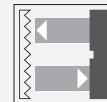




Retroreflective sensor

ML17-54/73/136

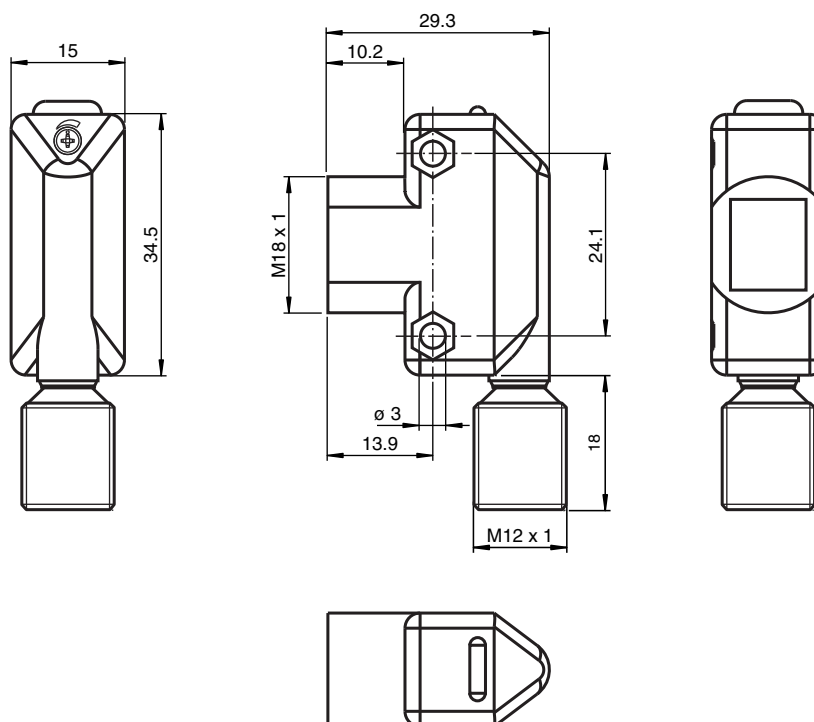


- Compact series in universal housing for standard applications
- Miniature design
- Front mounting with M18-threads or side mounting holes
- 360° high visibility LEDs
- Time-saving mounting with quick clamp system
- Version with polarized filters detect shiny objects
- 4-in-1 output (push-pull)

Retroreflective sensor with polarization filter



Dimensions



Technical Data

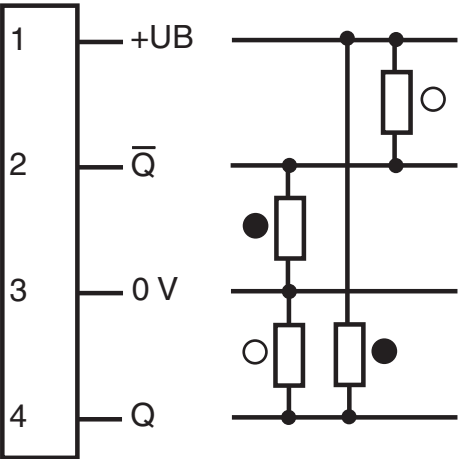
General specifications

Effective detection range	0 ... 3.5 m
Reflector distance	50 ... 3500 mm
Threshold detection range	5 m
Reference target	FE-RR1 reflector

Technical Data

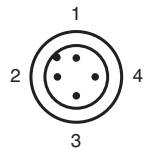
Light source	LED	
Light type		modulated visible red light , 626 nm
Polarization filter		yes
Ambient light limit		≤ 10000 Lux
Indicators/operating means		
Operation indicator		LED green
Function indicator		LED yellow, lights up with receiver lit
Control elements		sensitivity adjustment
Electrical specifications		
Operating voltage	U _B	10 ... 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I ₀	< 25 mA
Operating current	I _B	100 mA max per output
Time delay before availability	t _v	≤ 200 ms
Output		
Switching type		light/dark on
Signal output		2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected, overvoltage protected
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	U _d	≤ 2 V DC
Switching frequency	f	500 Hz
Response time		≤ 1 ms
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
EAC conformity		TR CU 020/2011
UL approval		cULus
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-20 ... 55 °C (-4 ... 131 °F)
Storage temperature		-20 ... 70 °C (-4 ... 158 °F)
Mechanical specifications		
Housing width		15 mm
Housing height		34.5 mm
Degree of protection		IP67
Connection		4-pin, M12 x 1 connector
Material		
Housing		ABS
Optical face		Acrylic
Mass		approx. 8.5 g

Connection



O = Light on
● = Dark on

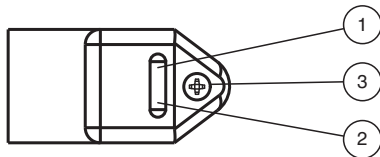
Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Assembly

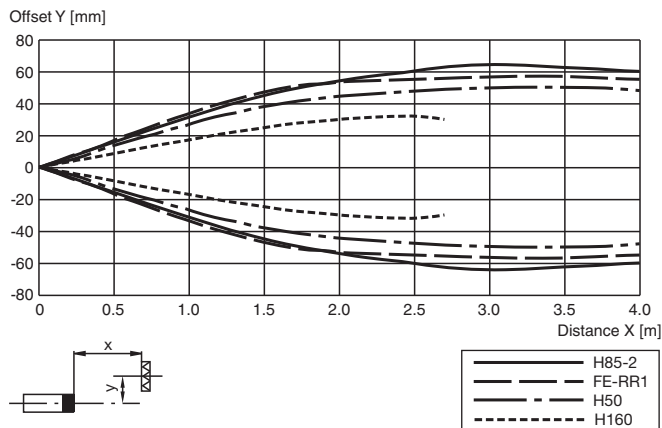


1	Signal display	yellow
2	Operating display	green
3	Sensitivity adjustment	

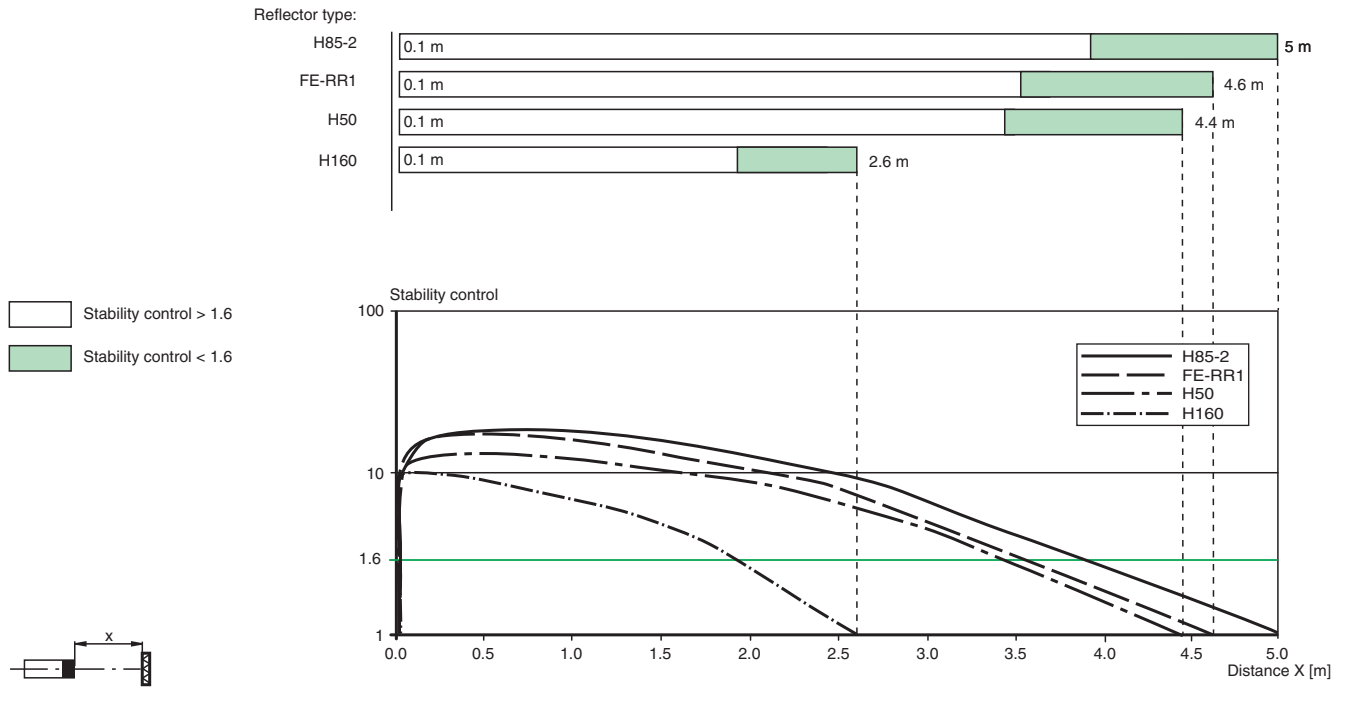
Release date: 2022-03-30 Date of issue: 2022-03-30 Filename: 905779_eng.pdf

Characteristic Curve

Characteristic response curve



Relative received light strength



Accessories

	OMH-ML17	Mounting bracket
	OMH-ML17-1	Mounting bracket
	V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
	V1-W-2M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey