







VISC+

Model Number

MLV41-8-H-350-IR/59/115/136

Background suppression sensor with 2 m fixed cable

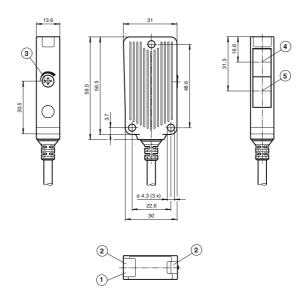
Features

- Rugged series in corrosion-resistant metal housing
- Reliable detection of all surfaces, independent of color and structure
- Minimal black-white difference
- Precision background suppression, adjustable
- Extremely high switching frequency
- Clear and functional display concept for the operating modes

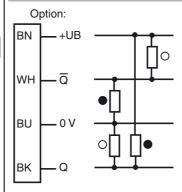
Product information

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. 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



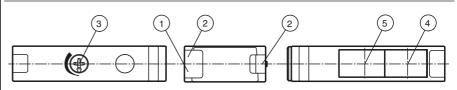
Electrical connection



O = Light on

= Dark on

Indicators/operating means



1	Operating display green	3	Sensing range adjuster	5	Optical axis receiver
2	Function display vollow	1	Ontical axis transmitter		

Technical data General specifications Detection range 50 ... 350 mm, adjustable Detection range min. 10 ... 50 mm 30 ... 350 mm Detection range max 50 ... 350 mm Adjustment range + 10 % of the upper limit of the detection range Background suppression Light source Light type modulated infrared light, 880 nm Black/White difference (6 %/90 %) < 10 % at 350 mm Diameter of the light spot approx. 18 mm at 350 mm sensor range Angle of divergence 3 Ambient light limit 40000 Lux Functional safety related parameters 1260 a MTTF_d Mission Time (T_M) 20 a 0 % Diagnostic Coverage (DC) Indicators/operating means Operation indicator LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz), short-circuit: LED green flashing (approx. 4 Hz) Function indicator 2 LEDs vellow ON: object inside the scanning range OFF: object outside the scanning range Control elements Sensing range adjuster **Electrical specifications** Operating voltage 10 ... 30 V DC U_{R} Ripple max. 10 % No-load supply current max. 25 mA Output Signal output 2 push-pull (4 in 1) outputs, complementary, short-circuit proof, reverse polarity protected Switching voltage max. 30 V DC Switching current max. 100 mA Voltage drop ≤ 2.5 V DC U_d Switching frequency 1000 Hz 0.5 ms Response time Conformity Product standard EN 60947-5-2 **Ambient conditions** -40 ... 60 °C (-40 ... 140 °F) Ambient temperature Storage temperature -40 ... 75 °C (-40 ... 167 °F) **Mechanical specifications** Housing width 31 mm Housing height 56.5 mm Housing depth 13.6 mm Degree of protection IP67 Connection 2 m fixed cable Material Housing Aluminum, Delta-Seal coated Optical face glass pane 100 g Mass Approvals and certificates Protection class II, rated voltage ≤ 50 V AC with pollution degree 1-2 according to IEC 60664-1, functional insulation acc. to DIN EN 50178 **UL** approval cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)

Accessories

OMH-40

Mounting bracket

OMH-09

Mounting bracket for Sensors series MLV41 for M12 rod mounting

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

FPEPPERL+FUCHS

CCC approval

CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

