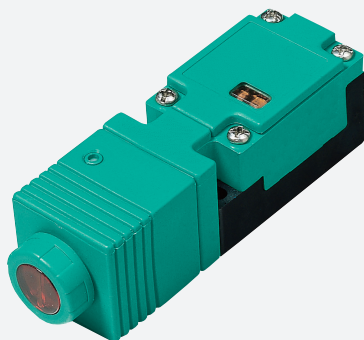
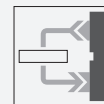




Fiber optic sensor OJ500-M1K-E23

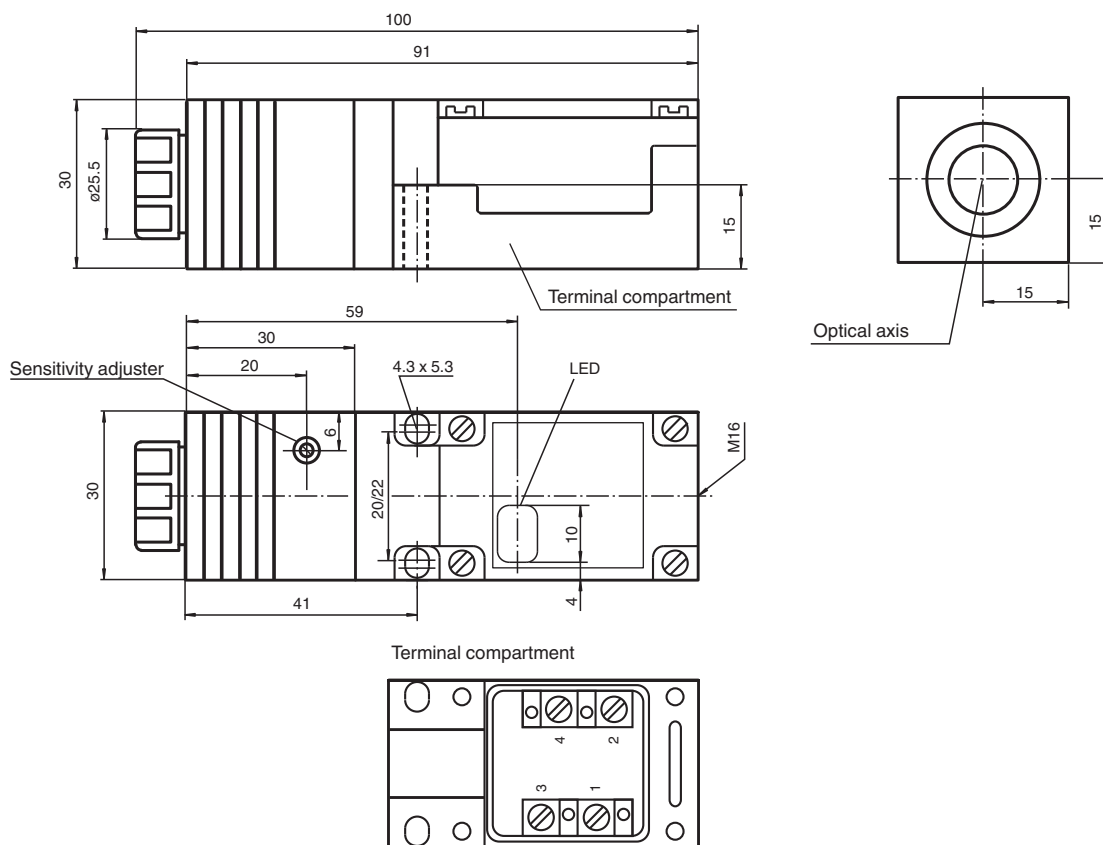
- Light-on/dark-on parameterizable
- Adjustable sensor head



Fiber optic sensor for glass fiber optics



Dimensions



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)

Release date: 2026-02-24 Date of issue: 2026-02-24 Filename: 018937_eng.pdf

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

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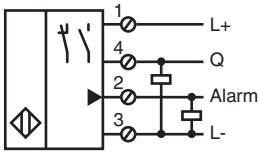
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Reference target	standard white 200 mm x 200 mm (only for retroreflective fiberoptic cables)	
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: operating reserve (flashing)
Control elements		programming switch: light-on/dark-on changeover switch selection of the operating frequency selection of the switching frequency pulse extension operating reserve 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		
Stability alarm output		1 PNP, active when falling short of operating reserve (only available if 200 Hz switching frequency is selected)
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
Voltage drop	U _d	≤ 2.5 V
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
Approvals and certificates		
CCC approval		CCC approval / marking not required for products rated ≤36 V
Approvals		CE
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 80 °C (-40 ... 176 °F)
Mechanical specifications		
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
Dimensions		
Height		30 mm
Width		30 mm
Depth		102 mm

Connection Assignment

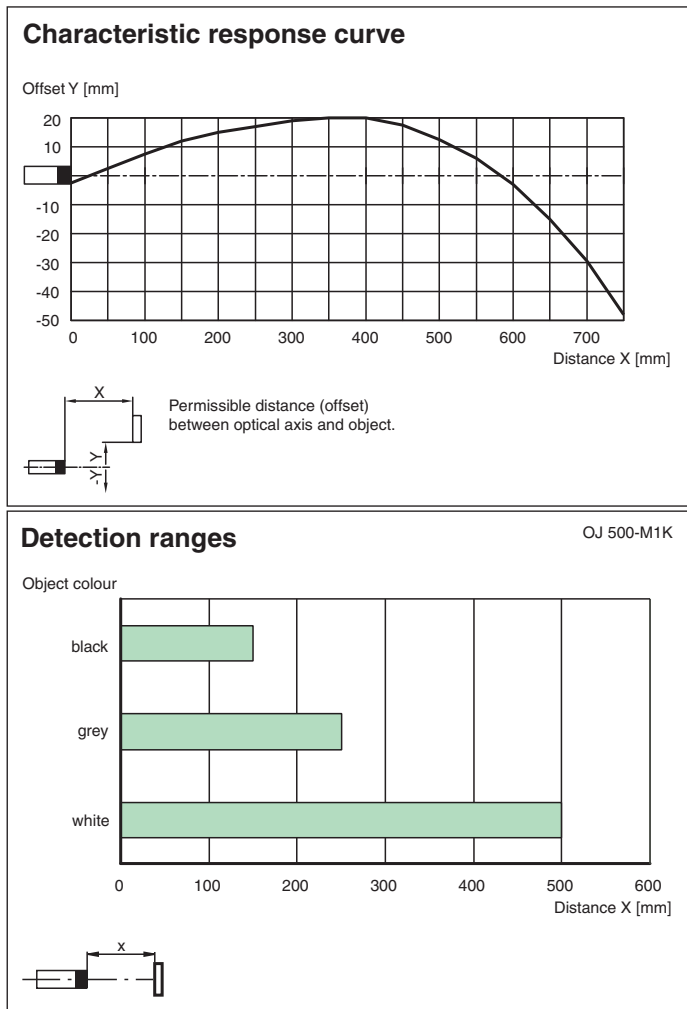


Selector switches in terminal compartment

Switch output:	Dark ON		Light ON
Pulse frequency:	2. frequency		1. frequency
Pre-fault indicator:	Dynamic		Static
Pulse extension:	20 ms		0 ms
Switch frequency:	1.5 kHz		200 Hz

Initial setting

Characteristic Curve



Safety Information

- Safety Instructions:**
- Read the operating instructions before commissioning.
 - Installation, connection and adjustments should only be undertaken by qualified personnel.
 - No safety component according to Machinery Directive 2006/42/EC, may not be used for personal protection or EMERGENCY STOP function.