



Model Number

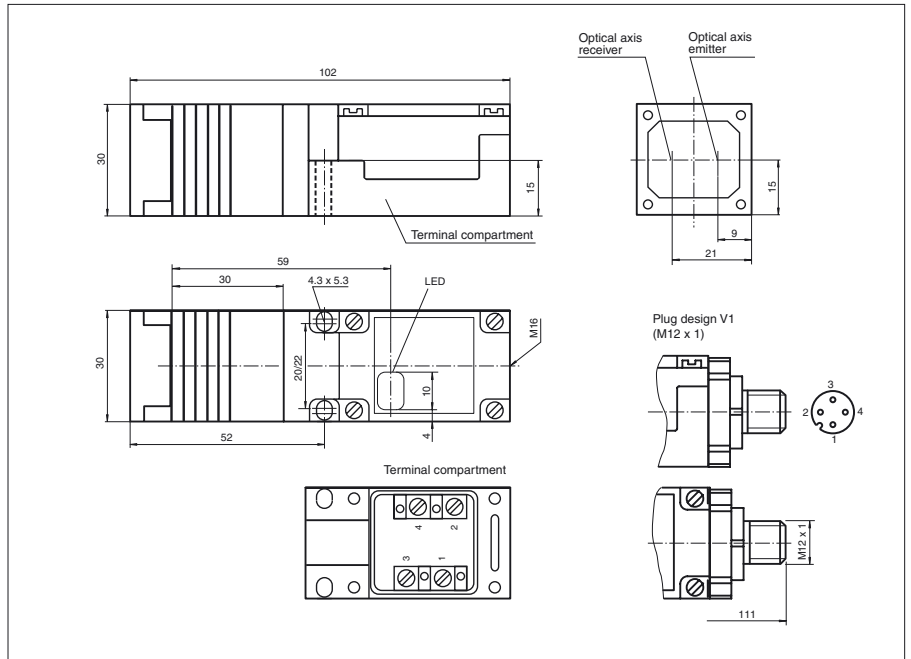
OCS3000-M1A-B3

Retroreflective sensor with polarization filter
with terminal compartment

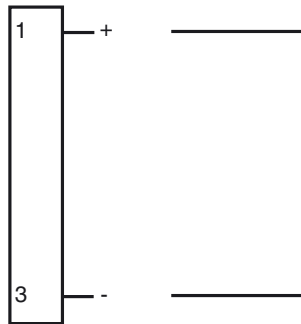
Features

- Light/dark ON parameterisable
- AS-Interface certificate
- Visible red light
- Glare protected with polarization filter
- Pre-fault indication (dynamic, static)
- Protected against mutual interference (no cross-talk)
- Adjustable sensor head

Dimensions



Electrical connection



- = Light on
- = Dark on

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

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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)

Electrical specifications

Operating voltage	U_B	via AS-Interface network
Ripple		10 %
No-load supply current	I_0	≤ 40 mA
Time delay before availability	t_v	≤ 20 ms

Output

Pre-fault indication output		data bit D1 (not at 1.5 kHz)
Switching type		light/dark on switchable
Signal output		AS-Interface
Switching frequency	f	≤ 1.5 kHz / 200 Hz programmable with ULTRA 2001
Response time		≤ 0.3 ms at 1.5 kHz, ≤ 2.5 ms at 200 Hz
Timer function		pulse extension 20 ms, configurable

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

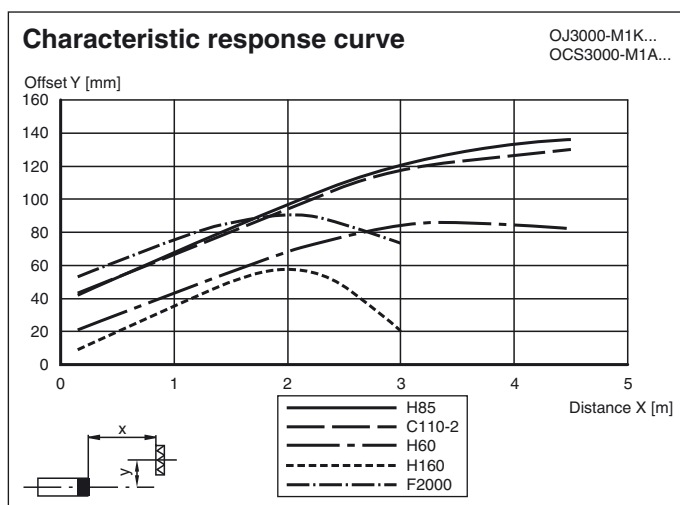
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 80 °C (-40 ... 176 °F)

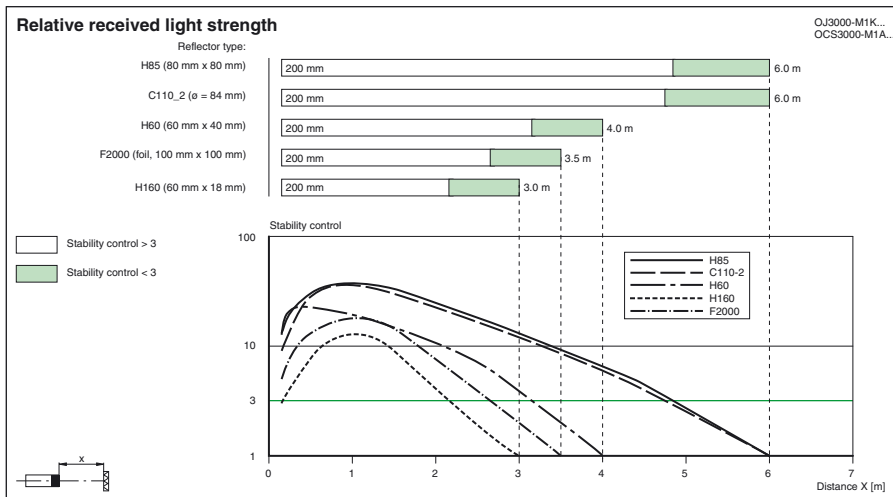
Mechanical specifications

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

Approvals	CE
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Curves/Diagrams



AS-Interface programming

Address preset to 00, can be changed via Busmaster or programming devices

IO code 1

ID code 1

• Data bit

Bit Function

D0 switch output

D1 pre-fault indication (0=ON, 1=OFF)

D2 ready to operate

D3 switching frequency 200 Hz*/1.5 kHz³⁾

• Parameter bit

Bit Function (1/2)

P0 pulse frequency 1*/2

P1 switch output, light*/dark ON

P2 pulse extension (20 ms) OFF*/ON

P3 pre-fault indication³⁾ dynamic*/static

* Default setting ³⁾No activation of pre-fault signal at 1.5 kHz.