



Retroreflective sensor MLV41-6/25/82a/95/103



- 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

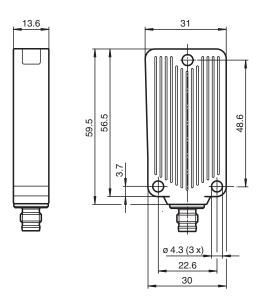
Robust retroreflective sensor, compact housing design, 9.5 m detection range, red light, light on, PNP output, weak signal output, M8 plug

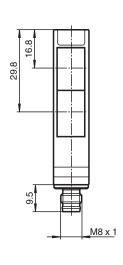


Function

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 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

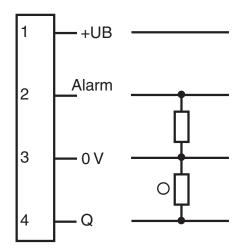




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General specifications	
Effective detection range	0 9.5 m
Reflector distance	Foil reflector 0.05 3 m Retro-reflector 0.01 9.5 m
Threshold detection range	12 m
Reference target	OFR-22800/76, H85-2 reflector
Light source	LED
Light type	modulated visible red light, 625 nm
Polarization filter	no
Angle deviation	max. ± 1.5 °
Diameter of the light spot	approx. 300 mm at detection range 8.5 m
Opening angle	1.5 °
Optical face	frontal
Ambient light limit	20000 Lux
Functional safety related parameters	
MTTF _d	940 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
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	LED yellow, lights up when light beam is free, flashes when falling short of the operating reserve

Connection Assignment



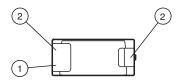
Connection Assignment

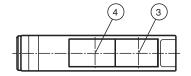


Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

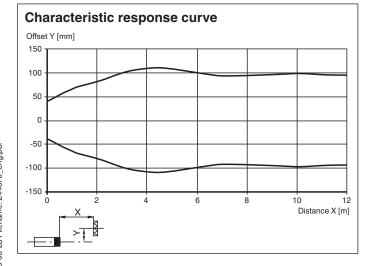
Assembly

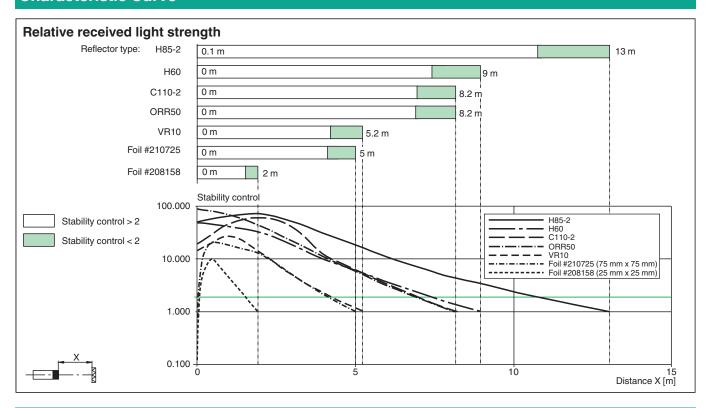




		3	Optical axis transmitter
2	Function display yellow	4	Optical axis receiver

Characteristic Curve





Accessories

6	OMH-09	Mounting bracket for Sensors series MLV41 for M12 rod mounting
	OMH-40	Mounting bracket
6/	V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
6/	V1-W-2M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey
	REF-H85-2	Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes
	REF-H50	Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap
	REF-VR10	Reflector, rectangular 60 mm x 19 mm, mounting holes
	ORR50G	Reflector, rectangular 50.9 mm x 60.9 mm, mounting holes, fixing strap and polarization filter
	OFR-100/100	Reflective tape 100 mm x 100 mm