



Background suppression sensor MLV41-8-H-350-RT/59/115/136



- 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

Background suppression sensor in corrosion-resistant metal housing, 350 mm adjustable detection range, red light, 2 push-pull outputs, fixed cable



Function

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 photoelectric 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.

Technical Data



Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Technical Data

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
Ripple		max. 10 %
No-load supply current	I_0	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	U_d	≤ 2.5 V DC
Switching frequency	f	1000 Hz
Response time		0.5 ms

Conformity

Product standard		EN 60947-5-2
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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)
CCC approval		CCC approval / marking not required for products rated ≤ 36 V

Ambient conditions

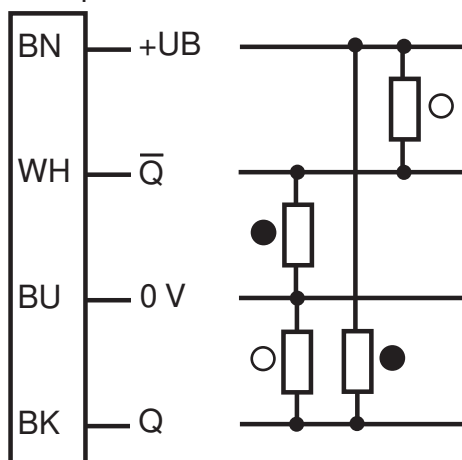
Ambient temperature		-40 ... 60 °C (-40 ... 140 °F)
Storage temperature		-40 ... 75 °C (-40 ... 167 °F)

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
Mass		100 g

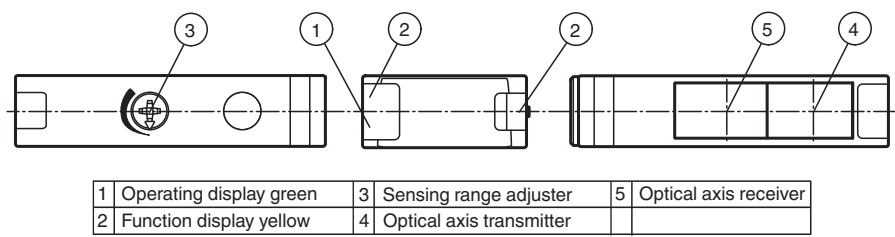
Connection Assignment

Option:

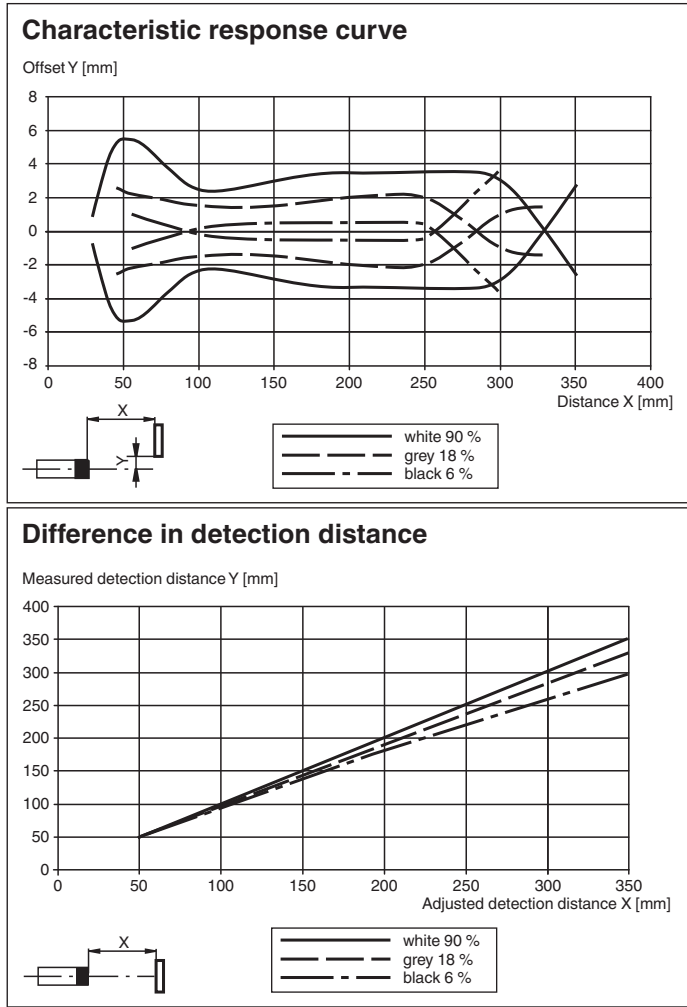


○ = Light on
● = Dark on

Assembly



Characteristic Curve



Accessories

	OMH-40	Mounting bracket
	OMH-09	Mounting bracket for Sensors series MLV41 for M12 rod mounting