



Retroreflective sensor ML17-54/115b/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



Function

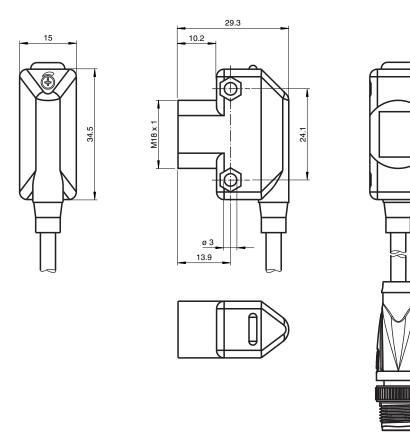
The ML17 sensor family offers diverse connection and installation options, which means that it can adapt to the most varied automation tasks. In addition to the usual fitting method using M4 screws, these sensors can also be installed by means of M18 threaded insert. All devices are equipped with a green Power On display and a yellow function display. These displays are arranged in such a way that they are clearly visible from different directions.

Application

- · Presence monitoring
- · Target sensors
- · Congestion monitoring
- · Track loading
- · Completeness checks



Dimensions

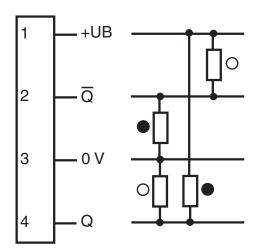


Technical Data

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

Technical Data					
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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		150 mm PVC cable with 4-pin, M12 connector			
Material					
Housing		ABS			
Optical face		Acrylic			
Mass		approx. 23 g			

Connection



O = Light on ■ = Dark on

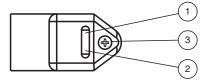
Connection Assignment



Wire colors in accordance with EN 60947-5-2

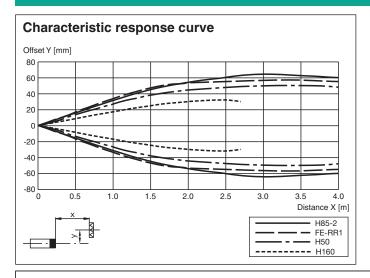
1 BN (brown)
2 WH (white)
3 BU (blue)
4 BK (black)

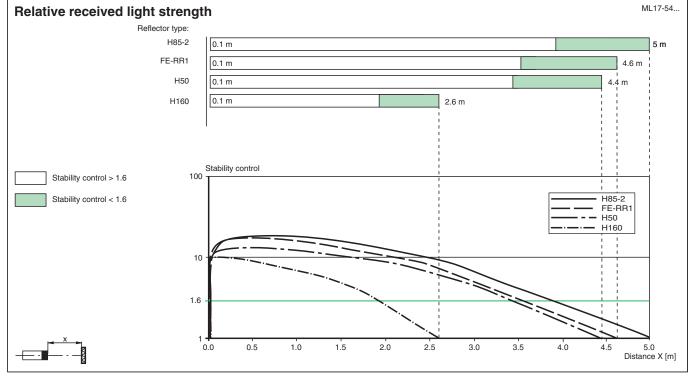
Assembly



1	Signal display	yellow			
2	Operating display	green			
3	Sensitivity adjustment				

Characteristic Curve







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