Thru-beam sensor



VISC� CE

Model Number

M41/MV41/25/76a/115/136

Thru-beam sensor with 2 m fixed cable

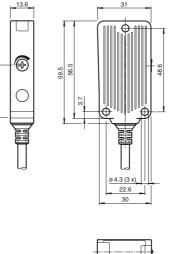
Features

- Rugged series in corrosion-resistant • metal housing
- Long sensor range with high power ٠ mode
- Resistant against noise: reliable ope-• ration under all conditions
- Clear and functional display concept ٠ for the operating modes
- Aluminum housing with high quality **Delta-Seal coated**
- Scratch-resistant and solvent resistant glass lens

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.

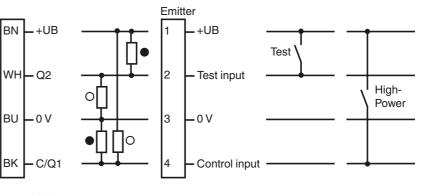
Dimensions





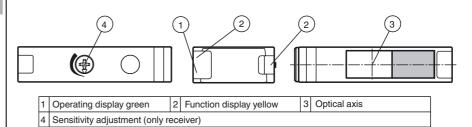
Electrical connection

30.5



O = Light on = Dark on

Indicators/operating means



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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Technical data		
System components		
Emitter		M41/76a/115
Receiver		MV41/25/115/136
General specifications		0
Effective detection range		0 16 m
Threshold detection range		normal mode: 25 m High power mode: 35 m (Control input at UB+)
Light source		normal mode: LED High power mode: LED+IRED
Light type		normal mode: modulated visible red light High power mode: Red and infrared, modulated light
Diameter of the light spot		approx. 500 mm at detection range 16 m
Angle of divergence		approx. 1.5 °
Optical face		frontal
Ambient light limit		50000 Lux
Functional safety related param	eters	
MTTF _d		844 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operating display		LED green: power on
Function display		Receiver: LED yellow, lights up when light beam is free, flashes when falling short of the stability control ; OFF when light beam is interrupted
Controls		sensitivity adjustment (receiver)
Electrical specifications		
Operating voltage	UB	10 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I ₀	max. 30 mA
Input		
Test input		emitter deactivation at +U _B (emitter)
Control input		High power mode activation with +UB (emitter)
Dutput		
Switching type		light on
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	Ud	≤ 2.5 V DC
Switching frequency	f	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		
Protection degree		IP67
Connection		2 m fixed cable
Material		
Housing		aluminum, Delta-Seal coated
Optical face		glass pane
Mass		100 g (device)
Compliance with standards and ves	directi	
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007
Standard conformity		
Product standard		EN 60947-5-2:2007
		IEC 60947-5-2:2007
Standards		UL 508
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure

Accessories

ОМН-09

Mounting bracket for Sensors series MLV41 for M12 rod mounting

OMH-40

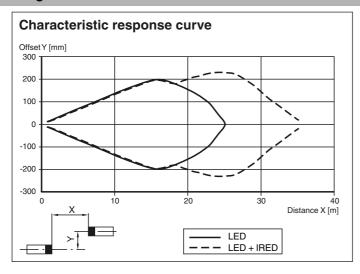
Mounting bracket

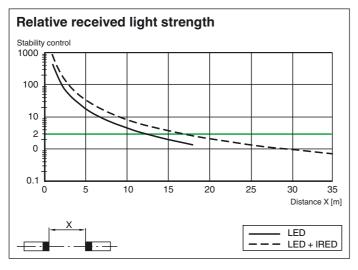
Other suitable accessories can be found at www.pepperl-fuchs.com

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Curves/Diagrams





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