



**Model Number**

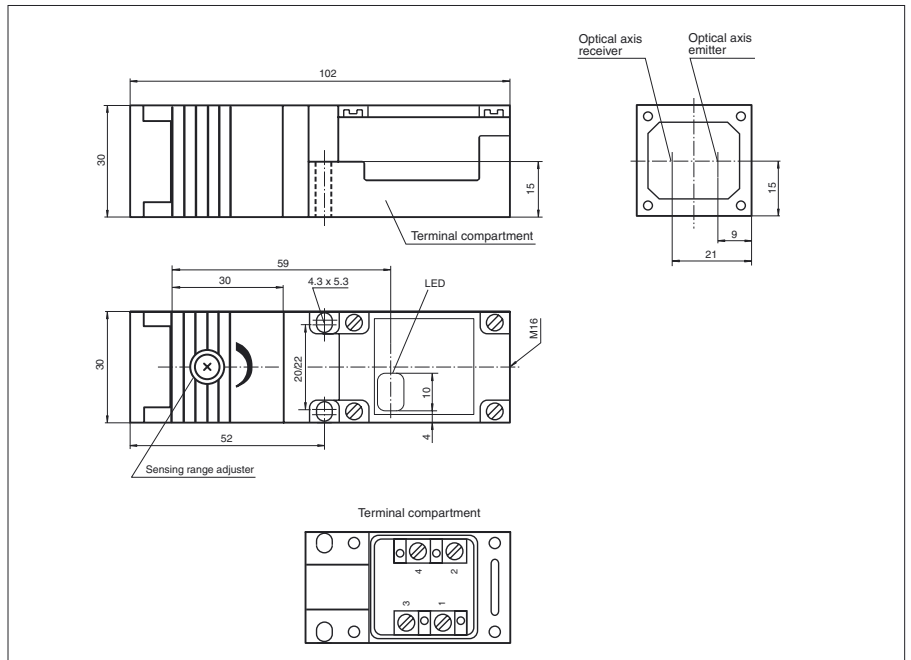
**OCH100-M1K-E23**

Background suppression sensor with terminal compartment

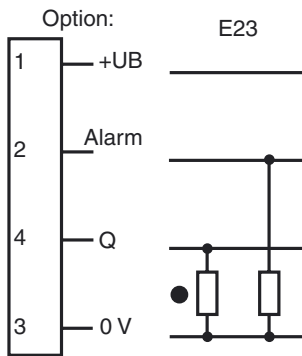
**Features**

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

**Dimensions**

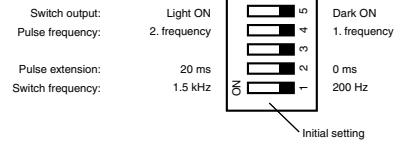


**Electrical connection**



○ = Light on  
● = Dark on

**Selector switches in terminal compartment**



Release date: 2004-08-12 13:26 Date of issue: 2011-01-26 121204\_ENG.xml

**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
-----------	--------------

**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&nbsp;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.
--------------	--

**Curves/Diagrams**