



Model Number

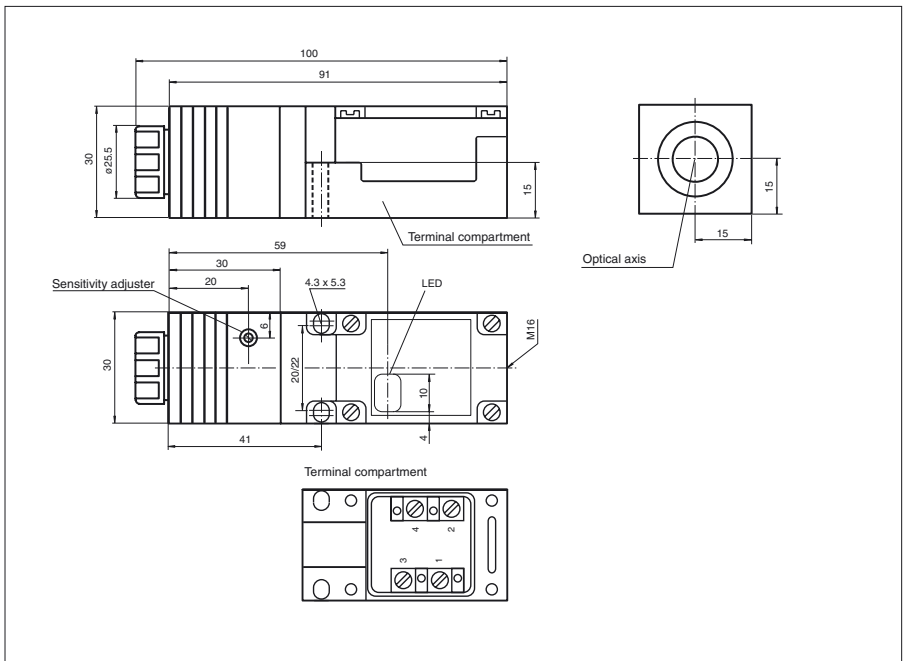
OJ500-M1K-E23

Fiber optic sensor
with terminal compartment

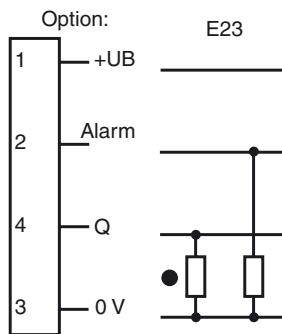
Features

- Light/dark ON parameterisable
- Adjustable sensor head

Dimensions

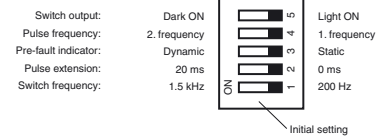


Electrical connection



- = Light on
- = Dark on

Selector switches in terminal compartment



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

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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
Ambient light limit	40000 Lux
Temperature influence	≤ 0.5 mm/K

Indicators/operating means

Operation indicator	LED green
Function indicator	LED yellow: switching state LED red: stability control (flashing)
Control elements	programming switch: bright/dark changeover switch selection of the operating frequency selection of the switching frequency pulse extension stability control dynamic/static
Control elements	Sensing 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

Conformity

Product standard	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)

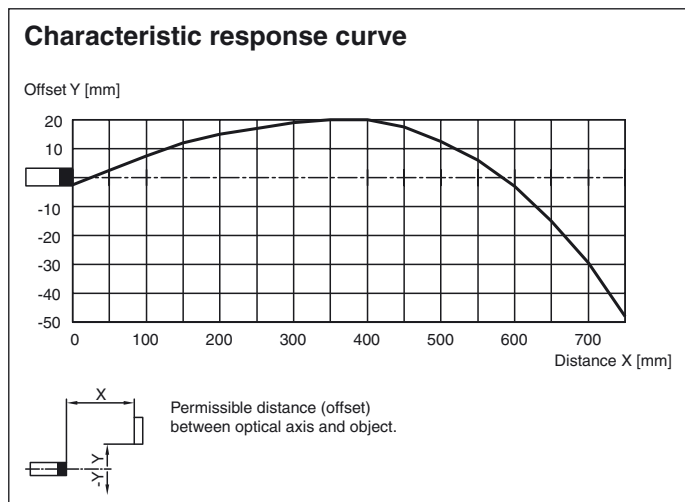
Mechanical specifications

Housing width	30 mm
Housing height	30 mm
Housing depth	102 mm
Degree of protection	IP67
Connection	M16 terminal compartment, core cross section ≤ 2.5 mm ²
Material	
Housing	PBT
Optical face	Scratch resistant mineral glass lens
Mass	100 g

Approvals and certificates

CCC approval	CCC approval / marking not required for products rated ≤ 36 V
Approvals	CE

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

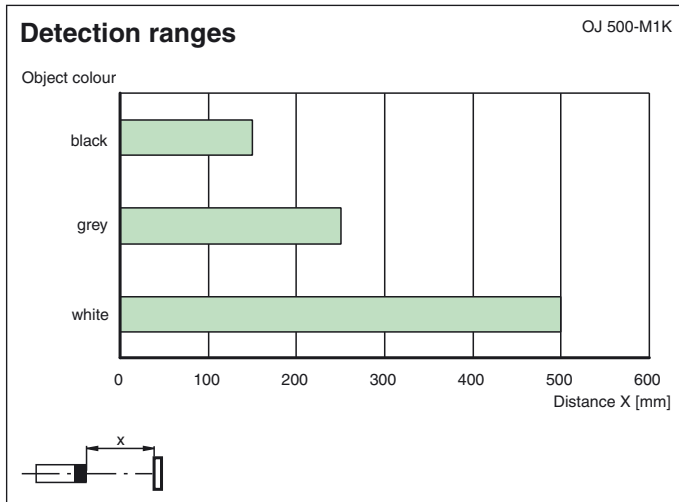
Glass fiber optic - thru-beam with silicon covering

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

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