



Model Number

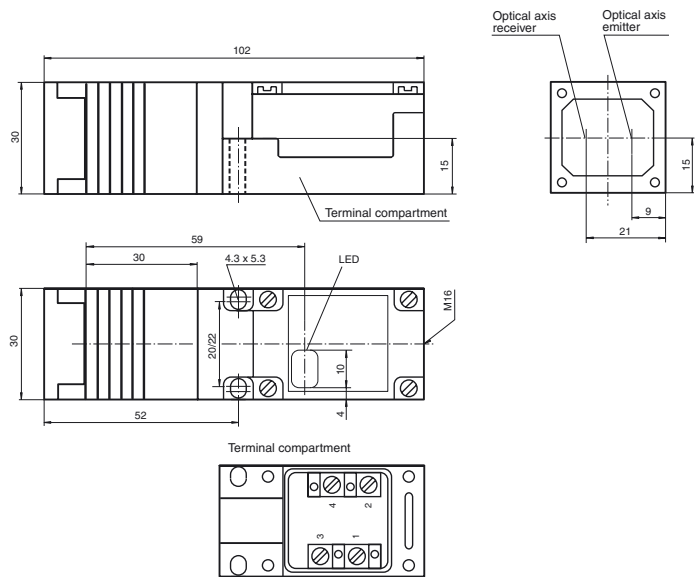
OJ3000-M1K-E23

Retroreflective sensor with polarization filter
with terminal compartment

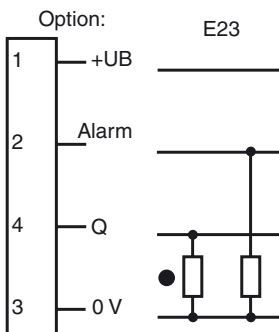
Features

- Light/dark ON parameterisable
- Visible red light
- Glare protected with polarization filter
- Pre-fault indication and output (dynamic and static)
- Protected against mutual interference (no cross-talk)
- Removable terminal compartment
- Adjustable sensor head

Dimensions

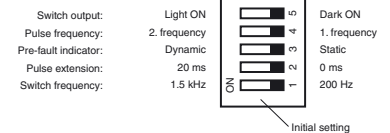


Electrical connection



- = Light on
● = Dark on

Selector switches in terminal compartment



Technical data

General specifications

Effective detection range	0 ... 3000 mm
Reflector distance	200 ... 3000 mm
Threshold detection range	6 m
Reference target	reflector C110-2
Light source	LED
Light type	modulated visible red light
Polarization filter	yes
Ambient light limit	10000 Lux

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

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 switchable
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	2.5 ms by 200 kHz , 0.3 ms at 1.5 kHz
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

