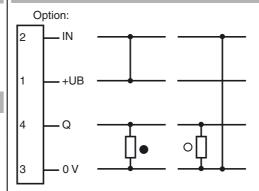
Features

- · Visible red light
- Glare protected with polarisation filter
- · Pre-fault indication
- Control input for light-/dark switching
- Protection degree IP67

Dimensions



Electrical connection



- O = Light on
- = Dark on

Technical data

General specifications

Effective detection range 0 ... 6 m Threshold detection range 7 m LED Light source Approvals CE

Reference target reflector C110-2 Light type red, modulated light

Diameter of the light spot 200 mm at a distance of 6000 mm

Ambient light limit 10000 Lux

Indicators/operating means

switching state: LED yellow pre-fault indicator: LED red Function display

Operating elements sensitivity adjuster

Electrical specifications

Operating voltage 10 ... 30 V DC 10 % Ripple ≤ 25 mA No-load supply current Time delay before availability ≤ 80 ms t_v

Input

Control input Light ON: +UB Dark ON: 0 V

Output

Switching type light/dark switching

1 PNP output, short-circuit proof, protected from reverse polarity, open collector Signal output

max. 30 V DC Switching voltage max. 200 mA Switching current $U_{\rm d}$ Voltage drop ≤ 2.5 V DC Switching frequency ≤ 500 Hz ≤ 1 ms Response time

Standard conformity

Standards EN 60947-5-2

Ambient conditions

Ambient temperature -25 ... 70 °C (248 ... 343 K) -40 ... 70 °C (233 ... 343 K) Storage temperature

Mechanical specifications

Protection degree IP67

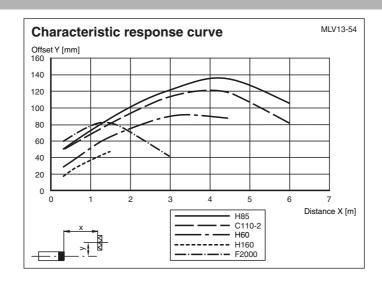
Connection M12 connector, 4-pin

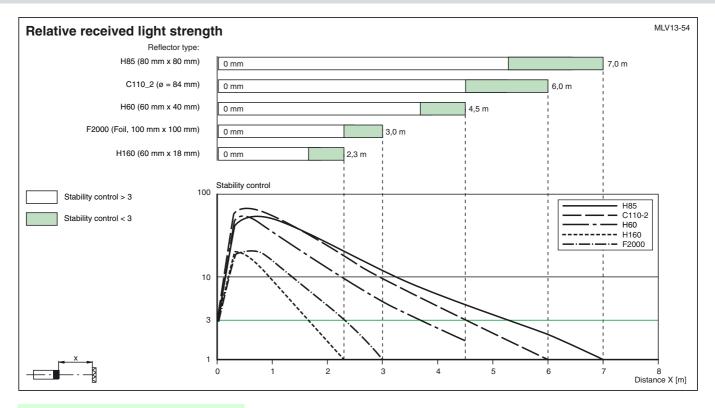
Material Housing ABS

Optical face scratch resistant plastic pane

40 g Mass

Curves/Diagrams





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.