



Diffuse mode sensor ML300-8-600-RT/59/102/115



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

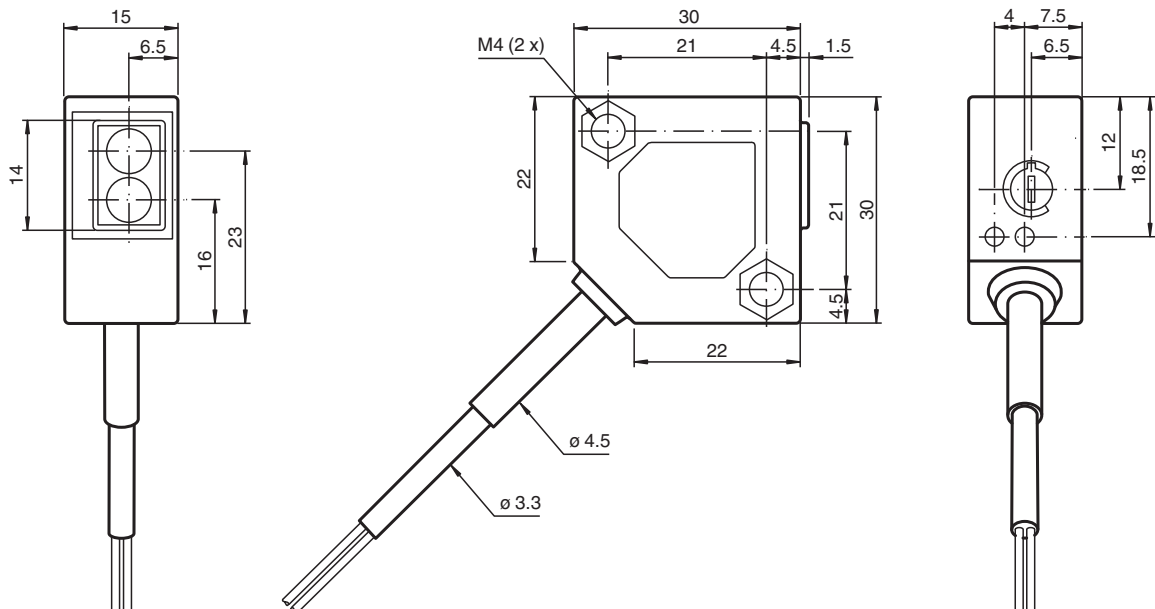
Diffuse mode sensor, miniature design, 600 mm adjustable detection range, red light, dark on, NPN output, fixed cable



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

General specifications

Detection range	0 ... 600 mm , adjustable
Adjustment range	150 ... 600 mm
Reference target	standard white 200 mm x 200 mm
Light source	LED
Light type	modulated visible red light , 660 nm
Diameter of the light spot	approx. 130 mm at a distance of 600 mm
Opening angle	approx. 13 °
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	Sensing range adjuster

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
Ripple		max. 10 %
No-load supply current	I_0	max. 30 mA

Output

Switching type	dark-on	
Signal output		1 NPN 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

EAC conformity	TR CU 020/2011
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

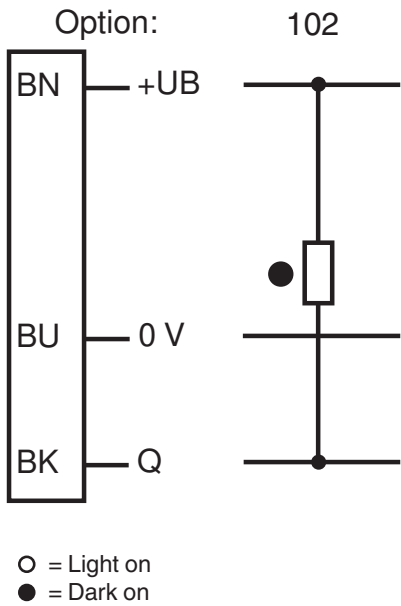
Ambient conditions

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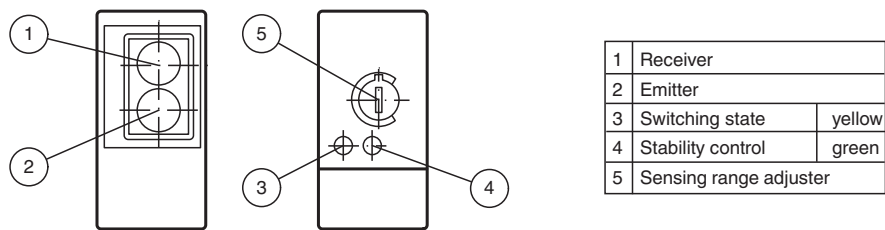
Mechanical specifications

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	75 g

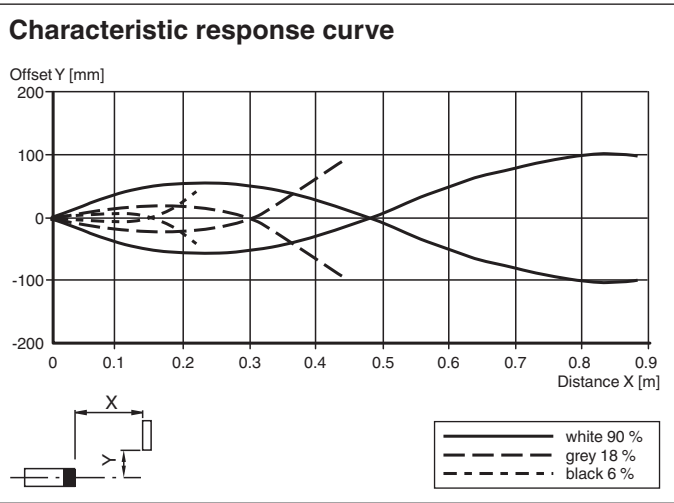
Connection Assignment



Assembly

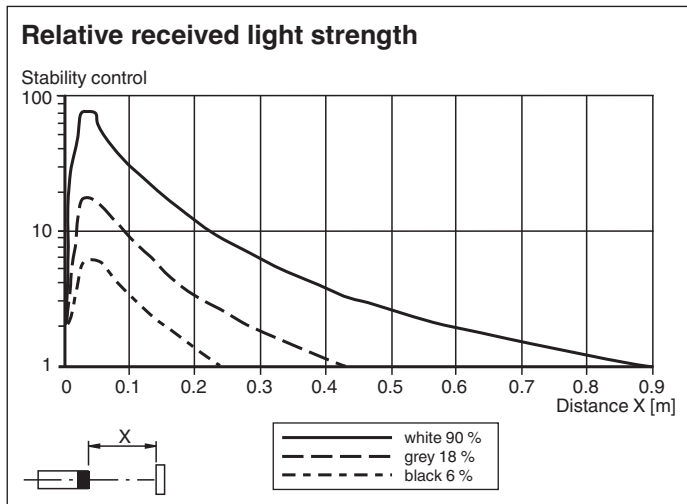


Characteristic Curve



Release date: 2022-08-03 Date of issue: 2022-08-03 Filename: 238181_eng.pdf

Characteristic Curve



Accessories

	OMH-ML300-01	Bracket for mounting ML300 series sensors
	OMH-ML300-02	Bracket for mounting ML300 series sensors on a 35 mm DIN rail