



**Model Number**

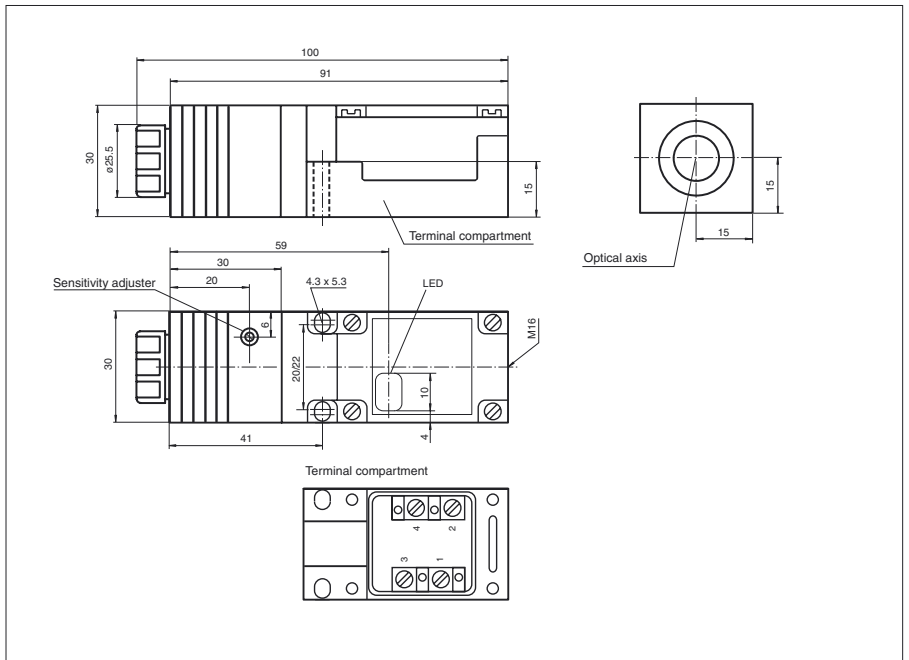
**OJ500-M1K-E23**

Fiber optic sensor  
with terminal compartment

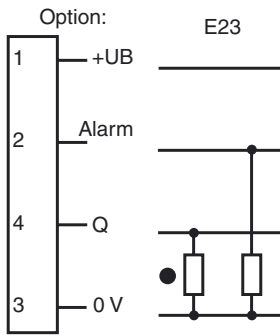
**Features**

- Light/dark ON parameterisable
- Adjustable sensor head

**Dimensions**

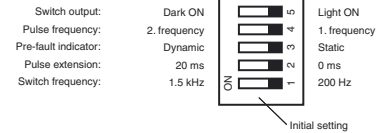


**Electrical connection**



- = Light on
- = Dark on

**Selector switches in terminal compartment**



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**Technical data**

**General specifications**

Sensor range	up to 100 mm (LMR 18-3,2-1,0-K4)
Detection range	up to 600 mm (LME 18-2,3-0,5-K3)
Light source	LED
Light type	modulated infrared light
Approvals	CE
Ambient light limit	40000 Lux
Temperature influence	≤ 0.5 mm/K

**Indicators/operating means**

Operating display	LED green
Function display	LED yellow: switching state LED red: stability control (flashing)
Controls	programming switch: bright/dark changeover switch selection of the operating frequency selection of the switching frequency pulse extension stability control dynamic/static
Controls	Detection range adjuster

**Electrical specifications**

Operating voltage	$U_B$	10 ... 30 V DC
Ripple		10 %
No-load supply current	$I_0$	≤ 35 mA

**Output**

Pre-fault indication output	1 PNP, active when falling short of the stability control	
Switching type	light/dark on	
Signal output	1 PNP output, short-circuit protected, reverse polarity protected, open collector	
Switching voltage	max. 30 V DC	
Switching current	≤ 200 mA	
Switching frequency	$f$	≤ 1.5 kHz / 200 Hz switchable
Response time		≤ 0.3 ms at 1.5 kHz ≤ 2.5 ms at 200 Hz
Timer function		pulse extension 20 ms, switchable

**Standard conformity**

Standards	EN 60947-5-2
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**Ambient conditions**

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 80 °C (-40 ... 176 °F)

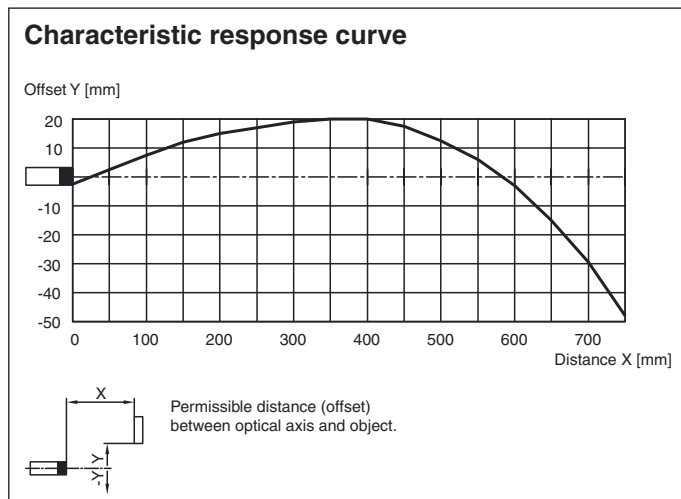
**Mechanical specifications**

Protection degree	IP67
Connection	M16 terminal compartment, core cross-section ≤ 2.5 mm <sup>2</sup>
Material	
Housing	PBT
Optical face	Scratch resistant mineral glass lens
Mass	100 g

**Approvals and certificates**

CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.
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**Curves/Diagrams**



**Accessories**

**LMR 18-3,2-0,5-K1**

Glass fiber optic - diffuse with metal covering

**LCR 18-3,2-0,5-K5**

Glass fiber optic - diffuse with PVC covering

**LMR 18-3,2-0,5-K4**

Glass fiber optic - diffuse with metal covering

**LME 18-2,3-0,5-K1**

Glass fiber optic - thru-beam with metal covering

**LME 18-2,3-0,5-K3**

Glass fiber optic - thru-beam with metal covering

**LME 18-2,3-0,5-K5**

Glass fiber optic - thru-beam with metal covering

**LSE 18-2,3-0,5-K9**

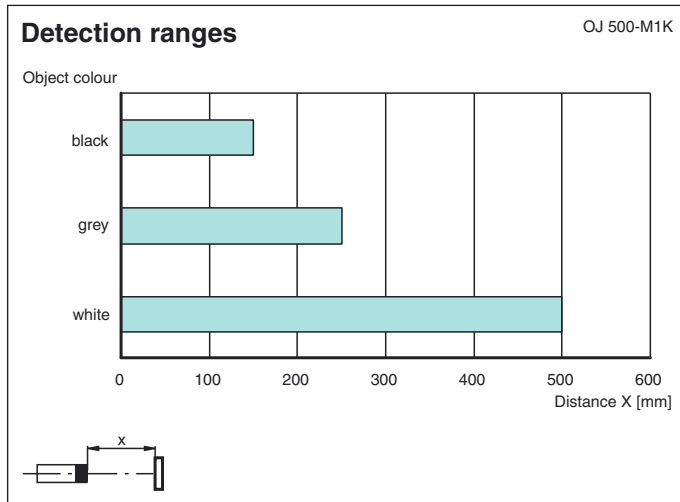
Glass fiber optic - thru-beam with silicon covering

**LME 18-1,9-0,5-K9**

Glass fiber optic - thru-beam with metal covering

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

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