



Model Number

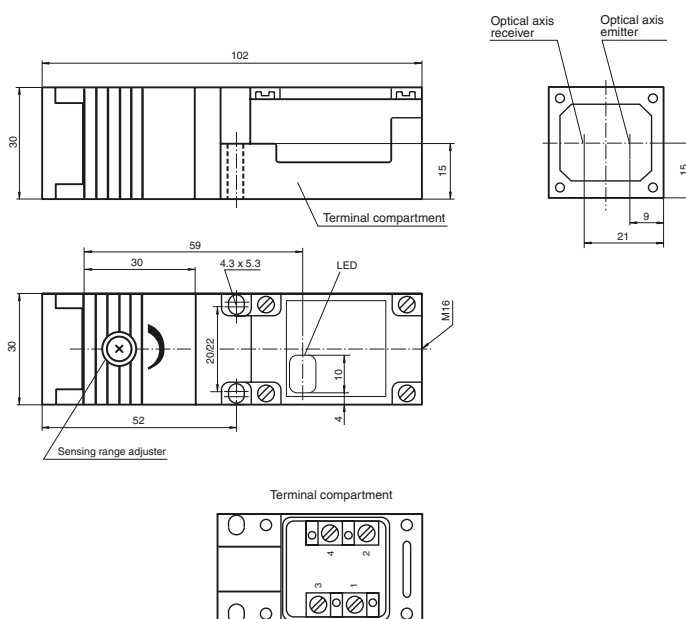
OCH100-M1K-E23

Background suppression sensor
with terminal compartment

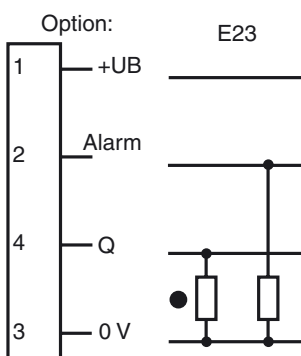
Features

- Light/dark ON parameterisable
- Pre-fault indication and output (dynamic and static)
- Protected against mutual interference
- Removable terminal compartment
- Adjustable sensor head

Dimensions

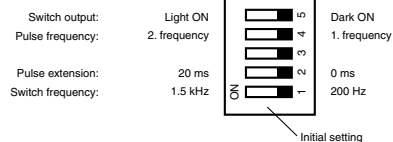


Electrical connection



○ = Light on
● = Dark on

Selector switches in terminal compartment



Technical data

General specifications

Detection range	0 ... 100 mm
Detection range min.	0 ... 30 mm
Detection range max.	0 ... 100 mm
Reference target	standard white 100 mm x 100 mm
Light source	LED
Light type	modulated infrared light
Approvals	CE
Ambient light limit	10000 Lux

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

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
Ripple		10 %
No-load supply current	I_0	≤ 35 mA
Time delay before availability	t_v	≤ 20 ms

Output

Output of the pre-fault indication	1 PNP, active when falling short of the stability control
Switching type	light/dark on
Signal output	1 PNP output, short-circuit protected, protected from reverse polarity, open collector
Switching voltage	max. 30 V DC
Switching current	≤ 200 mA
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

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

Mechanical specifications

Protection degree	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	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

