



Description

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

Features

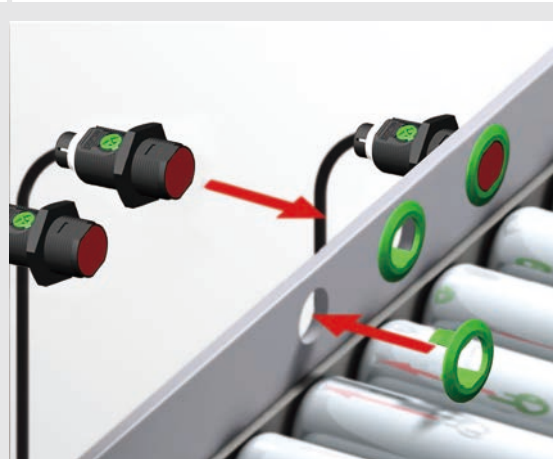
- Compact size
- Long sensing range
- Visible red LED light source

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



Photoelectric Sensors - Compact OG18



Type

The detection distance corresponds to the reflector RB50*50-1 (purchased separately)

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

Technical Data

Operating voltage	10 ... 30 V DC
Ripple voltage	≤ 10%
Light source	650 nm
No-load current	Opposed: ≤ 25 mA; Others: ≤ 15 mA
Load current	≤ 200 mA
Black and white attenuation	< 3 mm (AK50); < 10 mm (AK100); < 18 mm (AK150); < 23 mm (AK200)
Spot size	5 mm (AK50); 8 mm (AK100); 11 mm (AK150); 15 mm (AK200)
Protective circuit	Reverse polarity protection, short circuit protection, overload protection
Sensitivity	Adjustable, with single-turn knob. Fixed distance products are not adjustable.
Ambient temperature	-25 ... +55 °C
Storage temperature	-40 ... +70 °C
Operating environment humidity	35% to 85%RH (no condensation)
Voltage resistance	1000 V/AC 50/60 Hz 60 s
Insulation impedance	≥ 50 MΩ (500 V DC)
Shock resistance	Complex amplitude 1.5 mm 10 ... 50 Hz (2hr X, Y, Z respectively)
Impact resistance	500 m/s ² (50 G) 3 times X, Y, Z respectively
Protection class	IP67
Housing material	PBT + ABS

Wiring

Pre-wired cable

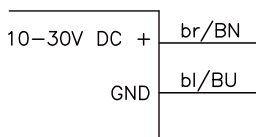


Fig. 1

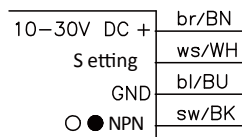


Fig. 2

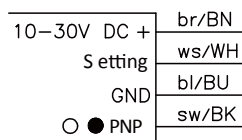


Fig. 3

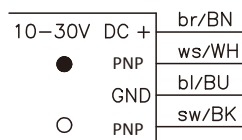


Fig. 4

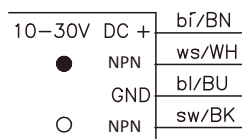


Fig. 5

M12 connector

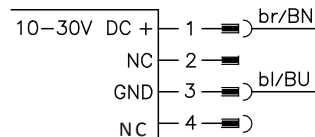


Fig. 6

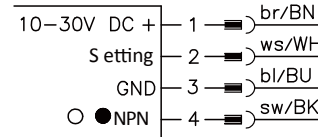


Fig. 7

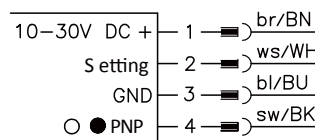


Fig. 8

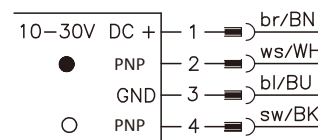


Fig. 9

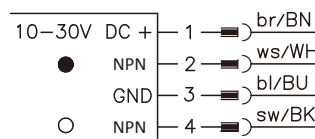
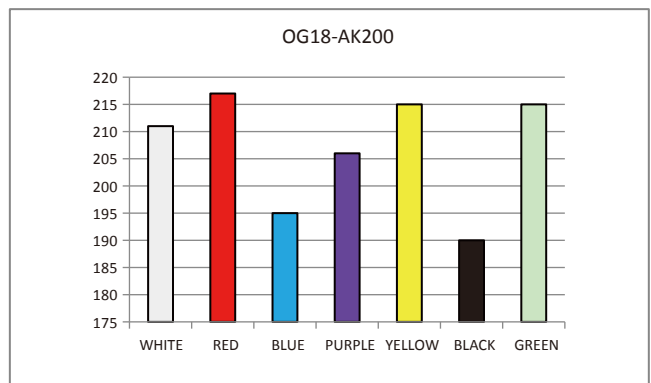
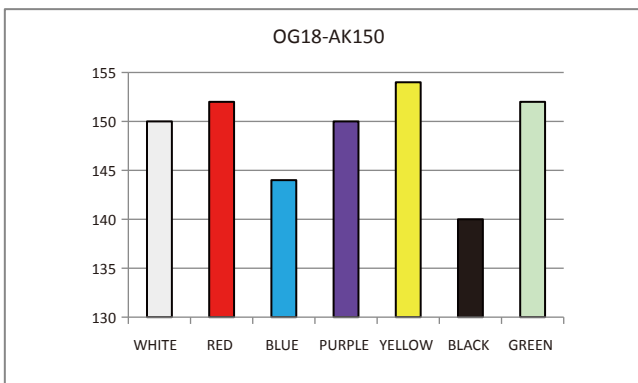
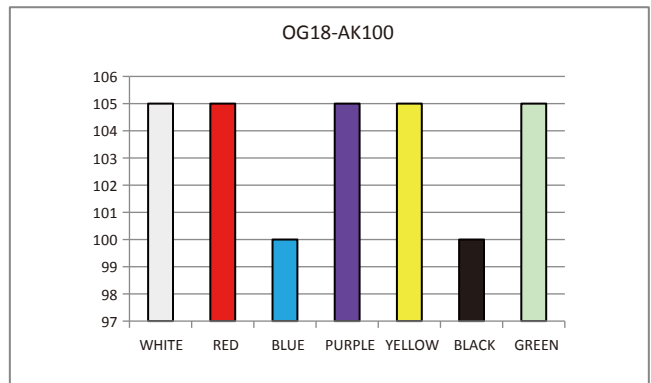
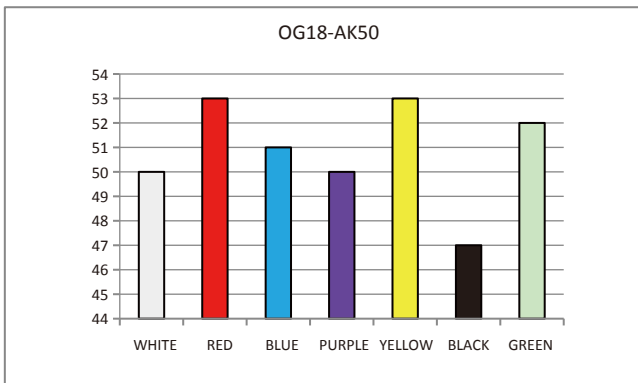
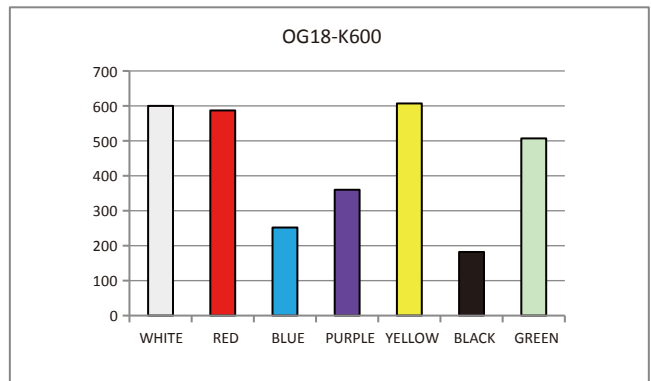
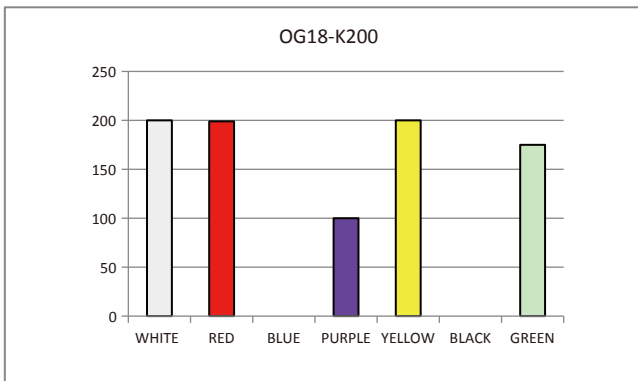
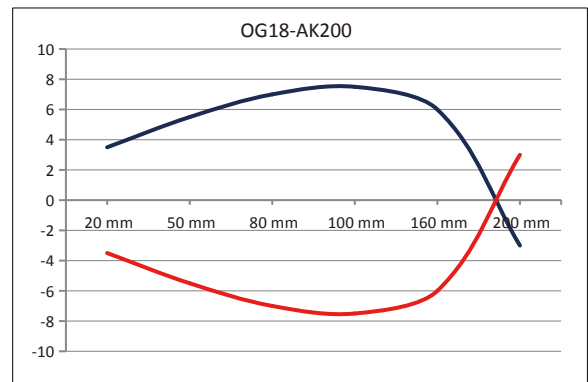
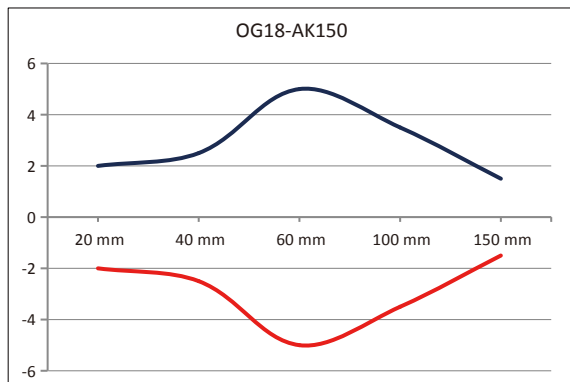
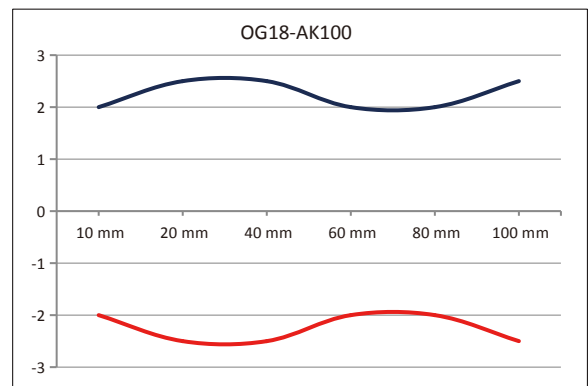
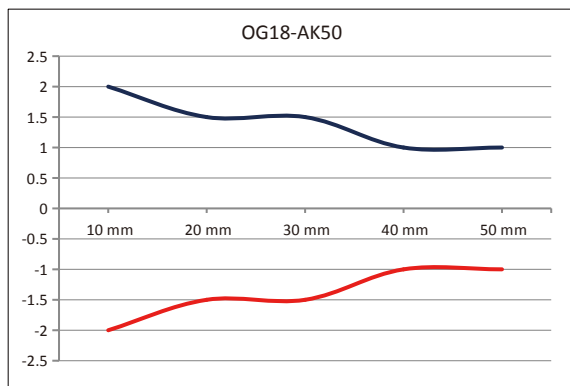
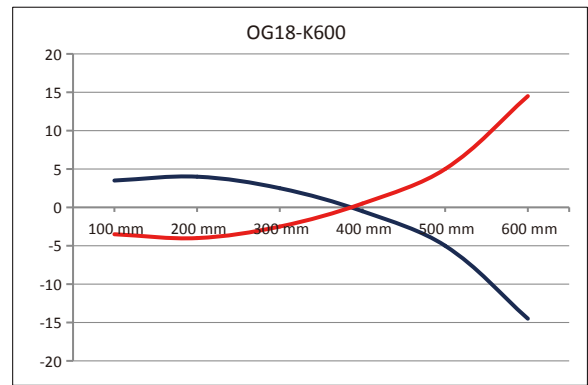
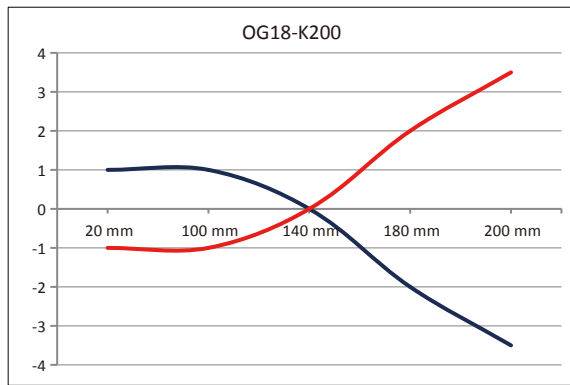
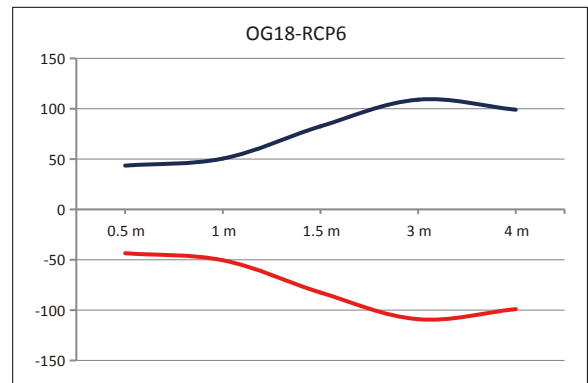
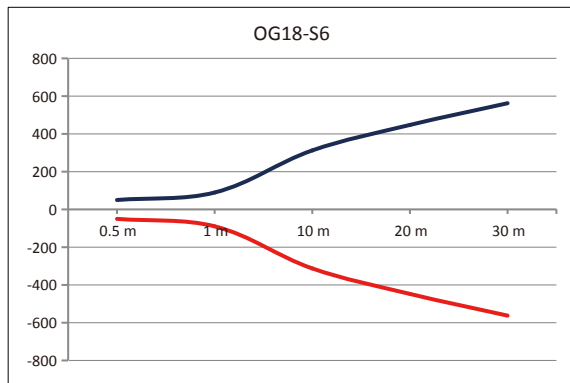


Fig. 10

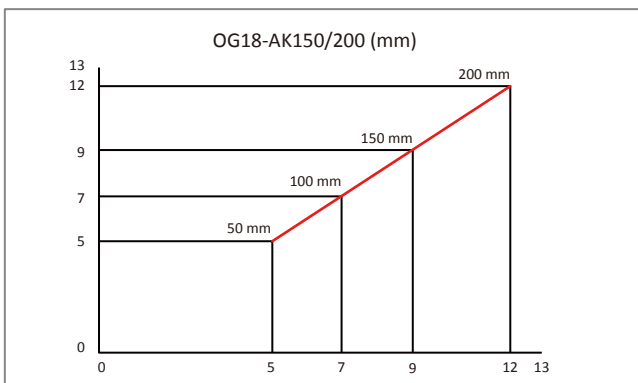
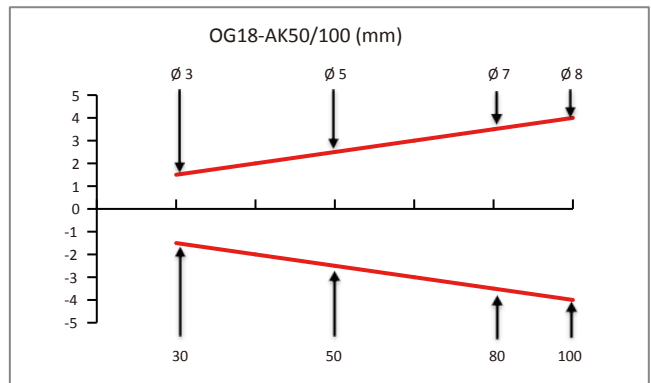
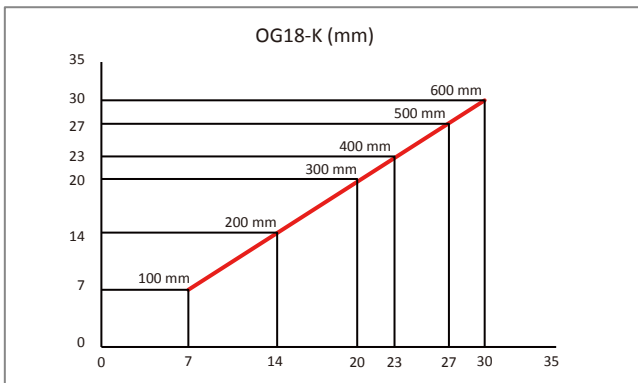
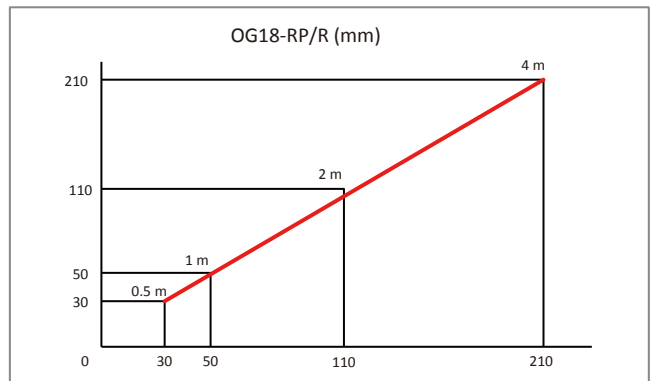
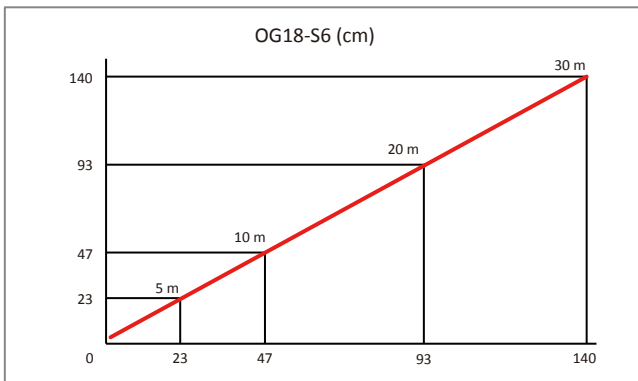
Attenuation Figure



Translation Characteristic Curve

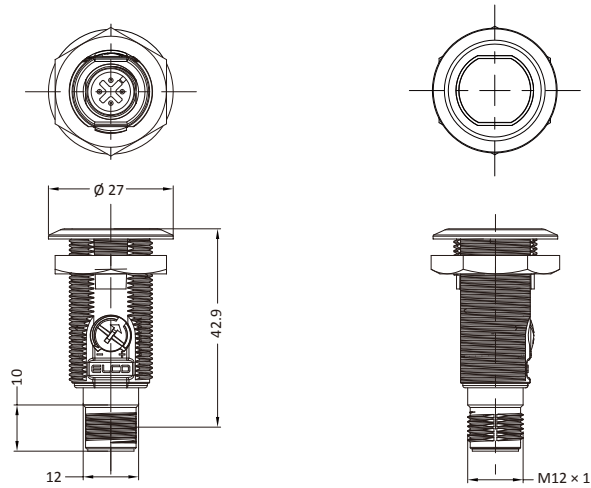


Beam Pattern

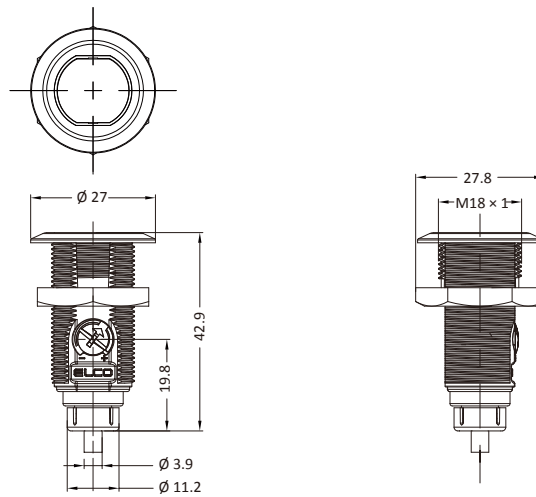


Dimensions

M12 connector

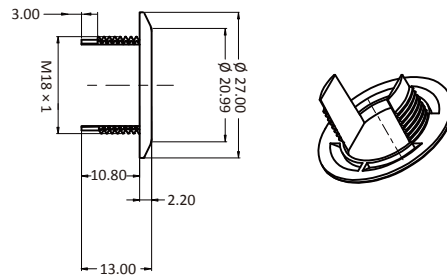
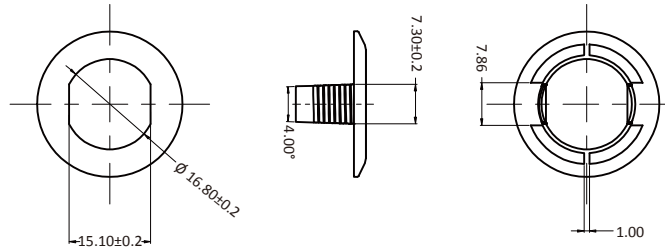


2 m cable



Mounting Bracket (Standard)

EOG18-1



Reflector (Optional)

RB50x50-1

