

c(UL **VISC**� CE US

Model Number

ML6-8-H-80-RT/59/115/136

Background suppression sensor with 2 m fixed cable

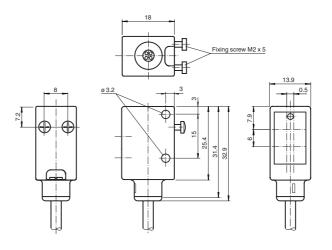
Features

- Precise background suppression •
- Very small black-white difference •
- Small, sharp light spot ٠
- Highly visible LEDs for Power-On, • switching status, short-circuit, and undervoltage
- Metal-reinforced fastening holes
- Tamper-proof version with no adjust-• ments
- Push-pull output

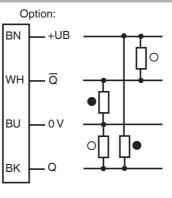
Product information

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

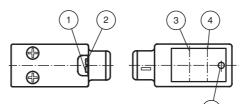


Electrical connection





Indicators/operating means



1	operating display	green
2	indication of the switching state	yellow
3	receiver axis	
4	emitter axis	

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

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accessories can be found at

Technical data			Accessories
General specifications			
Detection range		10 80 mm	OMH-4.1
Detection range max.		10 100 mm	Mounting Clamp
Background suppression		starts from 100 mm	OMH-ML6
Light source		LED	
Light type		modulated visible red light , 660 nm	Mounting bracket
Black/White difference (6 %/90 %	6)	approx. 15 mm	OMH-ML6-U
Diameter of the light spot	•)	approx. 6 mm at 80 mm	Mounting bracket
Angle of divergence		approx. 5 °	g and a second
Ambient light limit			OMH-ML6-Z
Continuous light		40000 Lux	Mounting bracket
Modulated light		5000 Lux	
Functional safety related param	eters		Other suitable accessori
MTTF _d		1940 a	www.pepperl-fuchs.com
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0%	
Indicators/operating means			
Operation indicator		LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)	
Function indicator		LED yellow: lights when object is detected	
Electrical specifications			
Operating voltage	UB	10 30 V DC	
Ripple	OB	10 %	
No-load supply current	I ₀	< 25 mA	
Output	•0		
Switching type		light/dark on, programmable	
Signal output		2 push-pull (4 in 1) outputs, complementary, short-circuit proof, reverse polarity protected	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA	
Voltage drop	Ud	≤ 2.5 V DC	
Switching frequency	f	1000 Hz	
Response time		0.5 ms	
Ambient conditions			
Ambient temperature		-20 60 °C (-4 140 °F)	
Storage temperature		-20 75 °C (-4 167 °F)	
Mechanical specifications			
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 ves	direct		
Standard conformity			
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	
Shock and impact resistance		IEC / EN 60068. half-sine, 40 g in each X, Y and Z directions	
Vibration resistance		IEC / EN 60068-2-6. Sinus. 10 -150 Hz, 5 g in each X, Y and Z directions $% \left(1,1,2,2,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,$	
Approvals and certificates			
UL approval		cULus Listed	
CCC approval		CCC approval / marking not required for products rated \leq 36 V	

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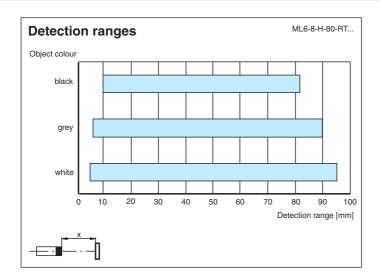
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