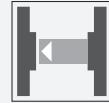




Thru-beam sensor receiver

MV17/73/136



- Receiver
- Compact, versatile housing
- 360° high visibility LEDs
- 4-in-1 output (push-pull)
- M12 male connector



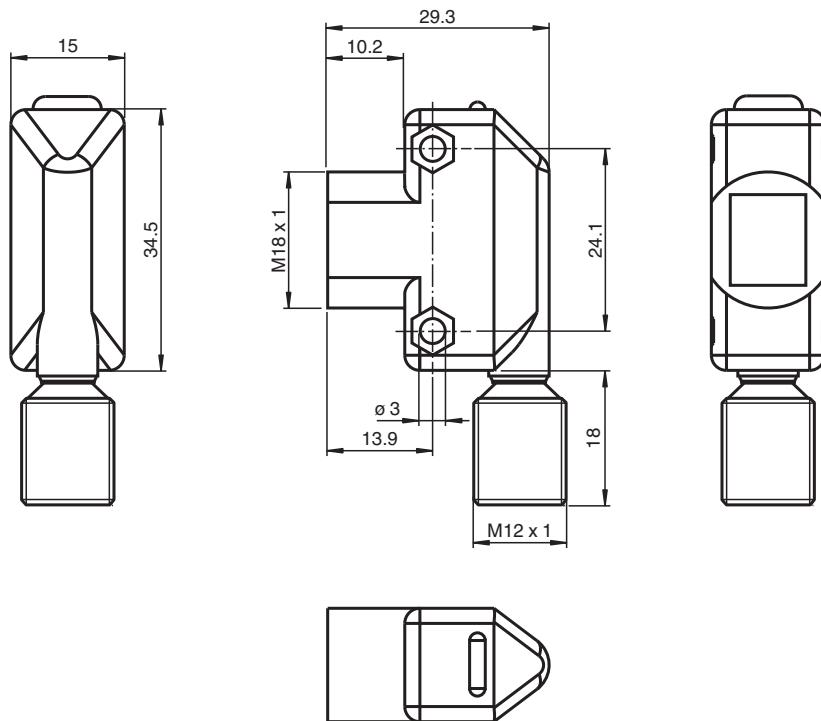
Function

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

Release date: 2022-08-03 Date of issue: 2022-08-03 Filename: 909380_eng.pdf

System components		
Emitter	MD17/73	
Receiver	MV17/73/136	
General specifications		
Effective detection range	0 ... 15 m	
Threshold detection range	20 m	
Reference target	emitter	
Light source	IRED	
Light type	Infrared LED	
Ambient light limit	≤ 10000 Lux	
Indicators/operating means		
Operation indicator	LED green	
Function indicator	LED yellow, lights up with receiver lit	
Electrical specifications		
Operating voltage	U_B	10 ... 30 V DC, class 2
Ripple	max. 10 %	
No-load supply current	I_B	< 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	

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

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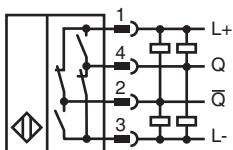
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 PEPPERL+FUCHS

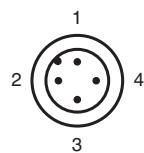
Technical Data

Switching current	max. 100 mA	
Voltage drop	U_d	≤ 2 V DC
Switching frequency	f	150 Hz
Response time		≤ 3 ms
Conformity		
Product standard		EN 60947-5-2 IEC 60947-5-2
Approvals and certificates		
CE conformity		CE
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		M12 x 1 connector , 4-pin
Material		
Housing		ABS
Optical face		Acrylic
Mass		approx. 9 g

Connection



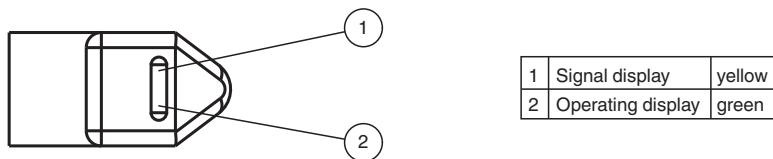
Connection Assignment



Wire colors in accordance with EN 60947-5-2

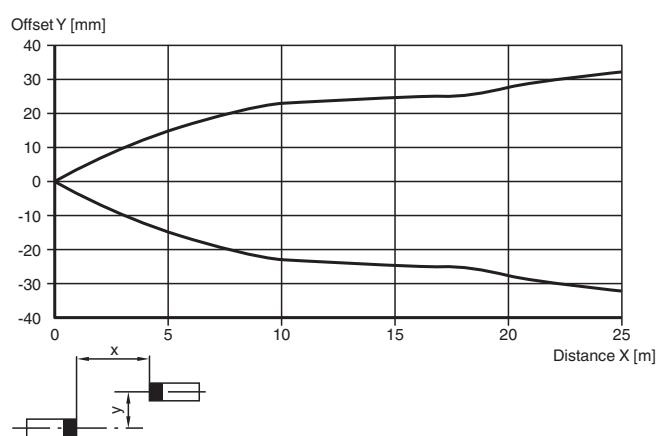
1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Indication

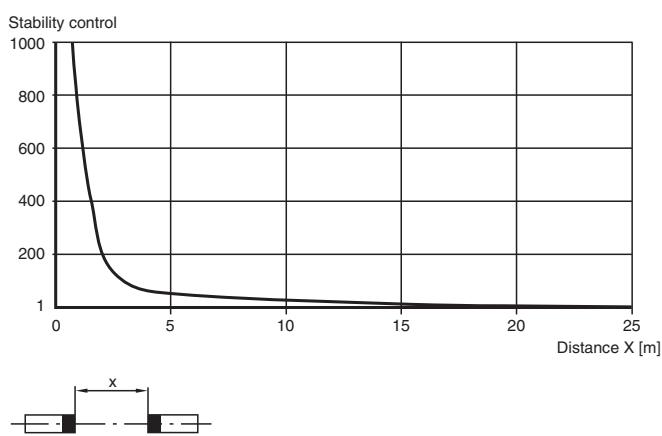


Characteristic Curve

Characteristic response curve



Relative received light strength



Matching System Components



MD17/73

Thru-beam sensor emitter

Accessories



OMH-ML17

Mounting bracket



OMH-ML17-1

Mounting bracket

Accessories

	V1-G-BK2M-PUR-U	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant
	V1-W-BK2M-PUR-U	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant
	V1-G-BK5M-PUR-U	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant
	V1-W-BK5M-PUR-U	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant

Additional Information

4-in-1 Output

The 4-in-1 output automatically detects the connected load, so the output either sources or sinks current depending on the load. The light on/dark on switch on the housing selects normally open or normally closed mode. A single sensor can operate as NPN normally open, NPN normally closed, PNP normally open, or PNP normally closed.

