Dimensions



VISC� CE c US

Model Number

ML6-8-H-150-RT/40b/65a/95/110

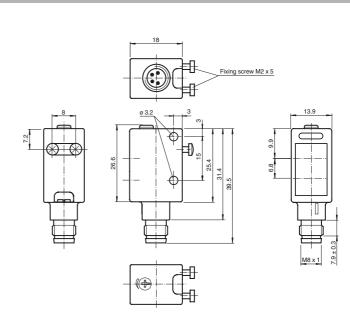
Background suppression sensor with 4-pin, M8 x 1 connector

Features

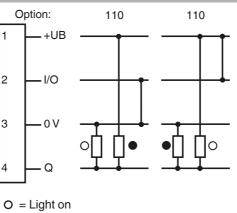
- Precise background suppression
- Adjustable background suppression •
- Small, sharp light spot ٠
- Very small black-white difference
- Highly visible LEDs for Power-On, switching status, short-circuit, and undervoltage
- Metal-reinforced fastening holes .
- Push-pull output

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

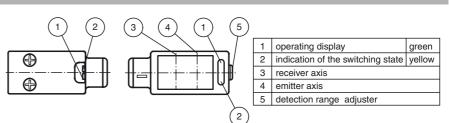


= Dark on

Pinout



Indicators/operating means



Pepperl+Fuchs Group

eng.xml

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Technical data			Accessories	
General specifications			OMH-4.1	
Detection range		15 150 mm	Mounting Clamp	
Detection range min.		10 30 mm	OMH-ML6	
Detection range max.		18 150 mm		
Adjustment range		30 150 mm	Mounting bracket	
Reference target		standard white, 100 mm x 100 mm		
Light source		LED	OMH-ML6-U	
Light type		modulated visible red light, 660 nm	Mounting bracket	
Black/White difference (6 %/90 %)		< 15 %		
Diameter of the light spot		approx. 6 mm at detection range 150 mm	OMH-ML6-Z	
Ambient light limit			Mounting bracket	
Continuous light		40000 Lux	V31-GM-5M-PUR	
Modulated light		5000 Lux		
Functional safety related parameters			Female cordset single-ended, M8, 4-pin,	
MTTF _d		1940 a	PUR cable	
Mission Time (T _M)		20 a	V31-WM-5M-PUR	
Diagnostic Coverage (DC)		0 %	Female cordset single-ended, M8, 4-pin,	
Indicators/operating means			PUR cable	
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)	Other suitable accessories can be found at www.pepperl-fuchs.com	
Function indicator		LED yellow: lights when object is detected		
Control elements		Sensing range adjuster		
Electrical specifications				
Operating voltage	UB	10 30 V DC , class 2		
Ripple		max. 10 %		
No-load supply current	I ₀	< 25 mA		
Output				
Switching type		light/dark on electrically switchable		
Signal output		Push-pull output, short-circuit protected, reverse polarity protected		
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA		
Voltage drop	U _d	≤ 2.5 V DC		
Switching frequency	f	1000 Hz		
Response time		500 µs		
Conformity				
Product standard		EN 60947-5-2		
Ambient conditions				
Ambient temperature		-20 60 °C (-4 140 °F)		
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications				
Housing width		13.9 mm		
Housing height		31.4 mm		
Housing depth		18 mm		
Degree of protection		IP67 / IP69K		
Connection		M8 x 1 connector, 4-pin		
Material				
Housing		ABS		
Optical face		PMMA		
Mass		approx. 10 g		
Compliance with standards a directives	and			
Standard conformity				
Shock and impact resistanc	e	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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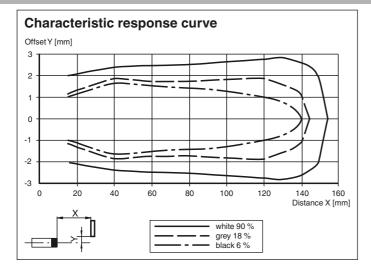
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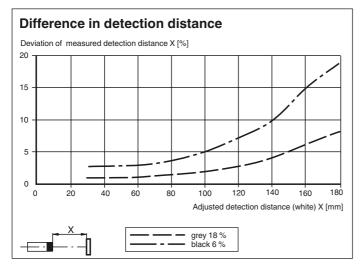
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Curves/Diagrams





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