



OJ3000-M1K-E01

Retroreflective sensor with polarisation filter

# OJ3000-M1K-E01

with terminal compartment

CE



- ◆ Light/dark ON parameterisable
- ◆ Visible red light
- ◆ Glare protected with polarisation filter
- ◆ Pre-fault indication and output (dynamic and static)
- ◆ Protected against mutual interference
- ◆ Removable terminal compartment
- ◆ Position of the sensor head adjustable

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**General specifications**

Effective detection range	0 ... 3000 mm
Reflector distance	200 ... 3000 mm
Threshold detection range	6 m
Light source	LED
Approvals	CE
Reference target	reflector C110_2
Light type	red, modulated light
Ambient light limit	10000 Lux

**Indicators/operating means**

Operating display	LED green
Function display	LED yellow: switching state LED red: stability control (flashing)
Operating 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	10 ... 30 V DC
Ripple	10 %
No-load supply current $I_0$	$\leq 35$ mA

**Output**

Output of the pre-fault indication	1 npn, active when falling short of the stability control
Switching type	Light/dark ON, switchable
Signal output	1 NPN output, short-circuit proof, protected from reverse polarity, open collector
Switching voltage	max. 30 V DC
Switching current	$\leq 200$ mA
Voltage drop $U_d$	$\leq 2.5$ V
Switching frequency $f$	$\leq 1.5$ 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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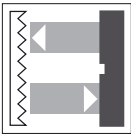
**Ambient conditions**

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
Storage temperature	-40 ... 80 °C (233 ... 353 K)

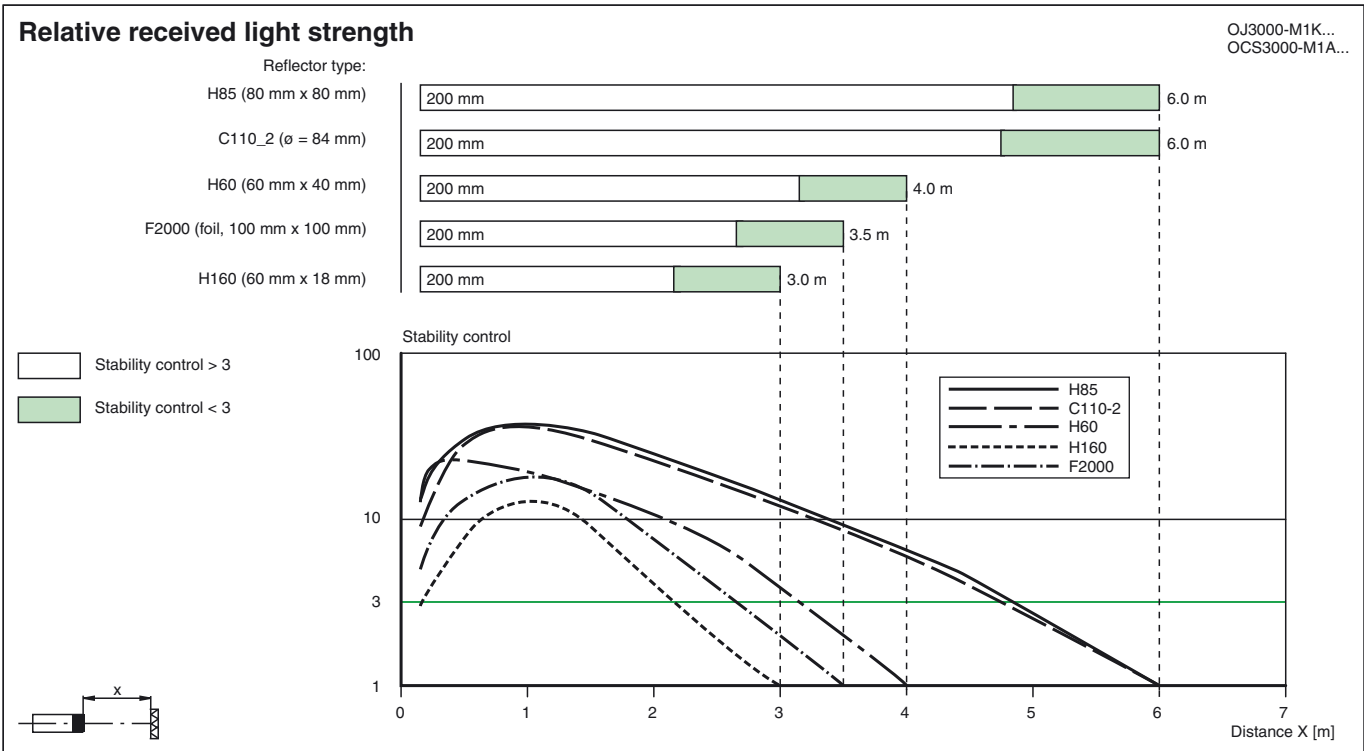
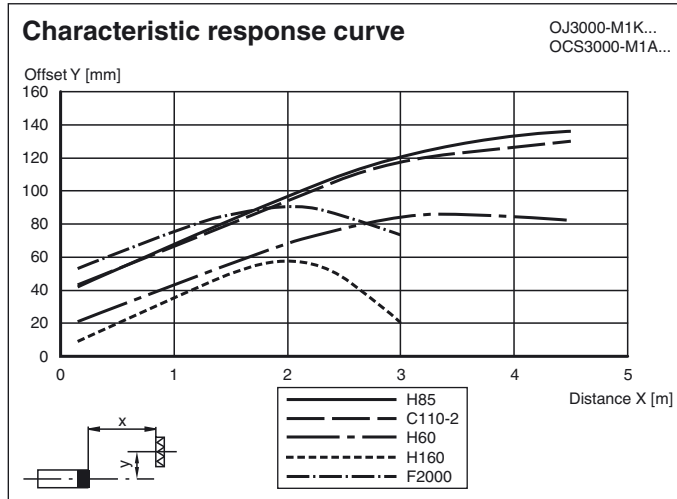
**Mechanical specifications**

Protection degree	IP67
Connection	terminal compartment M16, core cross-section $\leq 2,5$ mm <sup>2</sup>
Material	
Housing	PBT
Optical face	Scratch resistant mineral glass lens
Mass	100 g

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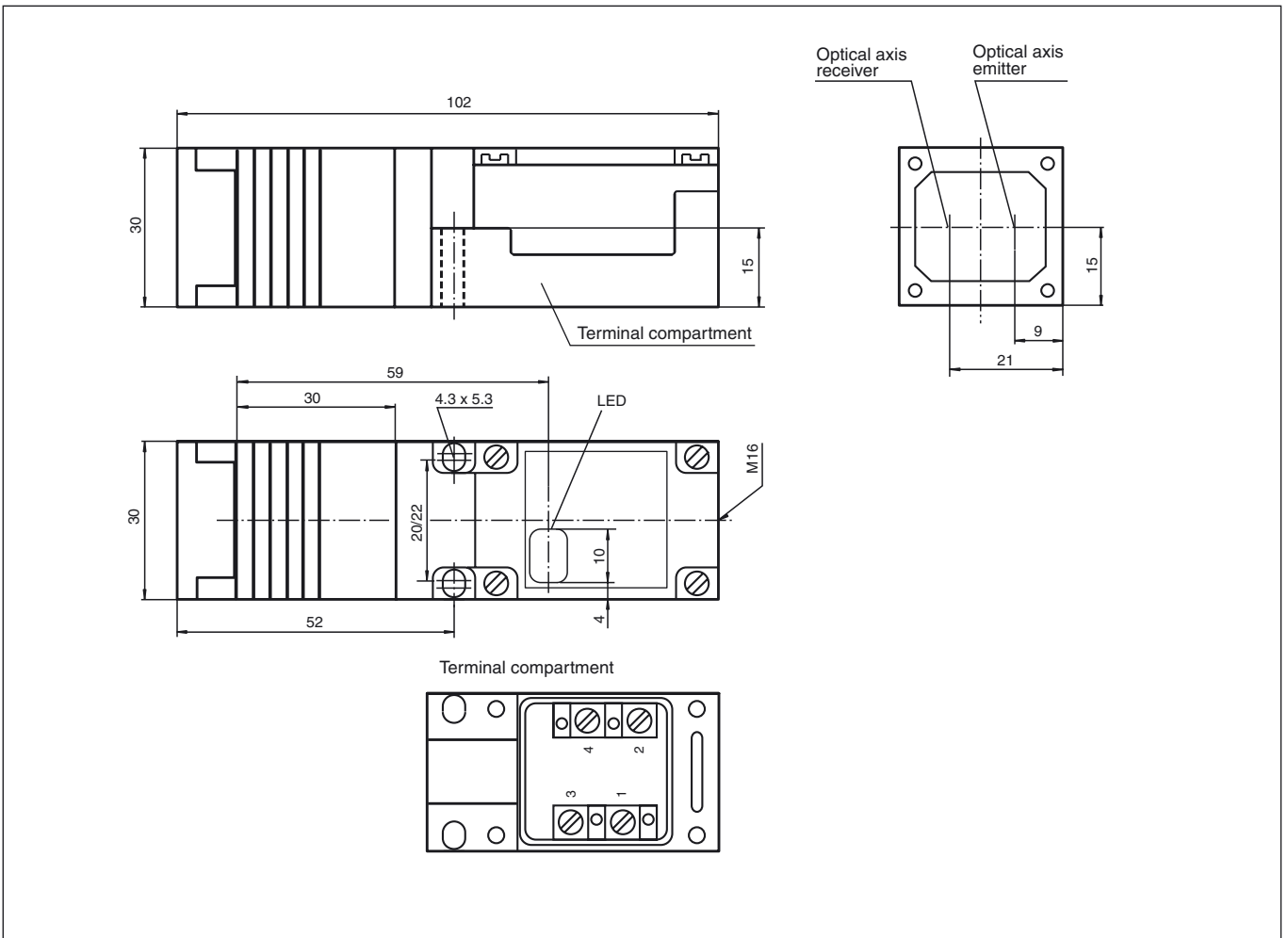


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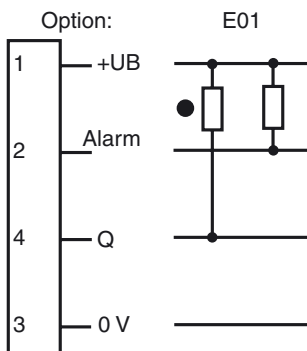


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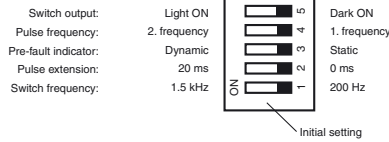
Dimensions



Electrical connection



Selector switches in terminal compartment



○ = light on, ● = dark on