



Model Number

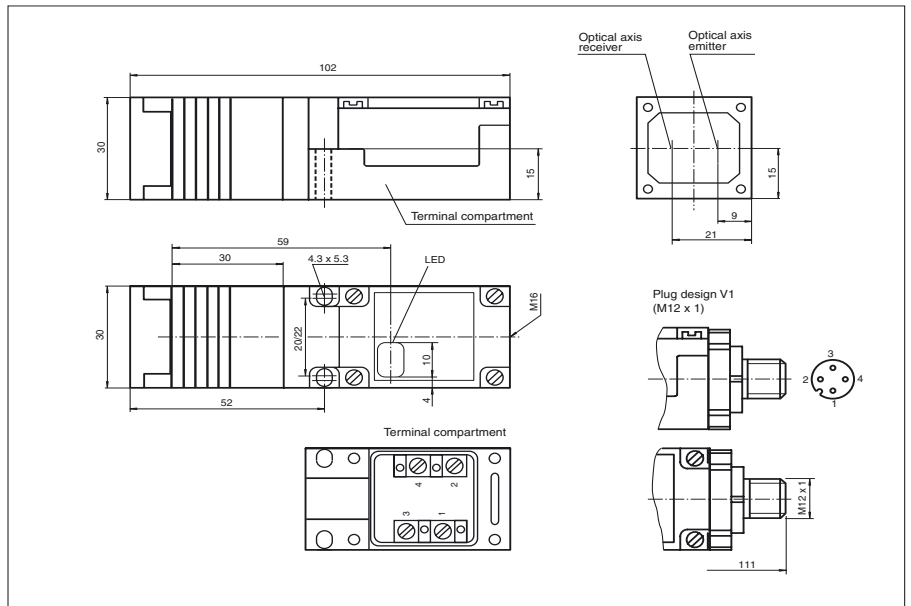
OCS3000-M1A-B3-V1

connector M12 x 1, 4-pin

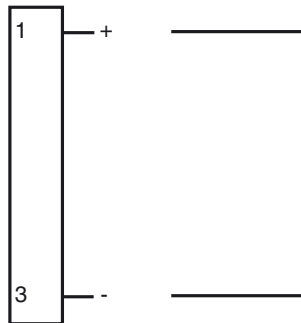
Features

- Light/dark ON parameterisable
- AS-Interface certificate
- Visible red light
- Glare protected with polarisation filter
- Pre-fault indication (dynamic, static)
- Protected against mutual interference
- Position of the sensor head adjustable

Dimensions



Electrical connection



- = Light on
- = Dark on

Release date: 2007-08-15 16:30 Date of issue: 2007-08-15 037094_ENG.xml

Technical data**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)

Electrical specifications

Operating voltage	via AS-Interface network
Ripple	10 %
No-load supply current	$I_0 \leq 40 \text{ mA}$
Time delay before availability	$t_v \leq 20 \text{ ms}$

Output

Output of the pre-fault indication	data bit D1 (not at 1.5 kHz)
Switching type	Light/dark ON, switchable
Signal output	AS-Interface
Switching frequency	$f \leq 1.5 \text{ kHz} / 200 \text{ Hz}$ parameterisable with ULTRA 2001
Response time	$\leq 0.3 \text{ ms}$ at 1.5 kHz, $\leq 2.5 \text{ ms}$ at 200 Hz
Timer function	pulse extension 20 ms, configurable

Standard conformity

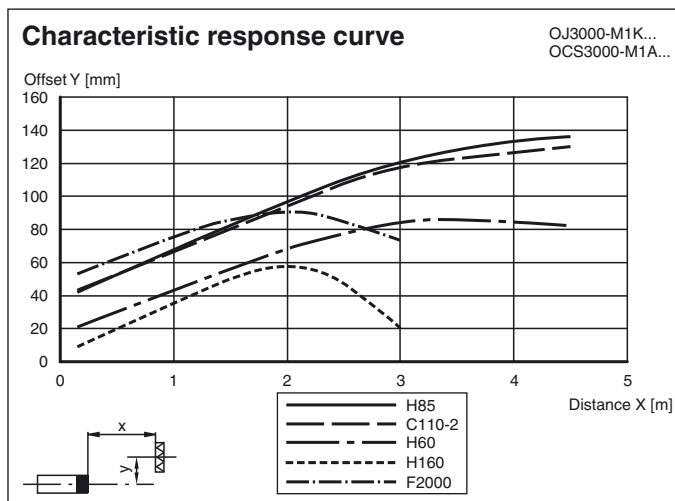
Standards	EN 60947-5-2
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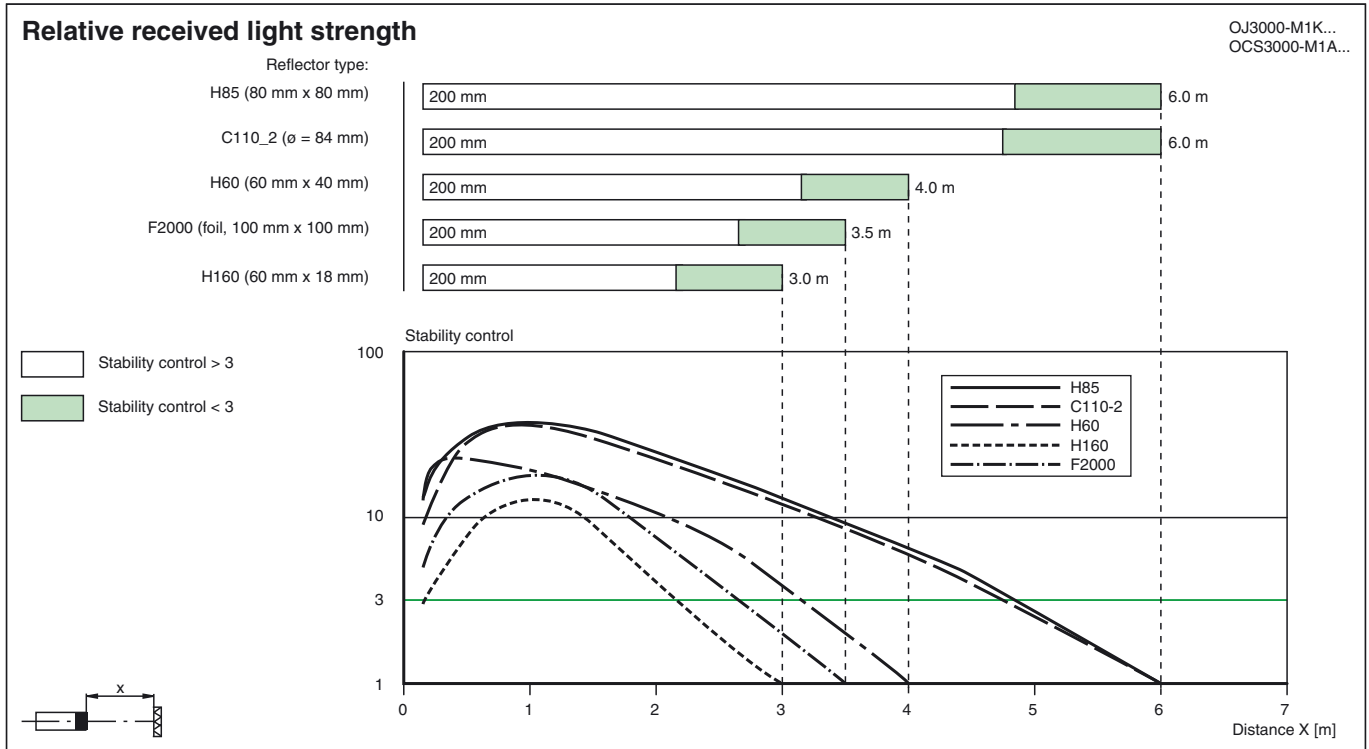
Ambient conditions

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

Mechanical specifications

Protection degree	IP67
Connection	connector M12 x 1, 4-pin
Material	
Housing	PBT
Optical face	Scratch resistant mineral glass lens
Mass	100 g





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 kHz ³⁾

• 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 indication ³⁾ dynamic*/static

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