

Photoelectric Sensors—Compact-OG18



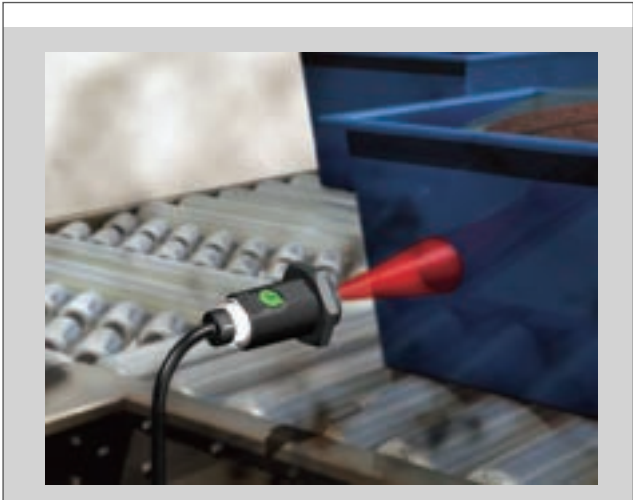
Description:

M18 barrel mounting mode, length 40mm, according to the needs of use, can provide red, infrared opposed products. Suitable for logistics transportation, gates, packaging and AGV.

Features:

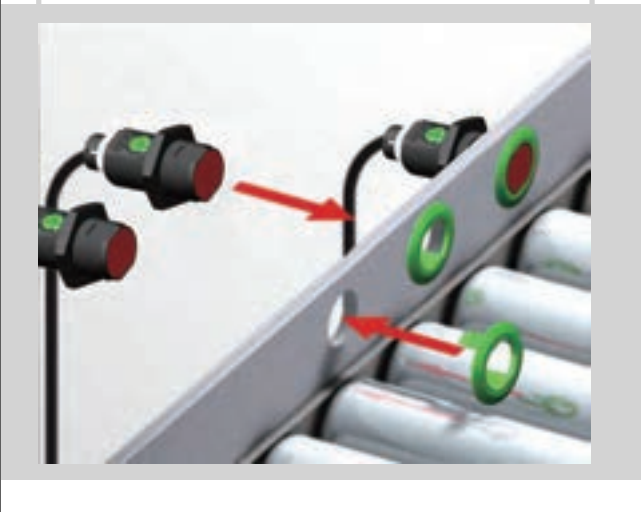
- Compact size
- Long sensing range
- Visible red LED light source

Sensor function description:



The embedded mounting bracket accessory enables the sensor to be flush mounted on the surface of the equipment, saving mounting time and reducing occupancy space

Clear and bright red LED visible light source, clear illumination position and long-distance position detection, suitable for various equipment applications



Type:

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OG18-S6 (emitter)	30m	Infrared	— —	— —	— —	2m cable	Fig. 1
	OG18-ECP6 (receiver)		— —	800Hz	PNP	Light-on / Dark-on	2m cable	Fig. 3
	OG18-ECN6 (receiver)		— —	800Hz	NPN	Light-on / Dark-on	2m cable	Fig. 2
	OG18-S6Q (emitter)	30m	Infrared	— —	— —	— —	M12 connector	Fig. 6
	OG18-ECP6Q (receiver)		— —	800Hz	PNP	Light-on / Dark-on	M12 connector	Fig. 8
	OG18-ECN6Q (receiver)		— —	800Hz	NPN	Light-on / Dark-on	M12 connector	Fig. 7
Retro-reflective	OG18-RCP6	4m	Red	800Hz	PNP	Light-on / Dark-on	2m cable	Fig. 3
	OG18-RCN6	4m	Red	800Hz	NPN	Light-on / Dark-on	2m cable	Fig. 2
	OG18-RCP6Q	4m	Red	800Hz	PNP	Light-on / Dark-on	M12 connector	Fig. 8
	OG18-RCN6Q	4m	Red	800Hz	NPN	Light-on / Dark-on	M12 connector	Fig. 7
Polarized retro-reflective	OG18-RPCP6	4m	Red	800Hz	PNP	Light-on / Dark-on	2m cable	Fig. 3
	OG18-RPCN6	4m	Red	800Hz	NPN	Light-on / Dark-on	2m cable	Fig. 2
	OG18-RPCP6Q	4m	Red	800Hz	PNP	Light-on / Dark-on	M12 connector	Fig. 8
	OG18-RPCN6Q	4m	Red	800Hz	NPN	Light-on / Dark-on	M12 connector	Fig. 7
Diffused	OG18-K200CP6	200mm	Red	800Hz	PNP	Light-on / Dark-on	2m cable	Fig. 3
	OG18-K200CN6	200mm	Red	800Hz	NPN	Light-on / Dark-on	2m cable	Fig. 2
	OG18-K200CP6Q	200mm	Red	800Hz	PNP	Light-on / Dark-on	M12 connector	Fig. 8
	OG18-K200CN6Q	200mm	Red	800Hz	NPN	Light-on / Dark-on	M12 connector	Fig. 7
	OG18-K400CP6	400mm	Red	800Hz	PNP	Light-on / Dark-on	2m cable	Fig. 3
	OG18-K400CN6	400mm	Red	800Hz	NPN	Light-on / Dark-on	2m cable	Fig. 2
	OG18-K400CP6Q	400mm	Red	800Hz	PNP	Light-on / Dark-on	M12 connector	Fig. 8
	OG18-K400CN6Q	400mm	Red	800Hz	NPN	Light-on / Dark-on	M12 connector	Fig. 7
	OG18-K600CP6	600mm	Red	800Hz	PNP	Light-on / Dark-on	2m cable	Fig. 3
	OG18-K600CN6	600mm	Red	800Hz	NPN	Light-on / Dark-on	2m cable	Fig. 2
	OG18-K600CP6Q	600mm	Red	800Hz	PNP	Light-on / Dark-on	M12 connector	Fig. 8
	OG18-K600CN6Q	600mm	Red	800Hz	NPN	Light-on / Dark-on	M12 connector	Fig. 7
Fixed distance BGS	OG18-AK50VP6	5...50mm	Red	800Hz	PNP	NO+NC	2m cable	Fig. 4
	OG18-AK50VN6	5...50mm	Red	800Hz	NPN	NO+NC	2m cable	Fig. 5
	OG18-AK50VP6Q	5...50mm	Red	800Hz	PNP	NO+NC	M12 connector	Fig. 9
	OG18-AK50VN6Q	5...50mm	Red	800Hz	NPN	NO+NC	M12 connector	Fig. 10
	OG18-AK100VP6	8...100mm	Red	800Hz	PNP	NO+NC	2m cable	Fig. 4
	OG18-AK100VN6	8...100mm	Red	800Hz	NPN	NO+NC	2m cable	Fig. 5
	OG18-AK100VP6Q	8...100mm	Red	800Hz	PNP	NO+NC	M12 connector	Fig. 9
	OG18-AK100VN6Q	8...100mm	Red	800Hz	NPN	NO+NC	M12 connector	Fig. 10
	OG18-AK150VP6	10...150mm	Red	800Hz	PNP	NO+NC	2m cable	Fig. 4
	OG18-AK150VN6	10...150mm	Red	800Hz	NPN	NO+NC	2m cable	Fig. 5
	OG18-AK150VP6Q	10...150mm	Red	800Hz	PNP	NO+NC	M12 connector	Fig. 9
	OG18-AK150VN6Q	10...150mm	Red	800Hz	NPN	NO+NC	M12 connector	Fig. 10
	OG18-AK200VP6	10...200mm	Red	800Hz	PNP	NO+NC	2m cable	Fig. 4
	OG18-AK200VN6	10...200mm	Red	800Hz	NPN	NO+NC	2m cable	Fig. 5
	OG18-AK200VP6Q	10...200mm	Red	800Hz	PNP	NO+NC	M12 connector	Fig. 9
	OG18-AK200VN6Q	10...200mm	Red	800Hz	NPN	NO+NC	M12 connector	Fig. 10

Photoelectric Sensors—Compact-OG18

Technical Data:

Operating voltage	10...30VDC
Ripple voltage	≤10%
No-load current	Opposed: ≤25mA; Others: ≤15mA
Load current	≤200mA
Black and white attenuation	< 3mm(AK50); < 10mm(AK100); < 18mm(AK150); < 23mm(AK200)
Spot size	5mm(AK50); 8mm(AK100); 11mm(AK150); 15mm(AK200);
Protective circuit	Reverse polarity protection, short circuit protection, overload protection
Sensitivity	Adjustable, with single-turn knob. Fixed distance products are not adjustable.
Output indicator	Red LED
Steady state indicator	Green LED
Ambient temperature	-25...55°C
Storage temperature	-40...70°C
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
Housing material	PBT+ABS

Wiring:

Pre-wired cable

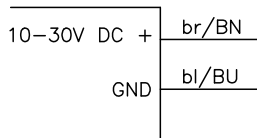


Fig. 1

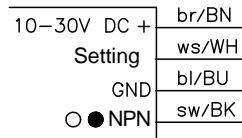


Fig. 2

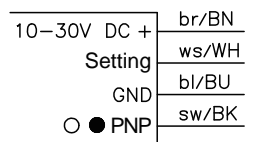


Fig. 3

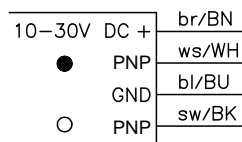


Fig. 4

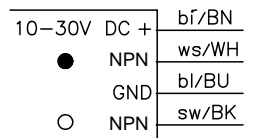


Fig. 5

M12 connector

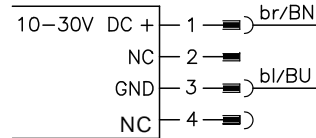


Fig. 6

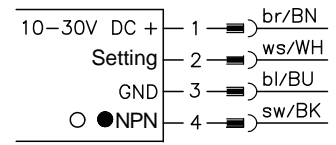


Fig. 7

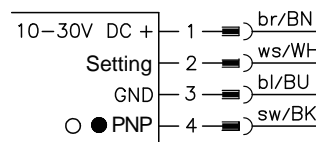


Fig. 8

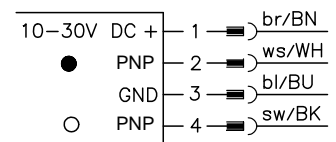


Fig. 9

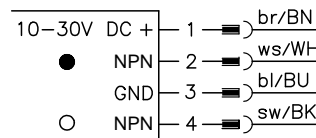
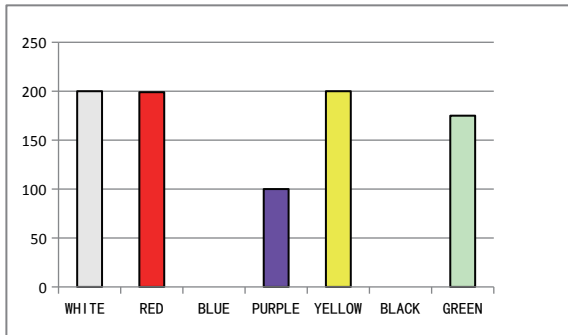


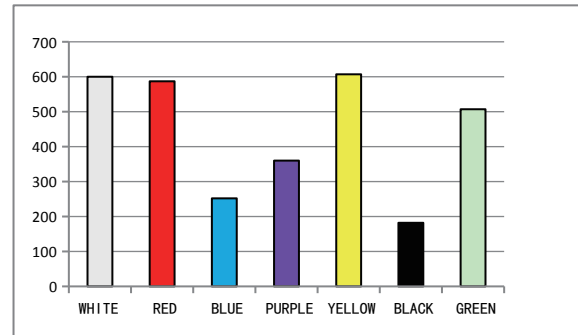
Fig. 10

Attenuation figure:

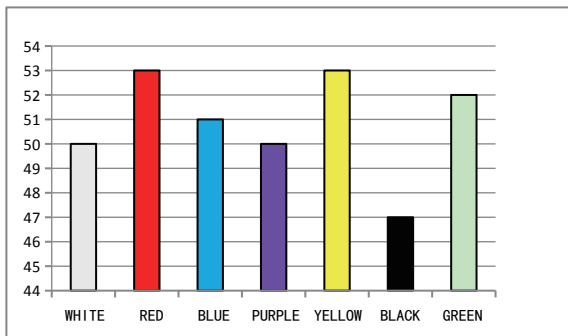
OG18-K200



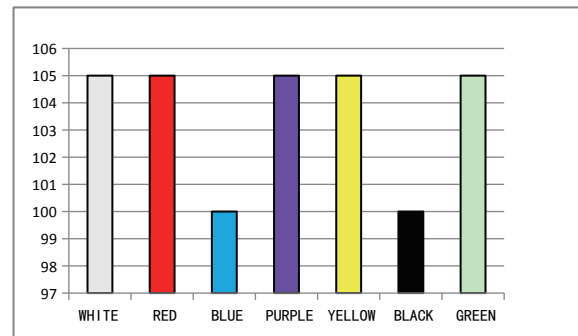
OG18-K600



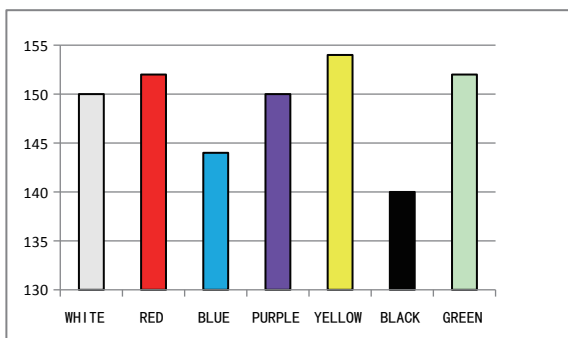
OG18-AK50



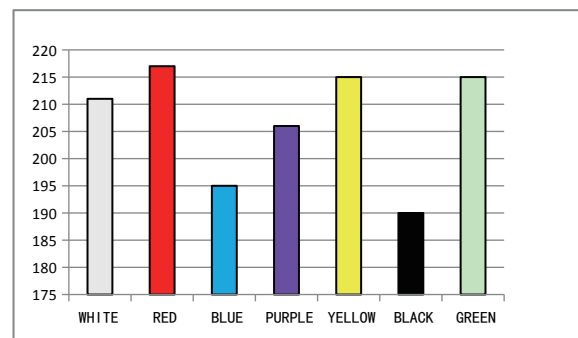
OG18-AK100



OG18-AK150

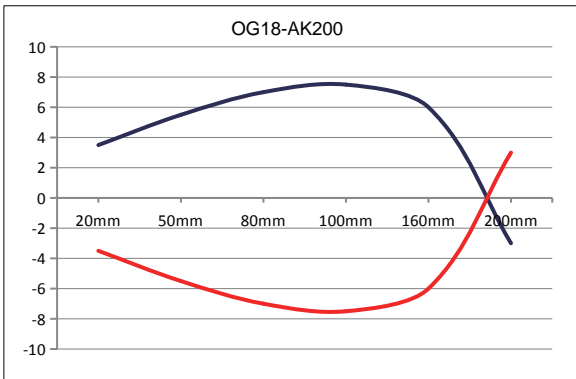
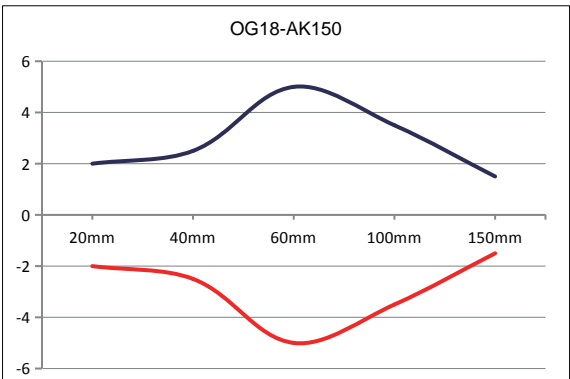
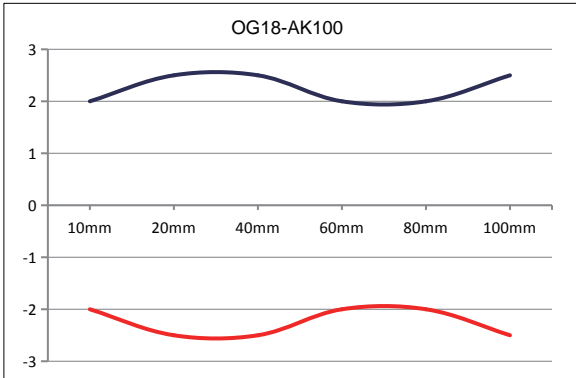
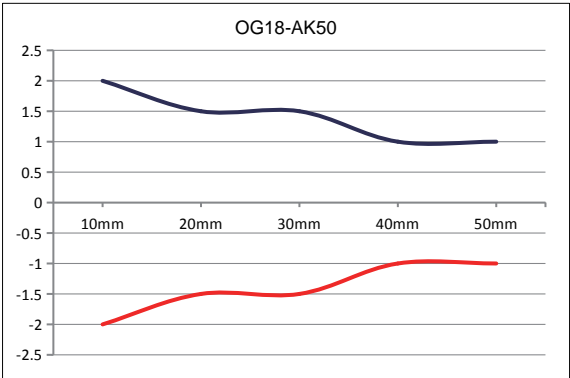
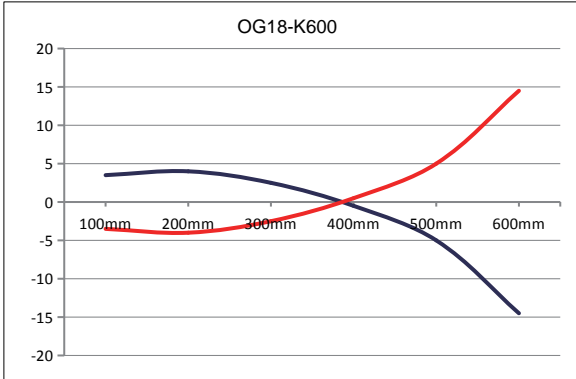
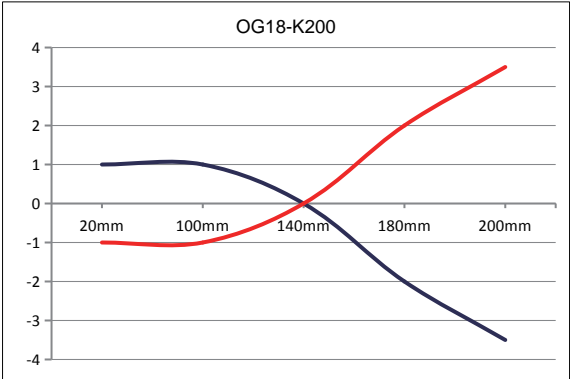
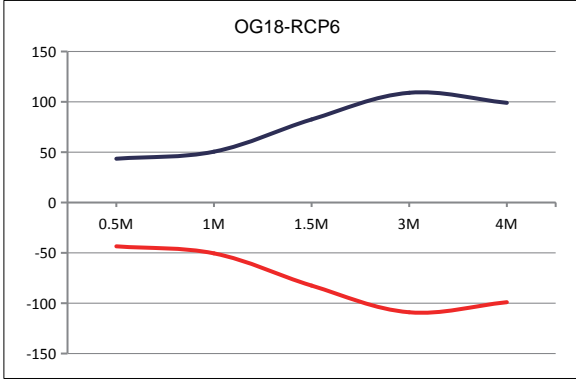
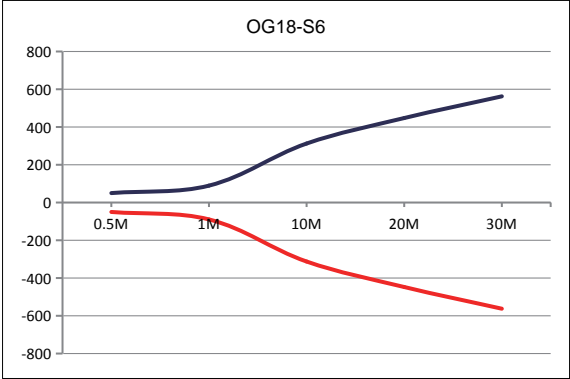


OG18-AK200



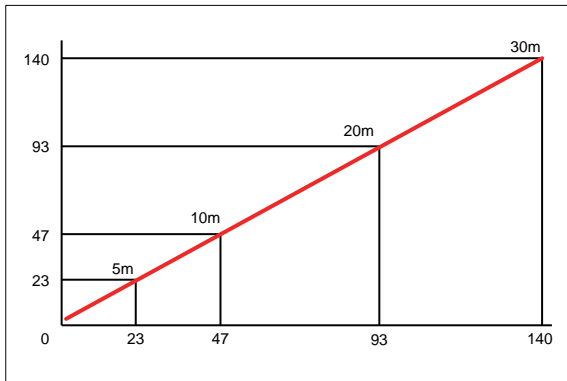
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Translation characteristic curve:

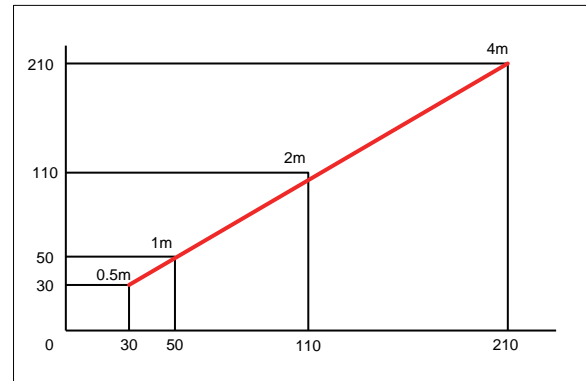


Beam Pattern :

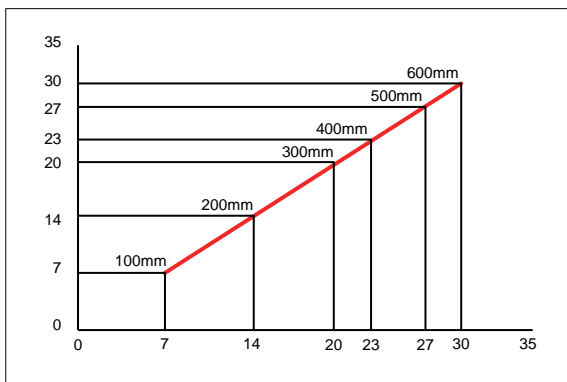
OG18-S6 (cm)



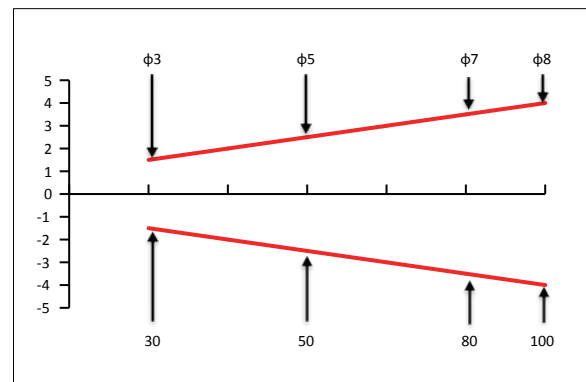
OG18-RP/R (mm)



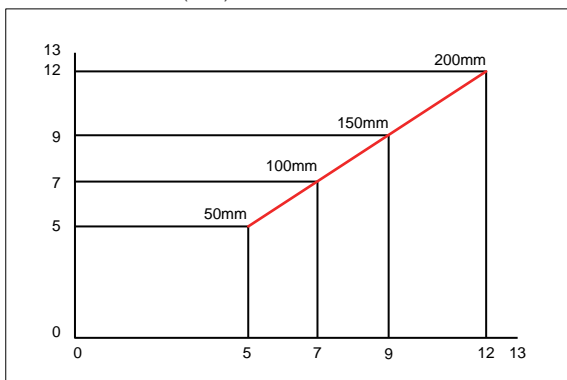
OG18-K (mm)



OG18-AK50/100 (mm)

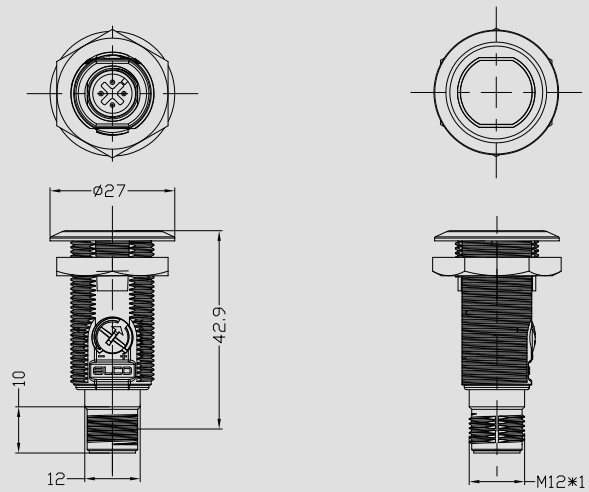


OG18-AK150/200 (mm)

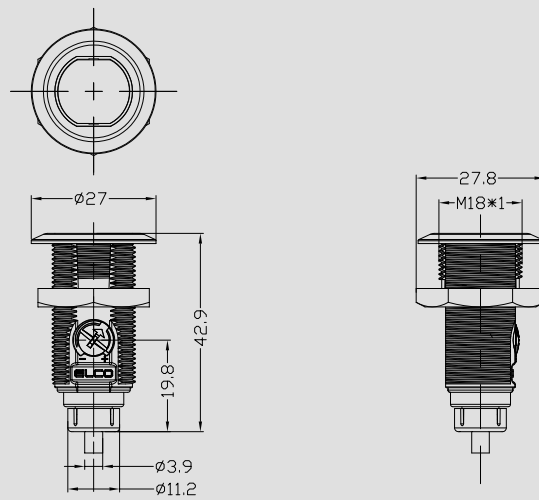


Dimensions:

M12 connector

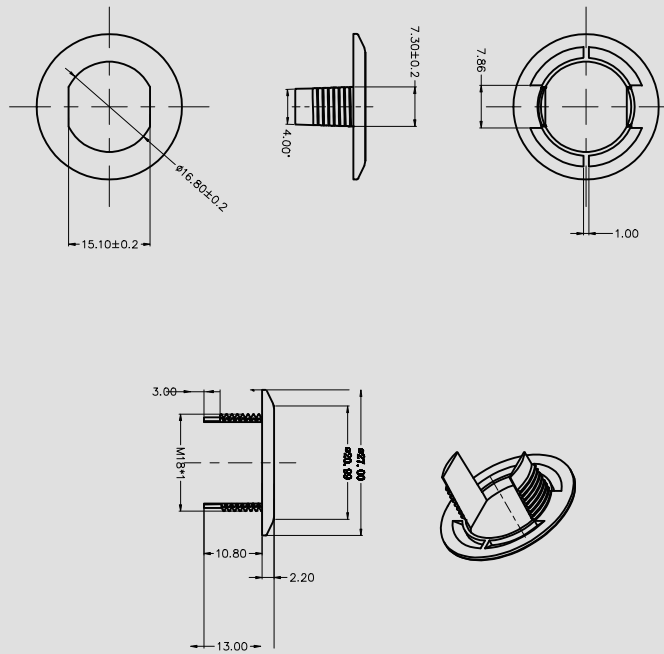


2m cable



Mounting bracket (standard):

EOG18-1



Reflector (optional):

RB50x50-1

