









Model Number

MLV41-55/25/95/136

Retroreflective sensor with 4-pin, M8 x 1 connector

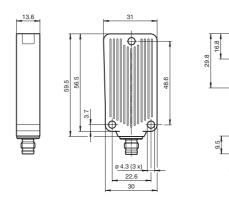
Features

- Rugged series in corrosion-resistant metal housing
- · Extremely high switching frequency
- Clear and functional display concept for the operating modes
- Resistant against noise: reliable operation under all conditions
- Aluminum housing with high quality Delta-Seal coated

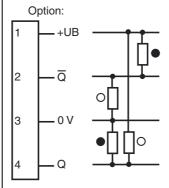
Product information

The unique and extremely popular design of the MLV41 series enables it be mounted correctly in confined areas and offers all the functions that are normally only found on larger phototelectric sensors. The MLV41 series comes with a range of functions grouped together under the VISO+ quality symbol. For example, highly visible status LEDs on the front and back, resistance to ambient light, crosstalk protection and universally applicable output stages that permit every possible switching logic and polarity to be realized. The enhanced resistance to ambient light ensures reliable operation even where modern energy-saving lamps with electronic ballasts are in use. The same applies where multiple devices are present, i.e. the use of a number of sensors in the same vicinity causes no problems.

Dimensions



Electrical connection

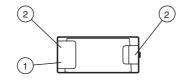


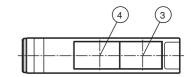
- O = Light on
- = Dark on

Pinout



Indicators/operating means





1	Operating display green	3	Optical axis transmitter
2	Function display yellow	4	Optical axis receiver

www.pepperl-fuchs.com

Technical data General specifications Effective detection range 0 ... 8 m Reflector distance 0.1 ... 8 m Threshold detection range 10 m Reference target H85-2 reflector Light source LED Light type modulated visible red light, 625 nm Angle deviation Diameter of the light spot approx. 300 mm at detection range 8.5 m Angle of divergence 1.5 Optical face frontal Ambient light limit 20000 Lux Functional safety related parameters MTTF_d 844 a Mission Time (T_M) 20 a 0 % Diagnostic Coverage (DC) Indicators/operating means Operating display LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz) Function display LED yellow, lights up when light beam is free, flashes when falling short of the stability control Controls none **Electrical specifications** Operating voltage 10 ... 30 V DC Ripple max. 10 % No-load supply current max. 30 mA Output 2 push-pull (4 in 1) outputs, complementary, short-circuit proof, Signal output reverse polarity protected Switching voltage max. 30 V DC Switching current max. 100 mA ≤ 2.5 V DC Voltage drop U_{d} Switching frequency 1000 Hz 0.5 ms Response time **Ambient conditions** Ambient temperature -40 ... 60 °C (-40 ... 140 °F) -40 ... 75 °C (-40 ... 167 °F) Storage temperature Mechanical specifications Protection degree Connection M8 x 1 connector, 4-pin Material Housing aluminum, Delta-Seal coated Optical face glass pane Connector metal 50 g Mass Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC EN 60947-5-2:2007 Standard conformity Product standard FN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates cULus Listed 57M3 (Only in association with UL Class 2 **UL** approval power supply; Type 1 enclosure) CCC approval CCC approval / marking not required for products rated ≤36 V

Accessories

OMH-09

Mounting bracket for Sensors series MLV41 for M12 rod mounting

OMH-40

Mounting bracket

V31-WM-2M-PUR

4-pin, M8 socket, PUR cable

V31-GM-2M-PUR

4-pin, M8 socket, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com

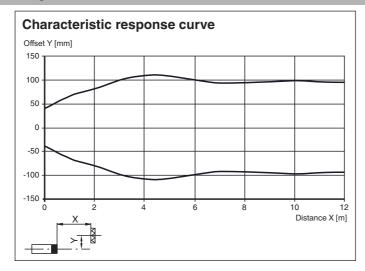
www.pepperl-fuchs.com

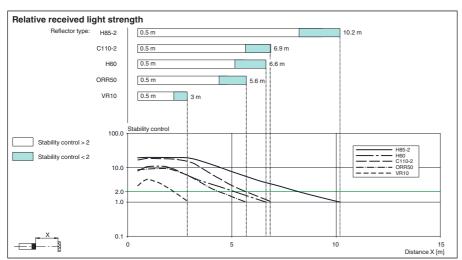
Copyright Pepperl+Fuchs

Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com

Curves/Diagrams





Pepperl+Fuchs Group

www.pepperl-fuchs.com