



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



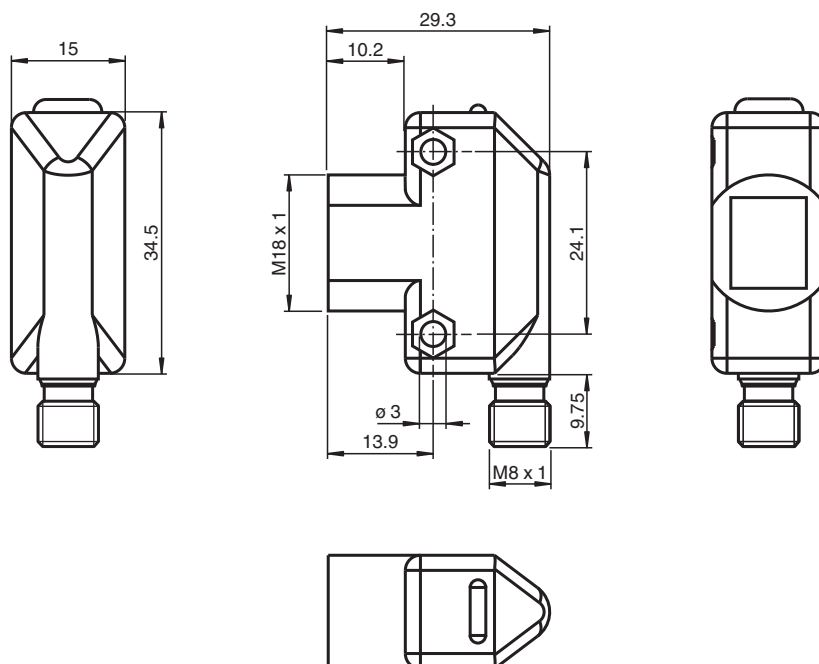
Function

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
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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
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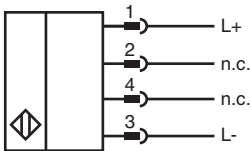
Approvals and certificates

CE conformity	CE
EAC conformity	TR CU 020/2011

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



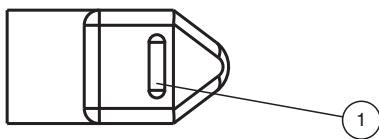
Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

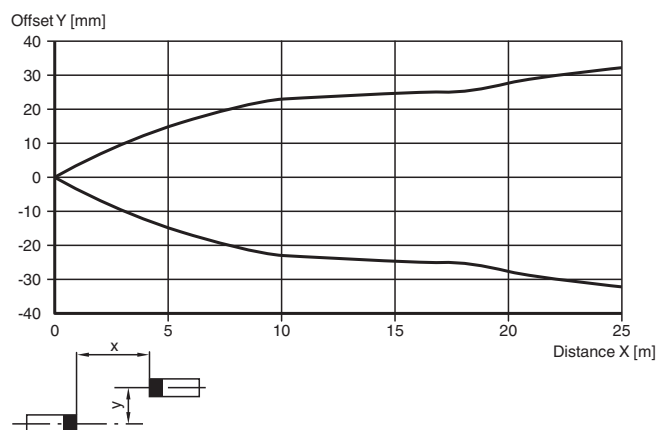
Indication



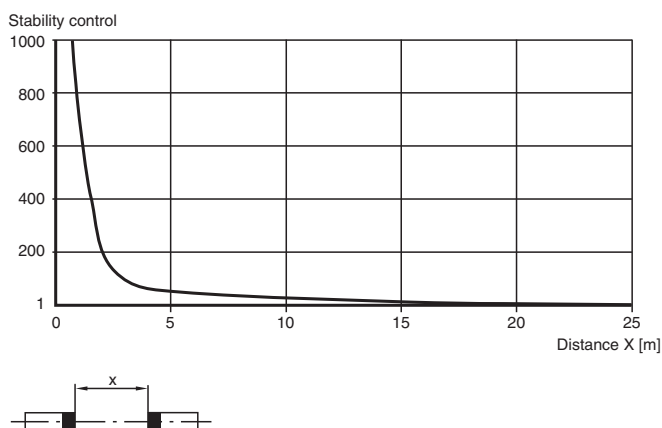
1	Operating display	green
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Characteristic Curve

Characteristic response curve



Relative received light strength



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