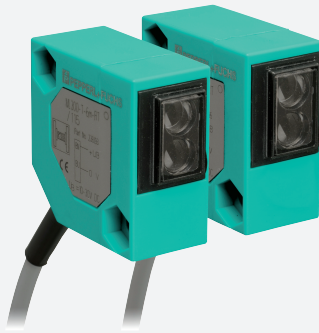
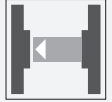




Thru-beam sensor ML300-P-6m-RT/25/103/115



- Miniature design
- Easy to use
- Visible red light
- 45° cable connector

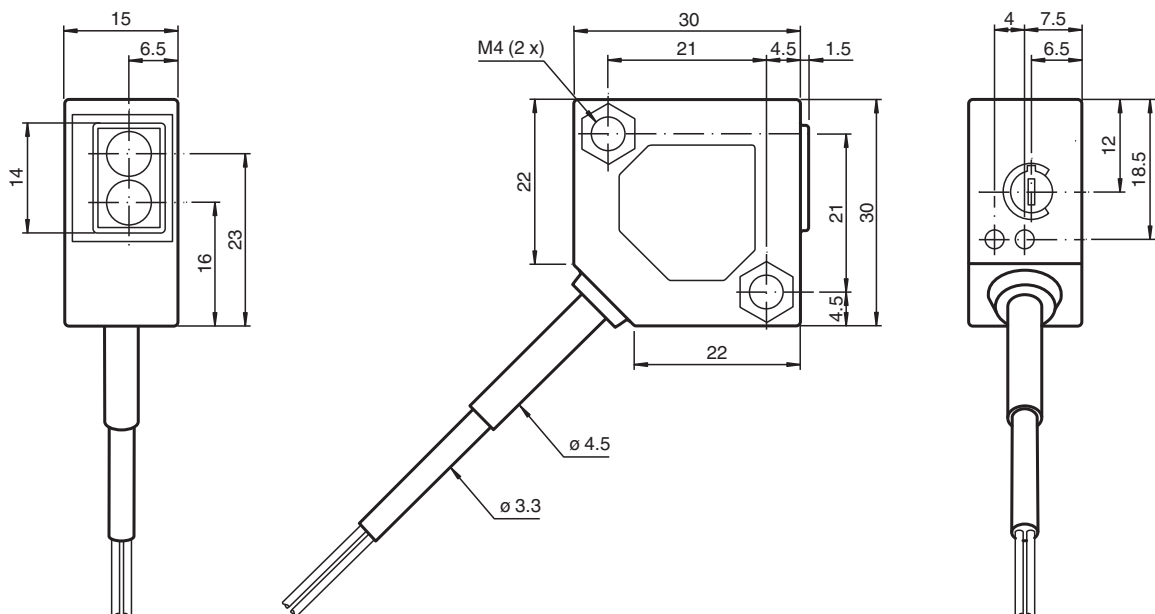
Thru-beam sensor



Function

The ML300 series has a robust miniature housing and all the standard functional principles. Of particular note are the sensors with analog output, which return a value proportional to the distance. The 45° plug/cable connection ensures flexible mounting. An LED indicates a weak signal, e.g. due to dirt.

Dimensions



Technical Data

System components

Emitter	ML300-T-6m-RT/115
Receiver	ML300-R-6m-RT/25/103/115

General specifications

Effective detection range	0 ... 6 m
Threshold detection range	8 m
Light source	LED
Light type	modulated visible red light 660 nm
Diameter of the light spot	approx. 500 mm at 6 m
Opening angle	approx. 5 °
Ambient light limit	
Continuous light	10000 Lux
Modulated light	5000 Lux

Indicators/operating means

Function indicator	LED yellow: lights up when output is active LED green: Sufficient stability control
Control elements	sensitivity adjustment

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
Ripple		max. 10 %
No-load supply current	I_0	Emitter: ≤ 20 mA Receiver: ≤ 20 mA

Output

Switching type	light-on	
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector
Switching voltage	max. 30 V DC	
Switching current		max. 0.1 A
Voltage drop	U _d	≤ 2 V DC
Switching frequency	f	1000 Hz
Response time	0.5 ms	

Conformity

Product standard	EN 60947-5-2
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Compliance with standards and directives

Standard conformity	
Shock and impact resistance	EN 60947-5-7 30 g, 11 ms, all axes
Vibration resistance	EN 60947-5-7, 10-55 Hz/1.5 mm amplitude, all axes

Approvals and certificates

UL approval	no
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

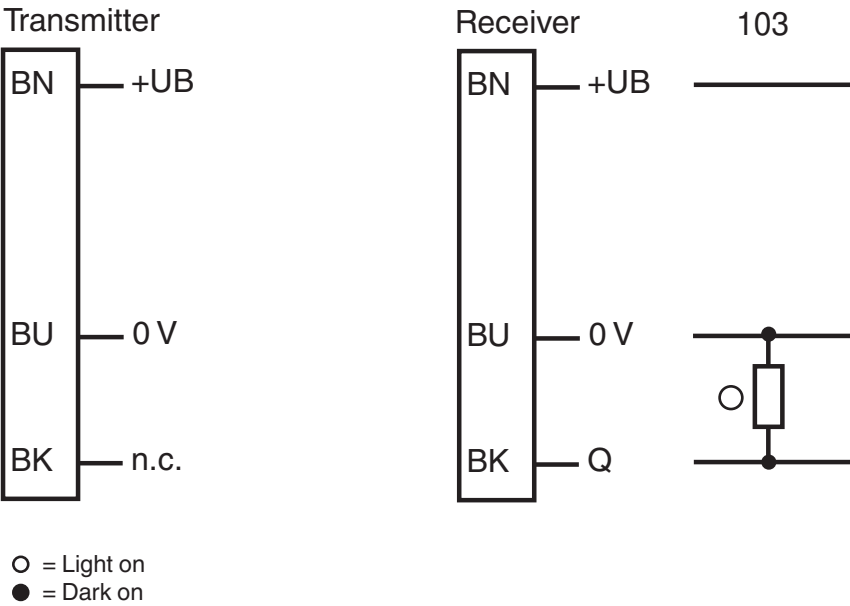
Ambient conditions

Ambient temperature	-25 ... 55 °C (-13 ... 131 °F)
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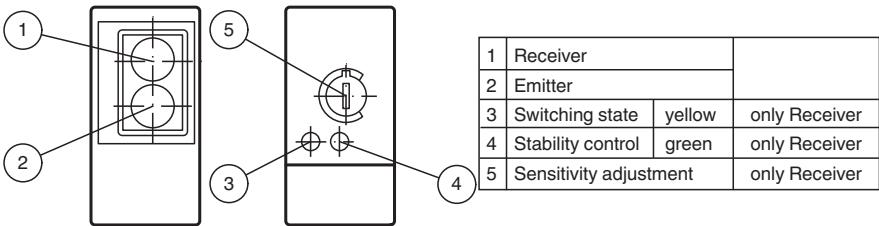
Mechanical specifications

Housing width	30 mm
Housing height	30 mm
Housing depth	15 mm
Degree of protection	IP65
Connection	2 m fixed cable
Material	
Housing	ABS
Optical face	plastic
Cable	PVC
Mass	150 g (emitter and receiver)

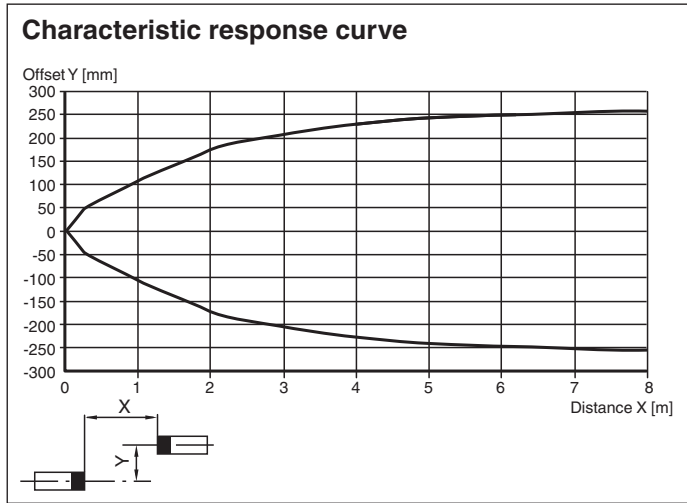
Connection Assignment



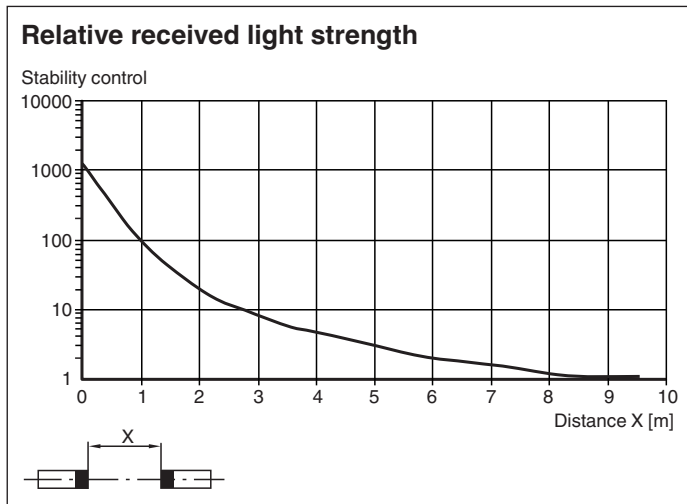
Assembly



Characteristic Curve



Characteristic Curve



Accessories

	OMH-ML300-01	Bracket for mounting ML300 series sensors
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