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Model Number

ML6-8-H-40-RT/DS/25/115/136

Background suppression sensor with 2 m fixed cable

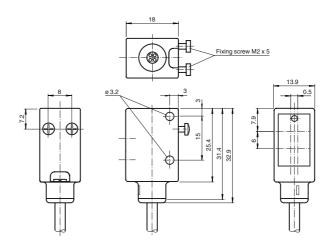
Features

- Dual sensor with two Light spots
- · Precise background suppression
- · Very small black-white difference
- Light spot signals are directly connected to both independent switching outputs
- · Short circuit and low voltage indicator
- · Metal-reinforced fastening holes
- Tamper-proof version with no adjustments

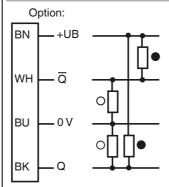
Product information

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

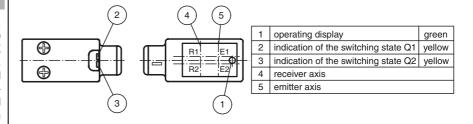


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



Detection range 10 40 mm Detection range max. 10 50 mm Background suppression starts from 50 mm Light source 2 LEDs Light type 660 nm visible red light Black/White difference (6 %/90 %) approx. 3 mm Diameter of the light spot 2 light spots: size 3.5 mm distance 9 mm at 40 mm Angle of divergence approx. 5 ° Ambient light limit Continuous light 40000 Lux Modulated light 5000 Lux Functional safety related parameters MTTF _d 1940 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means	
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indicators/operating means	
· -	indicator
Operation indicator LED green, statically lit Power on, Undervoltage Green LED, pulsing (approx. 0.8 Hz), short-circu	
flashing (approx. 4 Hz)	ant . LLD gro
Function indicator LEDs yellow: light up when object is detected	
Electrical specifications	
Operating voltage U _B 10 30 V DC	
Ripple 10 %	
No-load supply current I ₀ < 20 mA	
Output	
•	
Switching type light on +UB dark on: 0 V	
Signal output 2 push-pull (4 in 1) outputs, short-circuit protecte	d reverse
polarity protected	u, 1010100
Switching voltage max. 30 V DC	
Switching current max. 100 mA	
Voltage drop U _d ≤ 2.5 V DC	
Switching frequency f 500 Hz	
Response time 1 ms	
Conformity	
Product standard EN 60947-5-2	
Ambient conditions	
Ambient temperature -20 60 °C (-4 140 °F)	
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Mechanical specifications	
Housing width 13.9 mm	
Housing height 31.4 mm	
Housing depth 18 mm	
Degree of protection IP67 / IP69K	
Connection 2 m fixed cable	
Material	
Housing ABS	
Optical face PMMA	
Cable PUR	
Mass approx. 50 g	
Compliance with standards and directives	
Standard conformity	
Shock and impact resistance IEC / EN 60068. half-sine, 40 g in each X, Y and	
Vibration resistance IEC / EN 60068-2-6. Sinus. 10 -150 Hz, 5 g in eadirections	ch X, Y and
Approvate and partitiontes	
Approvals and certificates	
Approvals and certificates UL approval cULus Listed CCC approval CCC approval / marking not required for produc	to until 100

Accessories

OMH-4.1

Mounting Clamp

OMH-ML6

Mounting bracket

OMH-ML6-U

Mounting bracket

OMH-ML6-Z

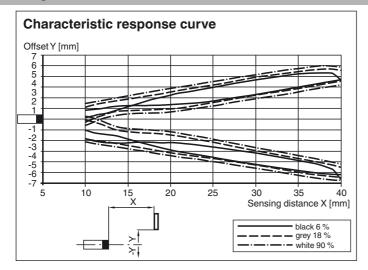
Mounting bracket

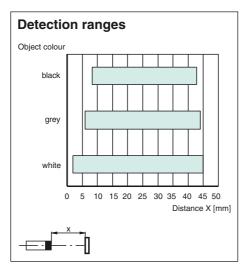
Other suitable accessories can be found at www.pepperl-fuchs.com

FPEPPERL+FUCHS

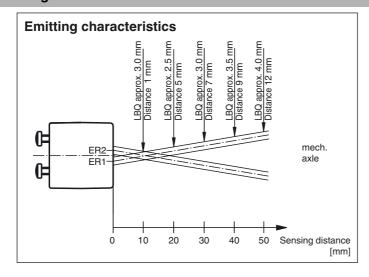
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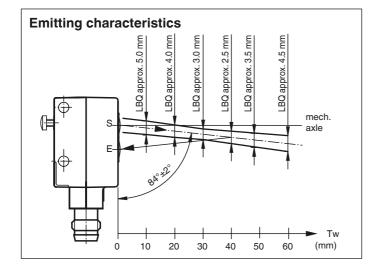
Curves/Diagrams





Curves/Diagrams





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