

OBT500-18GM70-...

Reflection light scanner

OBT500-18GM70-...

with 2 m fixed cable or 4-pin, M12 connector

CE

Sensors in
threaded housings



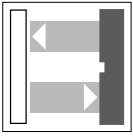
- ◆ Sensing range up to 500 mm
- ◆ Light/dark ON, programmable
- ◆ Protection degree IP67
- ◆ Strong metallic housing in cylindrical shape M18 x 1
- ◆ Sensitivity adjuster for optimal adaptation to the application
- ◆ LED indicating for a simple operation start

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

Date of issue
10/8/01

Ordering code		OBT500-18GM70-E4	OBT500-18GM70-E4-V1	OBT500-18GM70-E5	OBT500-18GM70-E5-V1
Detection range	0 ... 500 mm	◆	◆	◆	◆
Reference target	Standard white 200 mm x 200 mm	◆	◆	◆	◆
Adjustment range	5 ... 500 mm	◆	◆	◆	◆
Light type	IR-light 940 nm	◆	◆	◆	◆
Ambient light limit	≤ 10000 Lux sun light	◆	◆	◆	◆
	≤ 3000 Lux halogen light	◆	◆	◆	◆
Standard conformity	EN 60947-5-2	◆	◆	◆	◆
Function display	LED yellow: switching state	◆	◆	◆	◆
Controls	sensitivity adjuster	◆	◆	◆	◆
No-load supply current	≤ 20 mA	◆	◆	◆	◆
Time delay before availability	50 ms	◆	◆	◆	◆
Switching type	Light/dark ON, programmable	◆	◆	◆	◆
Voltage drop	≤ 2.5 V	◆	◆	◆	◆
Switching frequency	≤ 300 Hz	◆	◆	◆	◆
Switch-on delay	1.5 ms	◆	◆	◆	◆
Range hysteresis	≤ 10 %	◆	◆	◆	◆
Ambient temperature	-25 ... +55	◆	◆	◆	◆
Storage temperature	-40 ... +70	◆	◆	◆	◆
Protection degree	IP67 according to EN 60529	◆	◆	◆	◆
Connection type	Connector M12 x 1		◆		◆
	2 m cable, 3 x 0.34 mm ² , PVC	◆		◆	
Housing	brass, nickel plated	◆	◆	◆	◆
Light exit	PC	◆	◆	◆	◆
Mass	45 g	◆	◆	◆	◆

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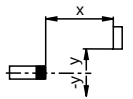
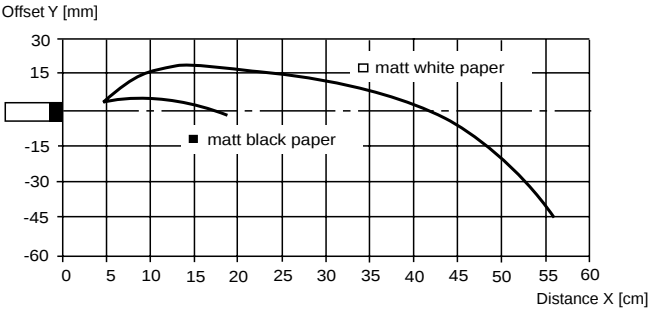


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Diagrams

Characteristic response curve

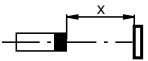
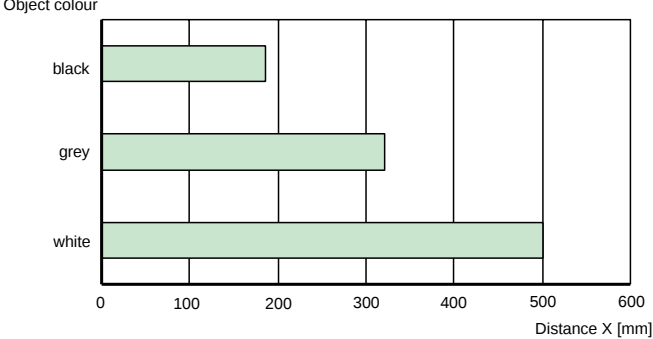
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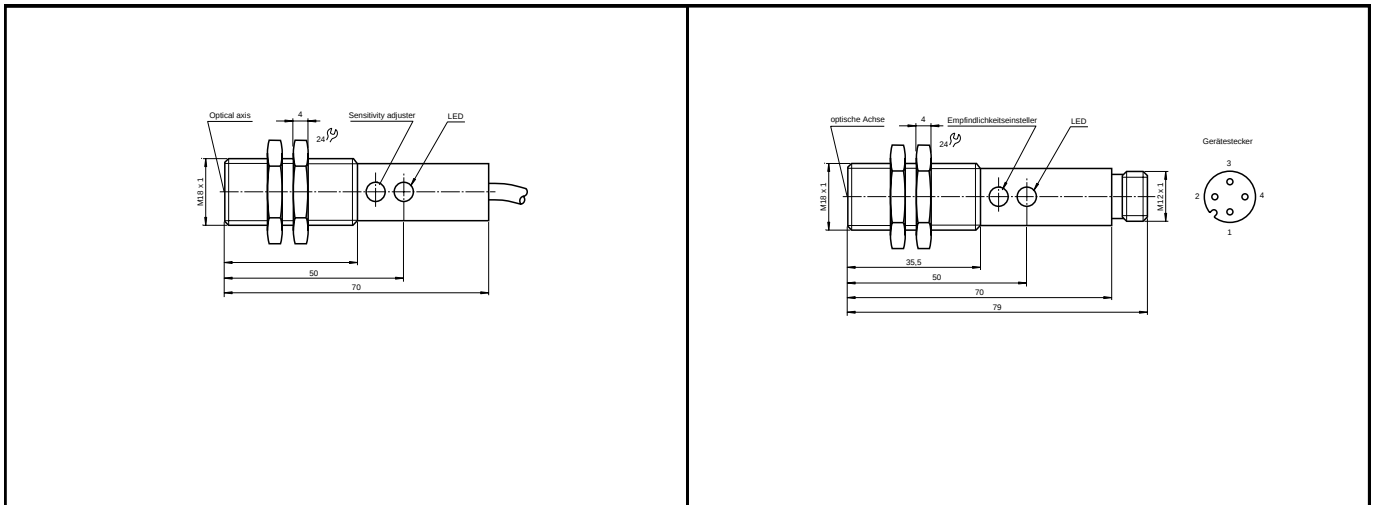
Permissible separation (offset) between optical axis and object.

Detection ranges

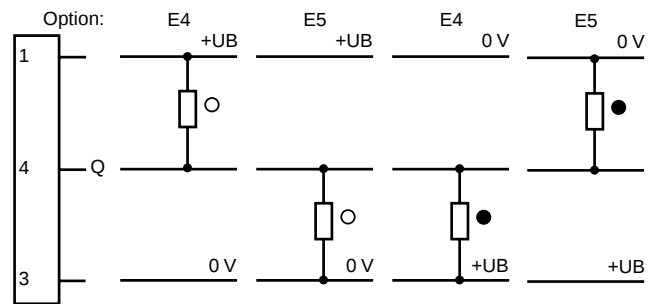
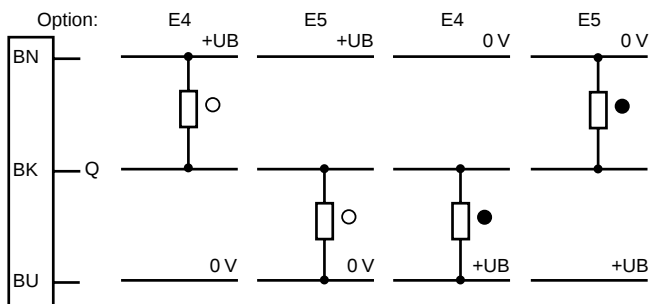
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Dimensions



Electrical Connection



○ = Light ON, ● = Dark ON