

Reflection light scanner

MLV13-8-400/30/40b/95

with 4-pin, M8 connector

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- Visible red light
- Pre-fault indication
- Control input for light-/dark switching
- Protection degree IP67

General specifications

Detection range 5 ... 400 mm, adjustable

Light source LED CE Approvals

Reference target standard white, 100 mm x 100 mm

red, modulated light Light type

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

Time delay before availability t_v

10 ... 30 V DC Operating voltage Ripple 10 % No-load supply current I₀ ≤ 25 mA

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

≤ 30 ms

max. 30 V DC Switching voltage Switching current max. 200 mA ≤ 2.5 V DC Voltage drop U_d Switching frequency ≤ 500 Hz Response time ≤ 1 ms

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 M8 connector, 4-pin

Material

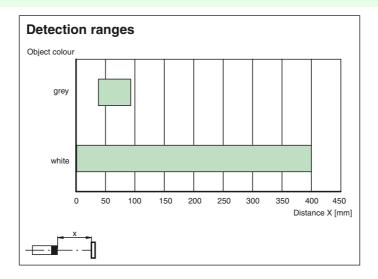
Housing ABS

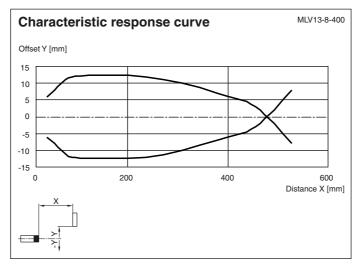
Optical face scratch resistant plastic lens

Mass 40 g

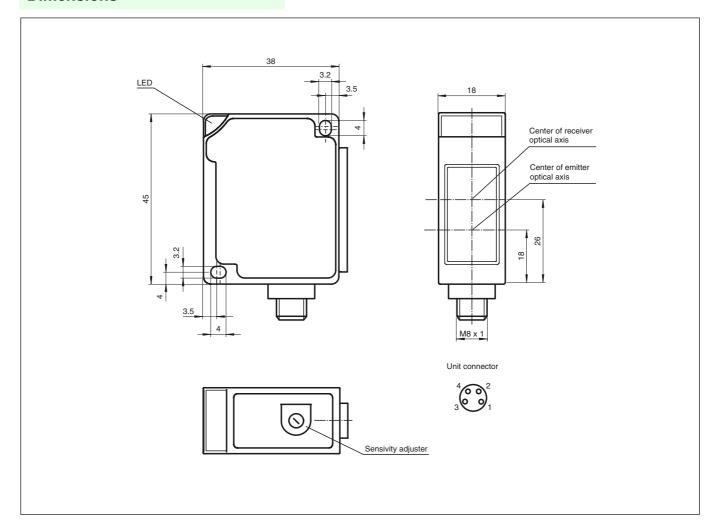


Curves/Diagrams

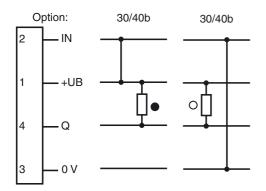




Dimensions



Electrical connection



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 con-

lustration:

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