



Thru-beam sensor emitter

MD17/143



- Emitter
- Compact, versatile housing
- 360° high visibility LEDs
- M8-plug connection

Thru-beam sensor transmitter, small design, infrared light, 20 m range, M8 plug



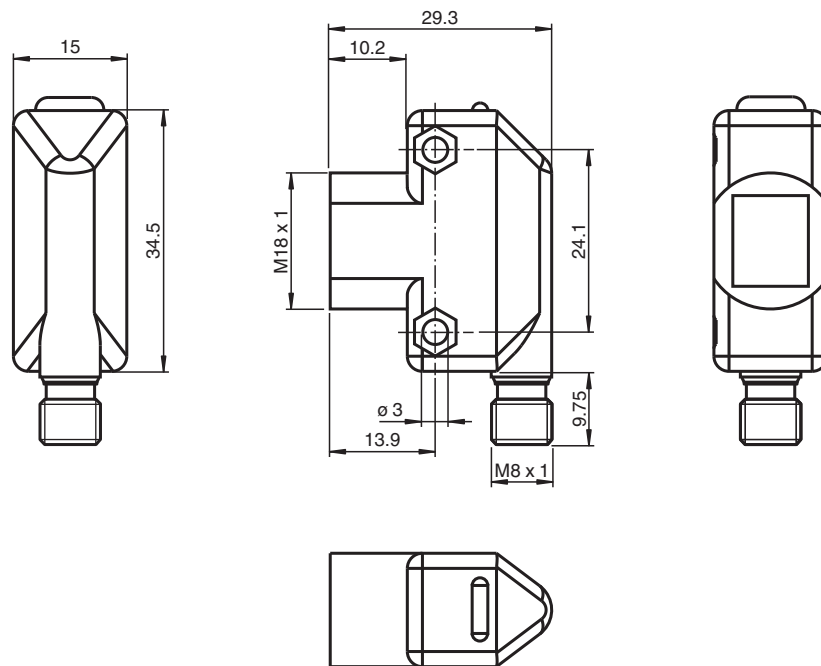
Function

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

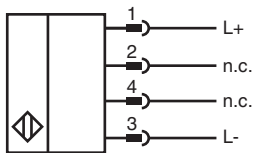
System components	
Emitter	MD17/143
Receiver	MV17/136/143
General specifications	
Effective detection range	0 ... 15 m
Threshold detection range	20 m
Reference target	receiver
Light source	IRED
Light type	Infrared LED
Ambient light limit	≤ 10000 Lux
Indicators/operating means	
Operation indicator	LED green
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
Time delay before availability	t_v ≤ 200 ms
Conformity	
Product standard	EN 60947-5-2 IEC 60947-5-2
Approvals and certificates	
CE conformity	CE
EAC conformity	TR CU 020/2011

Release date: 2022-08-03 Date of issue: 2022-08-03 Filename: 908709_eng.pdf

Technical Data

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	M8 x 1 connector, 4-pin
Material	
Housing	ABS
Optical face	Acrylic
Mass	approx. 9 g

Connection



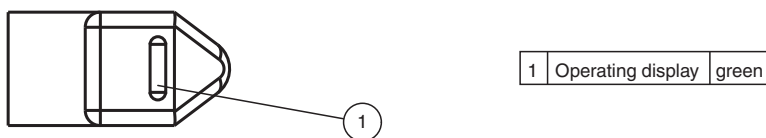
Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

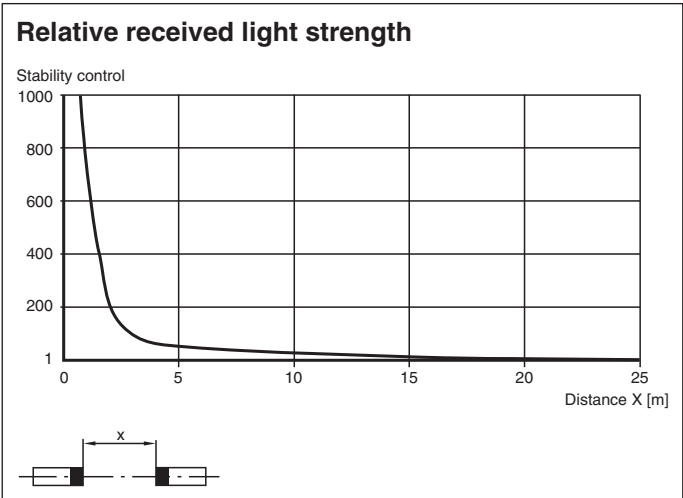
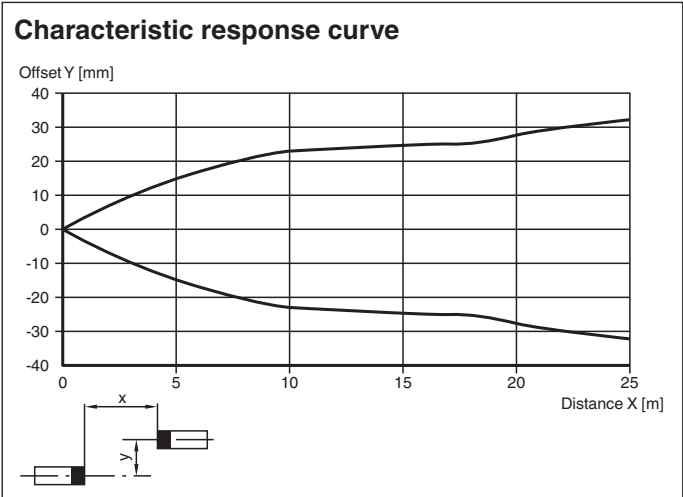
Indication




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






Characteristic Curve



Matching System Components

	MV17/136/143	Thru-beam sensor receiver, small design, infrared, light-on/dark-on switching, push-pull output, M8 plug
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Accessories

	OMH-ML17	Mounting bracket
	OMH-ML17-1	Mounting bracket
	V31-GM-BK2M-PUR-U	Female cordset single-ended M8 straight A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant
	V31-WM-BK2M-PUR-U	Female cordset single-ended M8 angled A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant
	V31-GM-BK5M-PUR-U	Female cordset single-ended M8 straight A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant
	V31-WM-BK5M-PUR-U	Female cordset single-ended M8 angled A-coded, 4-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant

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