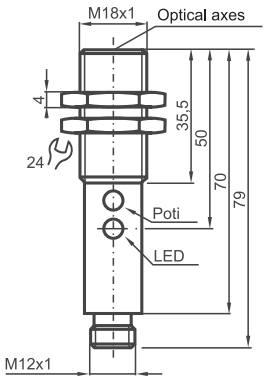
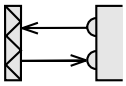


Identification

Retro-reflective photoelectric sensor



1.5 m

3.0 m

OBS1500-18GM70-B3-V1

OBS3000-18GM70-B3-V1

Features

OBS1500

- 1,500 mm adjustable sensing range
- Visible red light
- Polarized filter
- IP 67
- Reflector included
- AS-Interface certified

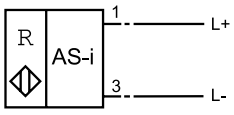
OBS3000

- 3,000 mm adjustable sensing range
- IP 67
- Reflector included
- AS-Interface certified

Refer to the "Accessories" section for mating connectors

Mating connectors: V1-G-2M-PVC (straight)
V1-W-2M-PVC (angled)

Electrical Connection



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Technical Data:

Model Number		OBS1500-18GM70-B3-V1	OBS3000-18GM70-B3-V1
Sensing range	[mm]	0-1,500	0-3,000
Standard target	[mm]	reflector 50 x 50	
Adjustment			
sensing range		with potentiometer	
Detectable object		opaque and reflective	opaque
Switching frequency			
(Pulse: Pause 1:1)	[Hz]	100	
Power-on delay	[ms]	10	
Indicators LED yellow		switch status	
Light source		infrared light 950 nm	infrared light 940 nm
Ambient light resistance		sunlight ≤ 10,000 Lux	
		halogen light ≤ 3,000 Lux	
Storage temperature	[°C]	-25 ... +70 (-13 ... +158°F)	
Operating temperature	[°C]	-40 ... +80 (-40 ... +176°F)	
Electrical Data			
Operating voltage		via AS-Interface	
Operating current	[mA]	≤ 40	
Mechanical Data			
Protection (IEC)		IP 67	
Lens		dual lens, crystal	
Allowable shock and		b ≤ 30 g, T ≤ 11 ms	
Vibration stress		f ≤ 55 Hz, a ≤ 1 mm	
Electrical connection		VI quick disconnect	
Housing material		brass, nickel-plated	
Lens		PMMA	PC
Weight	[g]	45	
Fulfills standard		EN 60 947-5-2	

Programming Instructions

The preset address of 00 can be changed via the bus master or with a handheld programmer.
IO-Code 1
ID-Code 1

Data bits

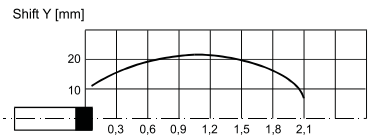
Bit	Function
D0	switch output
D1	not used
D2	operational availability
D3	not used

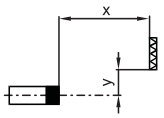
Parameter bits

Bit	Function
P0	not used
P1	light-on*/dark-on
P2	not used
P3	not used
	* standard setting

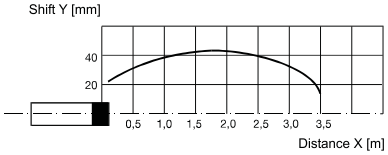
Characteristic Response Curve

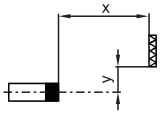
OBS1500-...
Possible distance (shift) between the optical axes and the object.





OBS3000-...
Possible distance (shift) between the optical axes and the object.





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