





VISCO @ 10-Link CE

Model Number

MLV41-55-IO/98/103

Retroreflective sensor with 3-pin, M8 x 1 connector

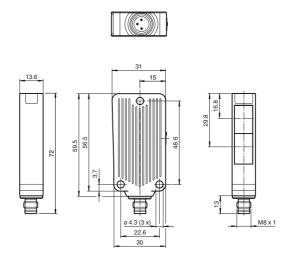
Features

- Rugged series in corrosion-resistant metal housing
- IO-link interface for service and process data
- 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

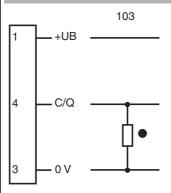
Product information

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

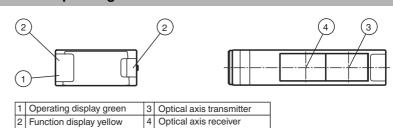


- O = Light on
- = Dark on

Pinout



Indicators/operating means



Date of issue:

Release date: 2015-02-26 13:45



Technical data General specifications Effective detection range 0 ... 7 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 Polarization filter Angle deviation max. ± 1.5 ° 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 844 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit: LED green flashing (approx. 4 Hz) , IO link communication: green LED Operation indicator goes out briefly (1 Hz) Function indicator LED yellow, lights up when light beam is free, flashes when falling short of the stability control Control elements **Electrical specifications** 10 ... 30 V DC Operating voltage U_{B} Ripple max. 10 % No-load supply current max. 30 mA I_0 Interface Interface type IO-Link Protocol IO-Link V1.0 COM 2 (38.4 kBaud) Mode Output Signal output 1 PNP output, short-circuit protected, reverse polarity protected, open collector Switching voltage max. 30 V DC Switching current max. 100 mA ≤ 2.5 V DC Voltage drop Switching frequency 1000 Hz Response time 0.5 ms Ambient conditions Ambient temperature -40 ... 60 °C (-40 ... 140 °F) Storage temperature -40 ... 75 °C (-40 ... 167 °F) **Mechanical specifications** Degree of protection IP67 Connection M8 x 1 connector, 3-pin Material Housing aluminum, Delta-Seal coated Optical face glass pane Connector metal Mass 50 g 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 **UL** approval cULus Listed 57M3 (Only in association with UL Class 2 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

IO-Link-Master02-USB

IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection

IO-Link-Master-USB DTM

Communication DTM for use of IO-Link-Master

IODD Interpreter DTM

Software for the integration of IODDs in a frame application (e. g. PACTware)

PACTware 4.X

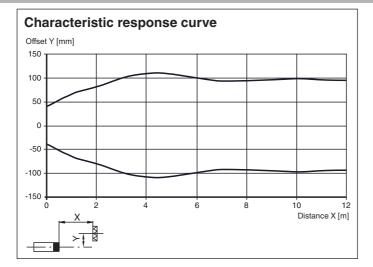
FDT Framework

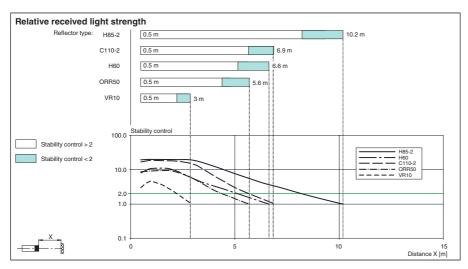
MLV41-55 IODD

IODD for communication with MLV41-55-IO-Link sensors

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

Curves/Diagrams





IO-Link

The IO-Link Operating Mode is displayed in a short interception (f = 1 Hz) in the green LED display. The IO-Link communication makes process data (measured data of the sensor) and access to the necessity data available at the same time.

The necessity data contains the following information:

Identification:

- Producer information
- Product ID
- User-specific ID

Device parameter:

- Teach-in parameter
- Operation parameter
- Configuration parameter
- Device commandos

Diagnostic message and warnings