

CE

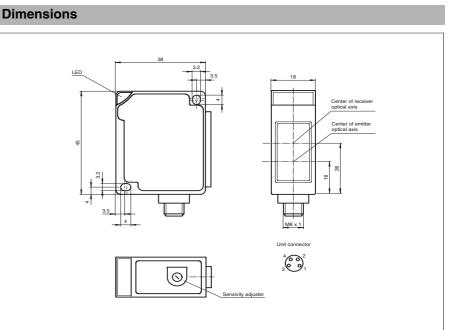
Model Number

MLV13-54/30/40b/95

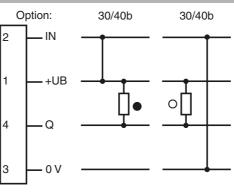
with 4-pin, M8 connector

Features

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



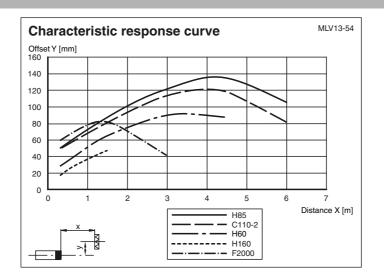
Electrical connection



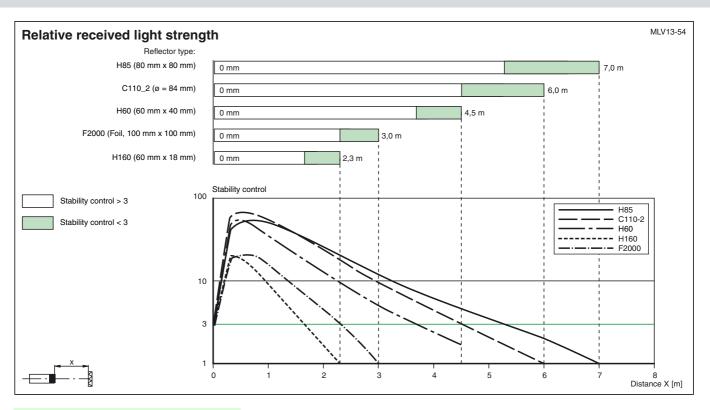


Technical data		
General specifications		
Effective detection range		0 6 m
Threshold detection range		7 m
Light source		LED
Approvals		CE
Reference target		reflector C110-2
Light type		red, modulated light
Diameter of the light spot		200 mm at a distance of 6000 mm
Ambient light limit		10000 Lux
Indicators/operating means		
Function display		switching state: LED yellow pre-fault indicator: LED red
Operating elements		sensitivity adjuster
Electrical specifications		
Operating voltage		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 switching
Signal output		1 NPN output, short-circuit proof, protected from reverse polarity, 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
Standard conformity		
Standards		EN 60947-5-2
Ambient conditions		
Ambient temperature		-25 70 °C (248 343 K)
Storage temperature		-40 70 °C (233 343 K)
Mechanical specifications		
Protection degree		IP67
Connection		M8 connector, 4-pin
Material		
Housing		ABS
Optical face		scratch resistant plastic pane
Mass		40 g

Curves/Diagrams



Release date: 2007-08-15 16:21 Date of issue: 2007-08-15 088774_ENG.xml



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.