

Background suppression sensor ML6-8-H-120-RT/59/65a/95/136



- Precise background suppression
- Adjustable background suppression
- Small, sharp light spot
- Very small black-white difference
- Highly visible LEDs for Power-On, switching status, short-circuit, and undervoltage
- Metal-reinforced fastening holes
- Push-pull output

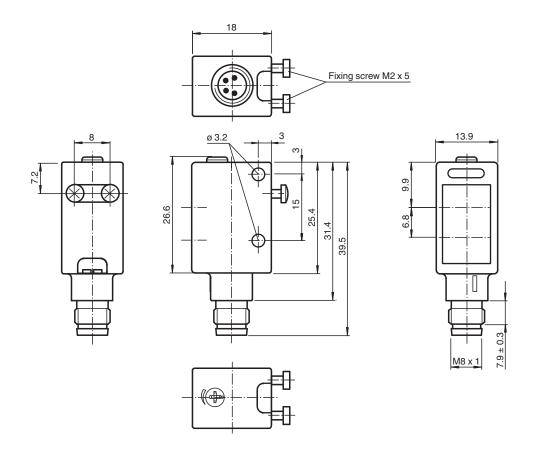
Triangulation sensor with background suppression for standard applications, miniature design, 120 mm adjustable detection range, light/dark on, red light, two push-pull outputs, M8 plug



Function

The ML6 series is characterized by a robust, powerful and standard design in a miniature housing. The housing offers IP67/IP69K degree of protection, a food-grade lens, highly visible LEDs and robust all-metal bushings for mounting. Adjustable and tamper-proof sensors with a double push-pull output are available. The sensors have a high ambient light limit. Reflections from the background are suppressed. The unusually small, sharp light spot and the quick response time offer maximum switching precision on object edges. Clearly visible red light sources facilitates alignment. A high-performance fixed focus background suppressor is a useful feature. The sensors are suitable for precise object detection and open up a wide range of application fields.

Dimensions



Technical Data

15 120 mm
10 30 mm
18 120 mm
30 120 mm
standard white, 100 mm x 100 mm
LED
modulated visible red light, 660 nm
<10 %
approx. 5 mm at detection range 120 mm
40000 Lux
5000 Lux
1940 a
20 a
0 %
LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)
LED yellow: lights when object is detected
Sensing range adjuster

 U_B

 I_0

10 ... 30 V DC , class 2

light/dark on, programmable

max. 10 % < 25 mA

Technical Data

No-load supply current

Operating voltage

Switching type

Ripple

Output

3

4

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0 V

Q1

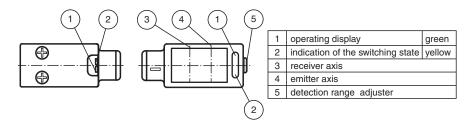
Connection Assignment



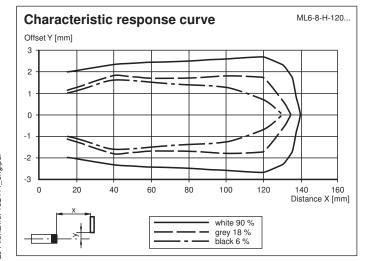
Wire colors in accordance with EN 60947-5-2

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

Assembly



Characteristic Curve



Accessories

	OMH-4.1	Mounting Clamp
8	OMH-ML6	Mounting bracket
	OMH-ML6-U	Mounting bracket
Late	OMH-ML6-Z	Mounting bracket
2	V31-GM-5M-PUR	Female cordset single-ended M8 straight A-coded, 4-pin, PUR cable grey
2	V31-WM-5M-PUR	Female cordset single-ended M8 angled A-coded, 4-pin, PUR cable grey