

Photoelectric Sensors

Compact-OSM48



Descriptions:

metal housing, M12 turning connector, IP67

Features:

- Extraneous light suppression
- Anti-interference push-pull output
- Laser beam option

Type:

Detection mode	Type	Distance	Beam	Frequency	Output	Switch mode	Connection	Wiring
Opposed	OSM48-S6Q12.1(emitter)	—	Red	—	—	—	M12 connector	2
	OSM48-EV2B6Q12.1(receiver)	20m	—	1500Hz	2xPush-Pull	Light on/ dark on	M12 connector	4
	OSM48-S6(emitter)	—	Red	—	—	—	2m cable	2
	OSM48-EV2B6(receiver)	20m	—	1500Hz	2xPush-Pull	Light on/ dark on	2m cable	4
Opposed laser	OSM48-SL6Q12.1(emitter)	—	Red laser	—	—	—	M12 connector	2
	OSM48-ELL2B6Q12.1(receiver)	100m(adjustable)	—	2800Hz	PNP/NPN	Light on	M12 connector	1
	OSM48-SL6(emitter)	—	Red laser	—	—	—	2m cable	2
	OSM48-ELL2B6(receiver)	100m(adjustable)	—	2800Hz	PNP/NPN	Light on	2m cable	1
Polarized retro -reflective	OSM48-RPV2B6Q12.1	6m ¹⁾	Red	1500Hz	2xPush-Pull	Light on/ dark on	M12 connector	4
	OSM48-RPV2B6	6m ¹⁾	Red	1500Hz	2xPush-Pull	Light on/ dark on	2m cable	4
Polarized retro -reflective laser	OSM48-RPLC2B6Q12.1	20m ²⁾ (adjustable)	Red laser	2800Hz	PNP/NPN	Light on/ dark on	M12 connector	3
	OSM48-RPLC2B6	20m ²⁾ (adjustable)	Red laser	2800Hz	PNP/NPN	Light on/ dark on	2m cable	3
1) with reflector RB50X50-1 2) with reflector RB100X100								
Enhanced diffused	OSM48-K800V2B6Q12.1	800mm(adjustable)	Red	1500Hz	2xPush-Pull	Light on/ dark on	M12 connector	4
	OSM48-K800V2B6	800mm(adjustable)	Red	1500Hz	2xPush-Pull	Light on/ dark on	2m cable	4
Foreground suppression	OSM48-AK250V2B6Q12.1	250mm(adjustable)	Red	1000Hz	2xPush-Pull	Light on/ dark on	M12 connector	4
	OSM48-AK250V2B6	250mm(adjustable)	Red	1000Hz	2xPush-Pull	Light on/ dark on	2m cable	4
Background suppression	OSM48-AK400V2B6Q12.1	400mm(adjustable)	Red	1000Hz	2xPush-Pull	Light on/ dark on	M12 connector	4
	OSM48-AK400V2B6	400mm(adjustable)	Red	1000Hz	2xPush-Pull	Light on/ dark on	2m cable	4
Background suppression laser	OSM48-AKL400V2B6Q12.1	400mm(adjustable)	Red laser	2000Hz	2xPush-Pull	Light on/ dark on	M12 connector	4
	OSM48-AKL400L2B6	400mm(adjustable)	Red laser	2000Hz	PNP/NPN	Light on	2m cable	5

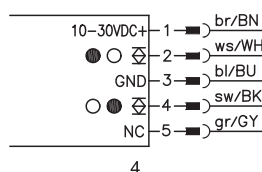
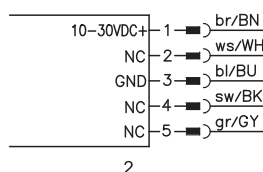
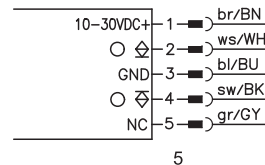
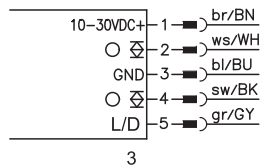
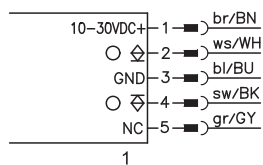
Technical Data

Operating voltage	10...30VDC
Ripple voltage	≤15% U _B
No-load current	≤35mA
High/low level signal	≥(U _B -2V)/≤2V
Yellow LED	switching output
Yellow LED flashing	No signal redundancy
Housing	Metal
Optical face	plastic
Weight (plug/cable)	70g/140g
Ambient temperature	-40°C...+60°C
Laser	-10°C...+40°C
VDE safe degree	II, all insulation
Protection degree	IP67
Standard applied	IEC60947-5-2

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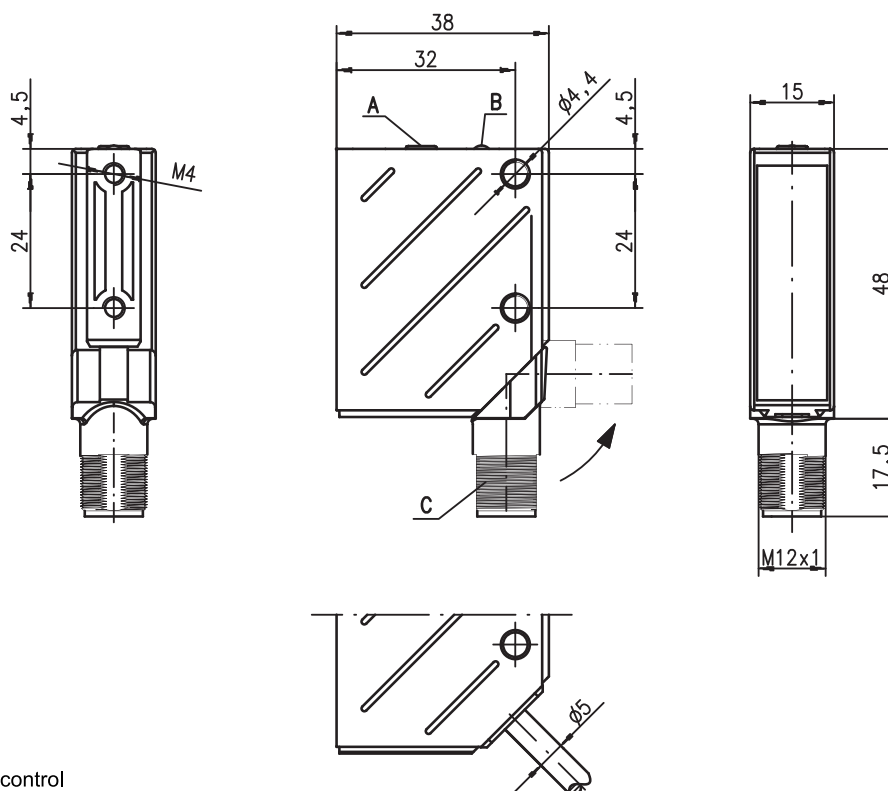
Compact-OSM48

Electrical Connection



Dimensions

OSM48 Series



- A operational control
- B LED
- C 90°turning connector