

OBS3000-18GM70-..-V1

Reflection light beam switch

OBS3000-18GM70-..-V1

with 4-pin, M12 connector



Sensors in
threaded housings



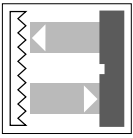
- ◆ Detection range up to 3000 mm
- ◆ Light/dark ON, programmable
- ◆ Protection degree IP67
- ◆ Strong metallic housing in cylindrical shape M18 x 1
- ◆ Sensitivity adjuster for optimal adaptation to the application
- ◆ LED indicating for a simple operation start

For suitable cable sockets, reflectors and mounting aids refer to chapter "accessories".

Date of issue
10/8/01

Ordering code		OBS3000-18GM70-E4-V1	OBS3000-18GM70-E5-V1
Effective detection range	0 ... 3 m	◆	◆
Reference target	Reflector C110_2	◆	◆
Reflector distance	100 ... 3000 mm	◆	◆
Reflector range	100 ... 3000 mm	◆	◆
Light source	LED	◆	◆
Light type	Infrared, alternating light	◆	◆
Ambient light limit	10000 Lux	◆	◆
Standard conformity	EN 60947-5-2	◆	◆
Approvals	CE	◆	◆
Function display	LED yellow: switching state	◆	◆
Controls	sensitivity adjuster	◆	◆
Operating voltage	10 ... 30 V DC	◆	◆
Ripple	10 %	◆	◆
No-load supply current	≤ 20 mA	◆	◆
Time delay before availability	≤ 50 ms	◆	◆
Signal output	1 switch output npn	◆	
	1 switch output pnp		◆
Switching type	light/dark switching	◆	◆
Switching voltage	max. 30 V DC	◆	◆
Switching current	max. 100 mA	◆	◆
Voltage drop	≤ 2.5 V	◆	◆
Switching frequency	≤ 300 Hz	◆	◆
Switch-on delay	1.5 ms	◆	◆
Response time	≤ 1.5 ms	◆	◆
Ambient temperature	-25 ... +55 °C	◆	◆
Storage temperature	-40 ... +70 °C	◆	◆
Protection degree	IP67	◆	◆
Connection type	Connector M12 x 1, 4-pin	◆	◆
Housing	brass, nickel plated	◆	◆
Light exit	PC	◆	◆
Mass	45 g	◆	◆

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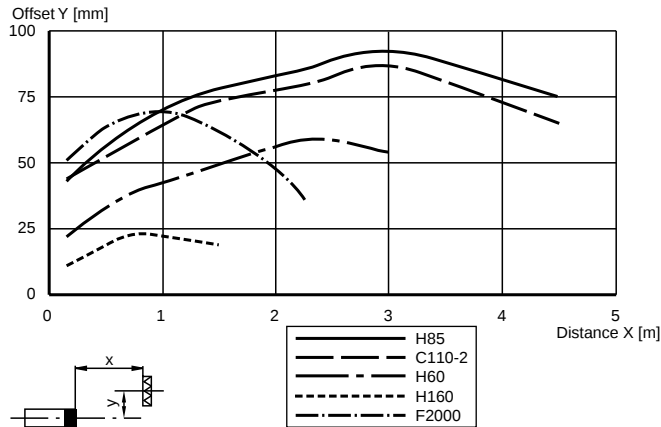


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Diagrams

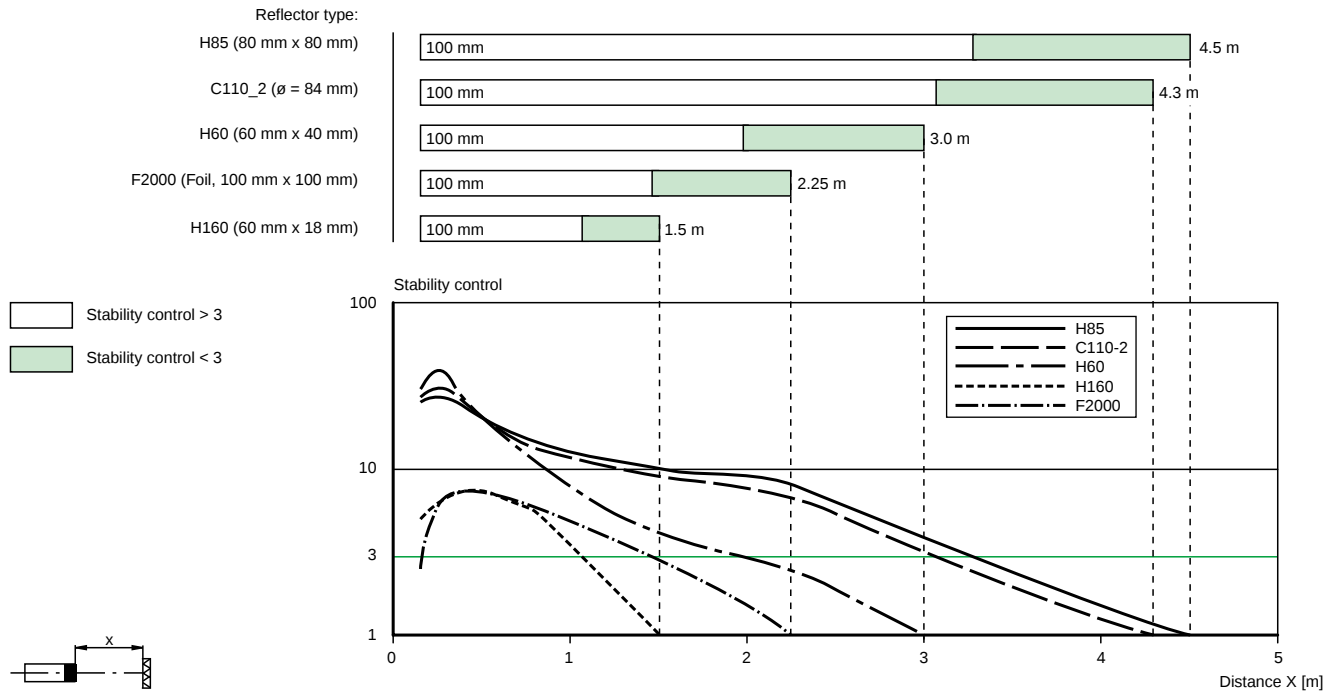
Characteristic response curve

OBS3000-18GM70

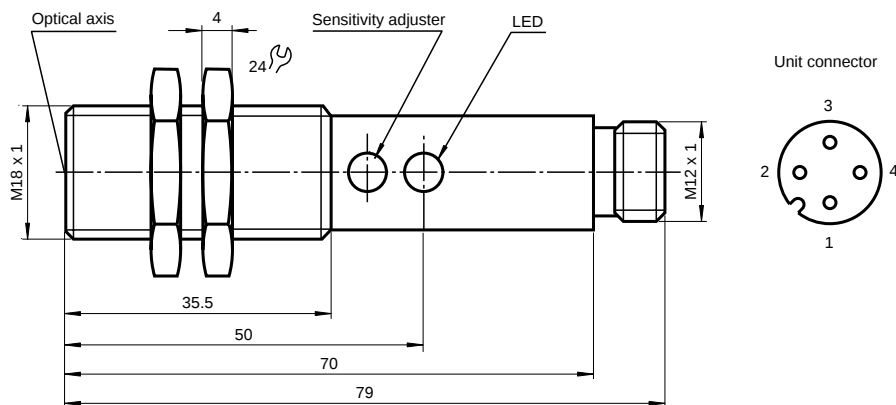


Relative received light strength

OBS3000-18GM70



Dimensions



Electrical Connection

