



**Technical data****General specifications**

Detection range	15 ... 120 mm
Detection range min.	10 ... 30 mm
Detection range max.	18 ... 120 mm
Adjustment range	30 ... 120 mm
Reference target	standard white, 100 mm x 100 mm
Light source	LED
Light type	modulated visible red light , 660 nm
Black/White difference (6%/90%)	< 10 %
Diameter of the light spot	approx. 5 mm at detection range 120 mm
Ambient light limit	
Continuous light	40000 Lux
Modulated light	5000 Lux

**Functional safety related parameters**

MTTF <sub>d</sub>	1940 a
Mission Time (T <sub>M</sub> )	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
Control elements	Detection range adjuster

**Electrical specifications**

Operating voltage	U <sub>B</sub>	10 ... 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I <sub>0</sub>	< 25 mA

**Output**

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	U <sub>d</sub>	≤ 2.5 V DC
Switching frequency	f	1000 Hz
Response time		500 μs

**Ambient conditions**

Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-40 ... 75 °C (-40 ... 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 directives**

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

**Approvals and certificates**

UL approval	cULus Listed
CCC approval	CCC approval / marking not required for products rated ≤36 V

**Accessories**

**OMH-4.1**  
Mounting Clamp

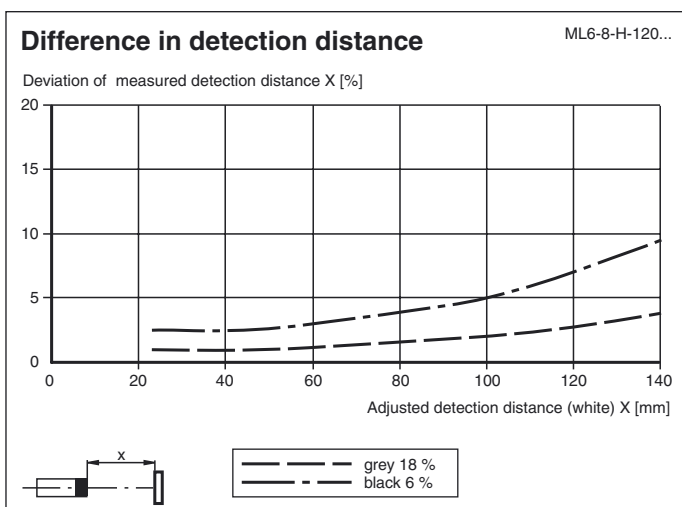
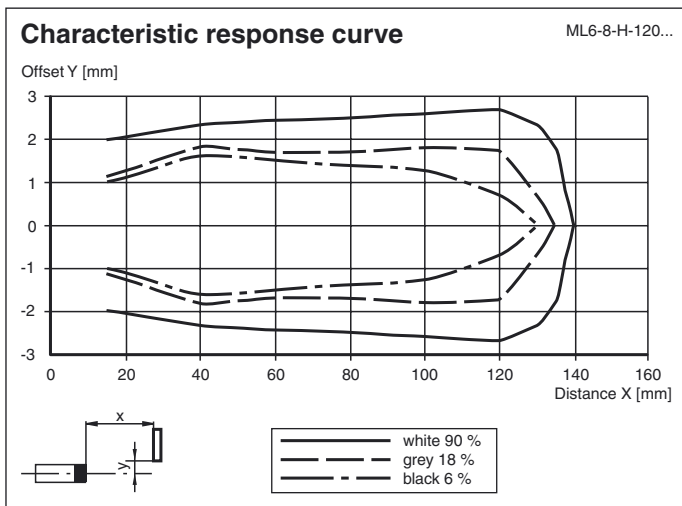
**OMH-ML6**  
Mounting bracket

**OMH-ML6-U**  
Mounting bracket

**OMH-ML6-Z**  
Mounting bracket

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

Curves/Diagrams



Release date: 2014-05-12 16:14 Date of issue: 2014-05-23 182446\_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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