

Photoelectric sensor - rectangular OSM70



Description:

Metal housing, 150m laser opposed, 30m laser retro-reflective, 25m laser polarized retro-reflective, 3m laser BGS diffuse, coaxial technology, no blind zone, precise positioning, wide voltage supply, relay output. Suitable for automotive manufacturing, metallurgical industry, non-standard equipment, textile machinery and others.

Features:

- BGS function greatly improves the detection effect
- Long detection distance
- Adjust the sensitivity by knob
- IP67 protection class
- Push-pull / relay output

Type: (light source-laser)

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OSM70-SL6	150m	Laser	---	---	---	2m cable	Fig.1
	OSM70-ELVB6		---	800Hz	Push-Pull	Light on / dark on	2m cable	Fig.4
	OSM70-SL6Q	150m	Laser	---	---	---	M12 4-pin connector	Fig.2
	OSM70-ELVB6Q		---	800Hz	Push-Pull	Light on / dark on	M12 4-pin connector	Fig.4
	OSM70-SL5	150m	Laser	---	---	---	2m cable	Fig.3
	OSM70-ELVR5		---	50Hz	Relay	Light on / dark on	2m cable	Fig.5
Retro-reflective	OSM70-RLVB6	30m	Laser	800Hz	Push-Pull	Light on / dark on	2m cable	Fig.6
	OSM70-RLVB6Q	30m	Laser	800Hz	Push-Pull	Light on / dark on	M12 4-pin connector	Fig.4
	OSM70-RLVR5	30m	Laser	50Hz	Relay	Light on / dark on	2m cable	Fig.5
Polarized retro-reflective	OSM70-RPLVB6	25m	Laser	800Hz	Push-Pull	Light on / dark on	2m cable	Fig.6
	OSM70-RPLVB6Q	25m	Laser	800Hz	Push-Pull	Light on / dark on	M12 4-pin connector	Fig.4
	OSM70-RPLVR5	25m	Laser	50Hz	Relay	Light on / dark on	2m cable	Fig.5
BGS	OSM70-AKL3000VB6	3m	Laser	10Hz	Push-Pull	Light on / dark on	2m cable	Fig.6
	OSM70-AKL3000VB6Q	3m	Laser	10Hz	Push-Pull	Light on / dark on	M12 4-pin connector	Fig.4
	OSM70-AKL3000VR5	3m	Laser	10Hz	Relay	Light on / dark on	2m cable	Fig.5

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Technical Data:

Operating voltage	10...30VDC (push-pull), 24...240VAC/DC (relay)
Ripple voltage	≤10%
Switch output	Push-Pull, Relay
Output characteristics	Light on + dark on
Repeatability	≤3%
light source	650nm laser
Spot diameter	5mm (at 7m), 15mm (at 20m)
No-load current	≤30mA
Load current	≤450mA (push-pull), ≤3A (relay)
Protection circuit	Reverse polarity protection (push-pull), short circuit protection, surge protection (relay), overload protection
Output indicator	Red LED
Steady state indicator	Green LED
Housing material	Die-cast aluminum
Connection	M12 connector / 2 meter cable
Operating temperature	-25°C...55°C
Storage temperature	-40°C...70°C
Detection mode	BGS、 Window mode、 FGS (OSM70-AKL3000)
Voltage resistance	1000V/AC 50/60Hz 60s
Insulation impedance	≥50MΩ (500VDC)
Shock resistance	Complex amplitude 1.5mm 10... 50Hz (2hr X, Y,Z respectively)
Impact resistance	500m/S ² (50G) 3 times X,Y,Z respectively
Protection class	IP67
Dimensions	27×54×84mm

Wiring:

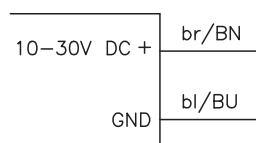


Fig.1

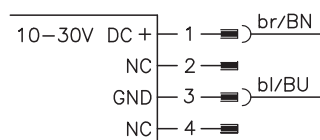


Fig.2

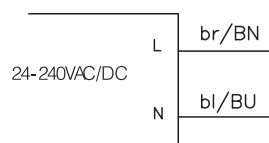
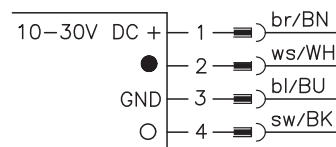


Fig.3



○ = Light on
● = Dark on

Fig.4

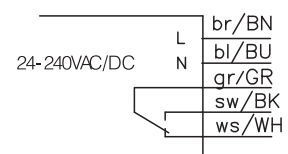
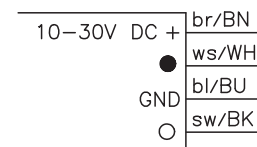


Fig.5



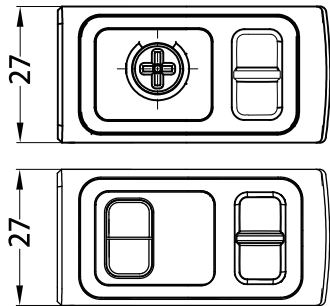
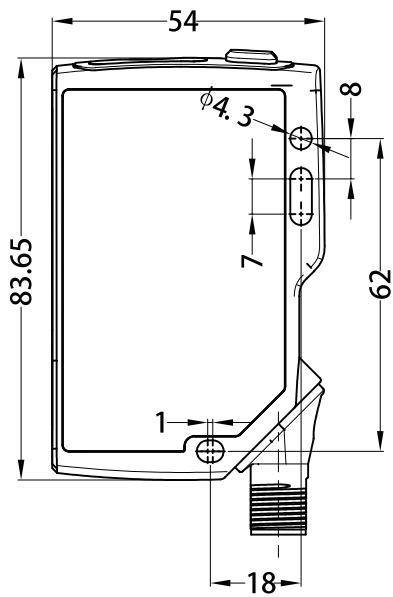
○ = Light on
● = Dark on

Fig.6

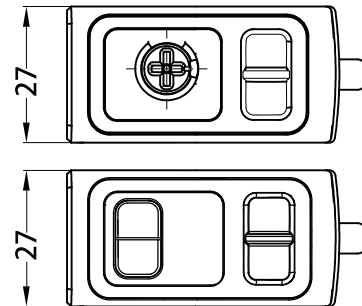
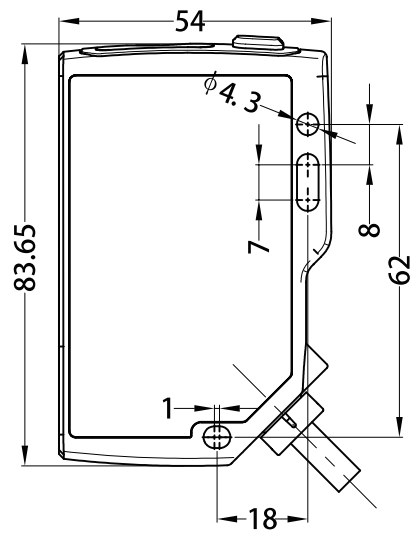
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Dimensions:

M12 connector



2 meter cable



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