Dimensions





c(VL **VISC**� CE US

Model Number

ML6-8-H-20-RT/59/115a/136

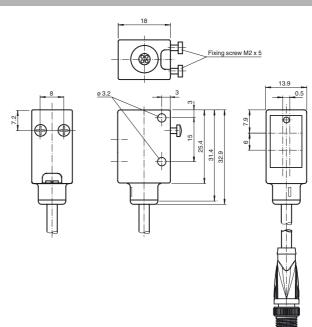
Background suppression sensor with 200 mm fixed cable and 4-pin, M8 x 1 connector

Features

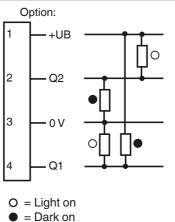
- ٠ Precise background suppression
- Very small black-white difference
- Small, sharp light spot
- Highly visible LEDs for Power-On, switching status, short-circuit, and undervoltage
- Metal-reinforced fastening holes
- Tamper-proof version with no adjustments
- Push-pull output

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.



Electrical connection





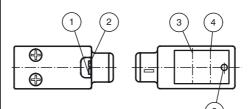




Wire colors in accordance with EN 60947-5-2 (brown) (white) (blue) (black) BN BN BU BK

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Indicators/operating means



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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

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Technical data			Accessories
General specifications			OMH-4.1
Detection range		7 20 mm	Mounting Clamp
Detection range max.		5 25 mm	
Background suppression		starts from 25 mm	OMH-ML6
Light source		LED	Mounting bracket
Light type		modulated visible red light , 660 nm	
Black/White difference (6 %/90 %	%)	approx. 1 mm	OMH-ML6-U
Diameter of the light spot		approx. 1.5 mm at 20 mm	Mounting bracket
Angle of divergence		approx. 5 °	OMH-ML6-Z
Ambient light limit			
Continuous light		40000 Lux	Mounting bracket
Modulated light		5000 Lux	Other suitable accessories can be found a
Functional safety related parar	neters		www.pepperl-fuchs.com
MTTF _d		1940 a	Lable of the
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		
		light/dark on programmable	
Switching type		light/dark on, programmable	
Signal output		2 push-pull (4 in 1) outputs, complementary, short-circuit proof, reverse polarity protected max. 30 V DC	
Switching voltage			
Switching current		max. 100 mA	
Voltage drop	U _d f	≤ 2.5 V DC	
Switching frequency	1	1000 Hz 0.5 ms	
Response time		0.5 ms	
Conformity			
Product standard		EN 60947-5-2	
Ambient conditions			
Ambient temperature		-20 60 °C (-4 140 °F)	
Storage temperature		-20 75 °C (-4 167 °F)	
Mechanical specifications			
Housing width		13.9 mm	
Housing height		31.4 mm	
Housing depth		18 mm	
Degree of protection		IP67 / IP69K	
Connection		200 mm fixed cable with 4-pin, M8x1 connector	
Material			
Housing		ABS	
Optical face		РММА	
Cable		PUR	
Mass		approx. 50 g	
Compliance with standards an directives Standard conformity	d		
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	
Approvals and certificates			
UL approval		cULus Listed	
CCC approval		CCC approval / marking not required for products rated \leq 36 V	

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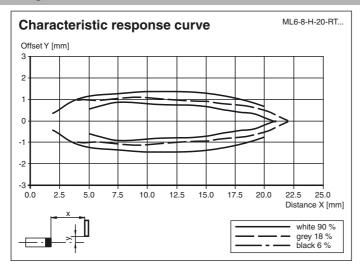
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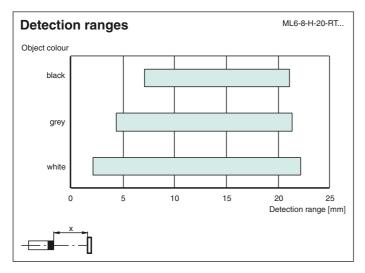
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Curves/Diagrams





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