



Description

M18 barrel mounting mode, high cost-effective, OEM variations are optional. Suitable for logistics transportation, textile, garage, electronic industry.

Features

- General mounting mode
- Bright status indicator

Type

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OP18-S6 (emitter)	10 m	Infrared	— —	— —	— —	2 m cable	Fig. 1
	OP18-EVP6 (receiver)		— —	100 Hz	PNP	NO + NC	2 m cable	Fig. 7
	OP18-EVN6 (receiver)		— —	100 Hz	NPN	NO + NC	2 m cable	Fig. 8
	OP18-S6Q (emitter)	10 m	Infrared	— —	— —	— —	M12 connector	Fig. 2
	OP18-EVP6Q (receiver)		— —	100 Hz	PNP	NO + NC	M12 connector	Fig. 9
	OP18-EVN6Q (receiver)		— —	100 Hz	NPN	NO + NC	M12 connector	Fig. 10

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

Retro-reflective	OP18-RVP6	3 m	Infrared	100 Hz	PNP	NO + NC	2 m cable	Fig. 3
	OP18-RVN6	3 m	Infrared	100 Hz	NPN	NO + NC	2 m cable	Fig. 4
	OP18-RVP6Q	3 m	Infrared	100 Hz	PNP	NO + NC	M12 connector	Fig. 5
	OP18-RVN6Q	3 m	Infrared	100 Hz	NPN	NO + NC	M12 connector	Fig. 6
Polarized retro-reflective	OP18-RPVP6	3 m	Red	800 Hz	PNP	NO + NC	2 m cable	Fig. 3
	OP18-RPVN6	3 m	Red	800 Hz	NPN	NO + NC	2 m cable	Fig. 4
	OP18-RPVP6Q	3 m	Red	800 Hz	PNP	NO + NC	M12 connector	Fig. 5
	OP18-RPVN6Q	3 m	Red	800 Hz	NPN	NO + NC	M12 connector	Fig. 6

Type

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Diffused	OP18-K100VP6	100 mm	Infrared	100 Hz	PNP	NO + NC	2 m cable	Fig. 3
	OP18-K100VN6	100 mm	Infrared	100 Hz	NPN	NO + NC	2 m cable	Fig. 4
	OP18-K100VP6Q	100 mm	Infrared	100 Hz	PNP	NO + NC	M12 connector	Fig. 5
	OP18-K100VN6Q	100 mm	Infrared	100 Hz	NPN	NO + NC	M12 connector	Fig. 6
	OP18-K200VP6	200 mm	Infrared	100 Hz	PNP	NO + NC	2 m cable	Fig. 3
	OP18-K200VN6	200 mm	Infrared	100 Hz	NPN	NO + NC	2 m cable	Fig. 4
	OP18-K200VP6Q	200 mm	Infrared	100 Hz	PNP	NO + NC	M12 connector	Fig. 5
	OP18-K200VN6Q	200 mm	Infrared	100 Hz	NPN	NO + NC	M12 connector	Fig. 6
	OP18-K400VP6	400 mm	Infrared	100 Hz	PNP	NO + NC	2 m cable	Fig. 3
	OP18-K400VN6	400 mm	Infrared	100 Hz	NPN	NO + NC	2 m cable	Fig. 4
	OP18-K400VP6Q	400 mm	Infrared	100 Hz	PNP	NO + NC	M12 connector	Fig. 5
	OP18-K400VN6Q	400 mm	Infrared	100 Hz	NPN	NO + NC	M12 connector	Fig. 6
	OP18-K600VP6	600 mm	Infrared	100 Hz	PNP	NO + NC	2 m cable	Fig. 3
	OP18-K600VN6	600 mm	Infrared	100 Hz	NPN	NO + NC	2 m cable	Fig. 4
	OP18-K600VP6Q	600 mm	Infrared	100 Hz	PNP	NO + NC	M12 connector	Fig. 5
	OP18-K600VN6Q	600 mm	Infrared	100 Hz	NPN	NO + NC	M12 connector	Fig. 6

Technical Data

Operating voltage	10 ... 30 V DC
Ripple voltage	≤ 10%
No-load current	Opposed: ≤ 25 mA; Others: ≤ 15 mA
Output current	≤ 100 mA
Protective circuit	Reverse polarity protection, short circuit protection, overload protection
Sensitivity	Adjustable, with single-turn knob
Ambient temperature	-25 ... +65 °C
Storage temperature	-40 ... +70 °C
Operating environment humidity	35% to 85%RH (no condensation)
Voltage withstanding	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	PC + PBT

Wiring

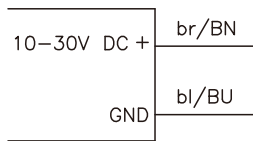


Fig. 1

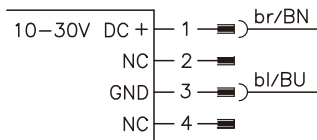


Fig. 2

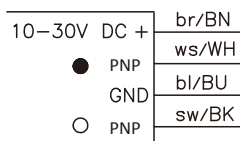


Fig. 3

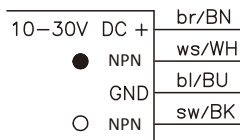


Fig. 4

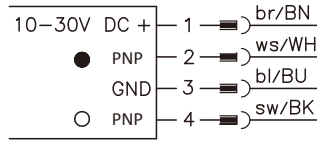


Fig. 5

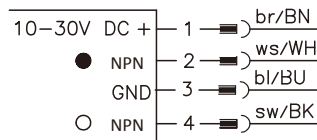


Fig. 6

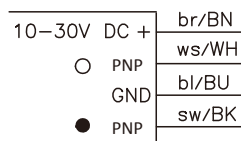


Fig. 7

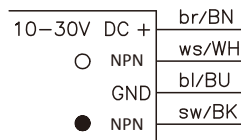


Fig. 8

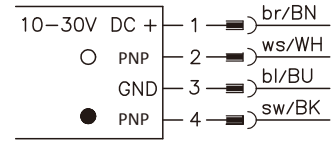


Fig. 9

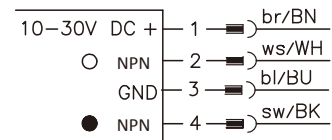
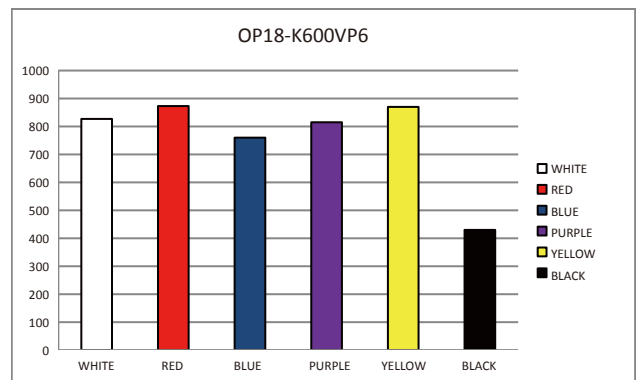
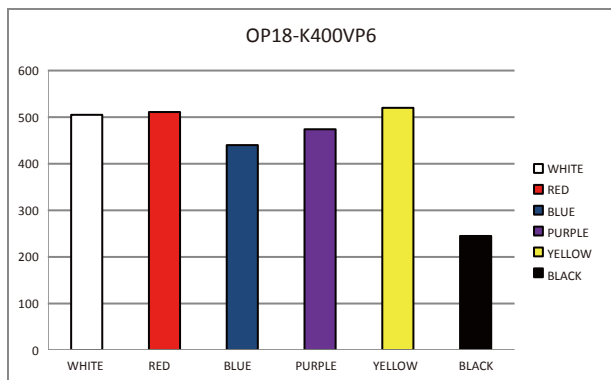
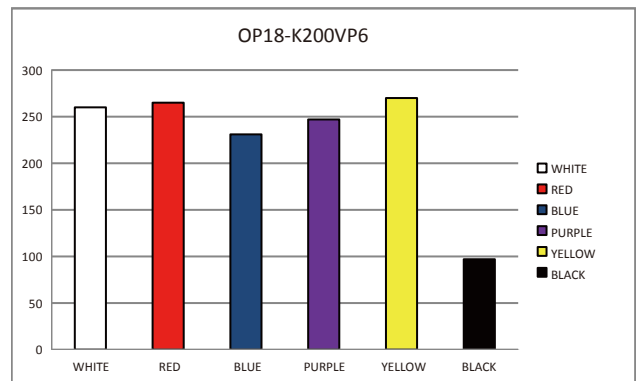
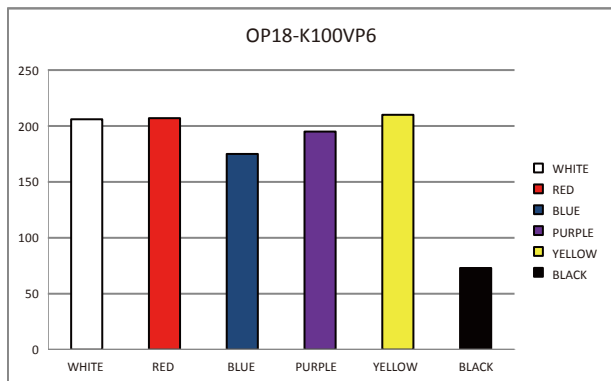
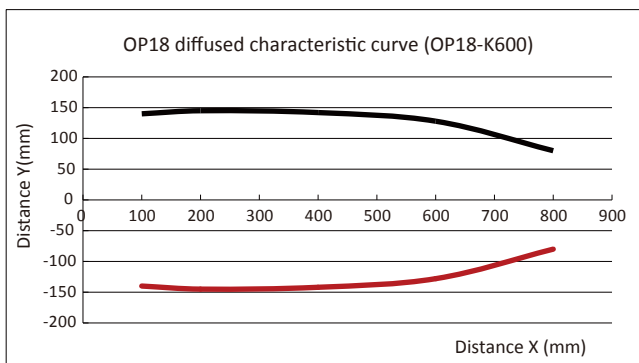
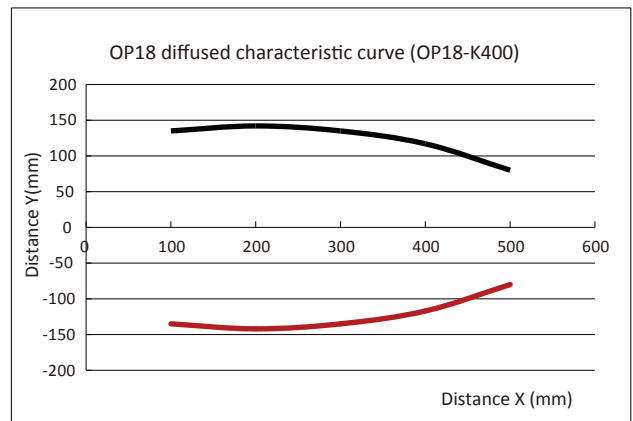
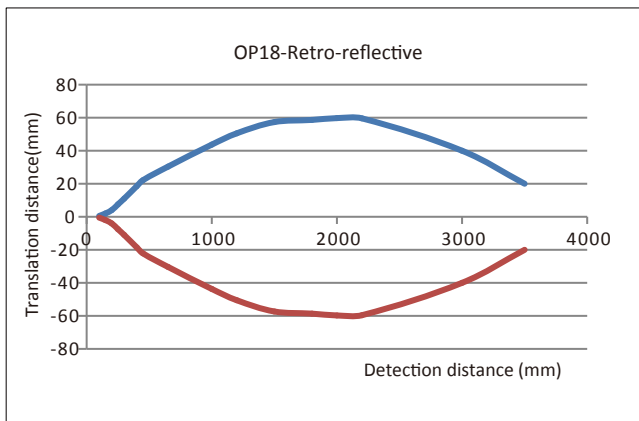
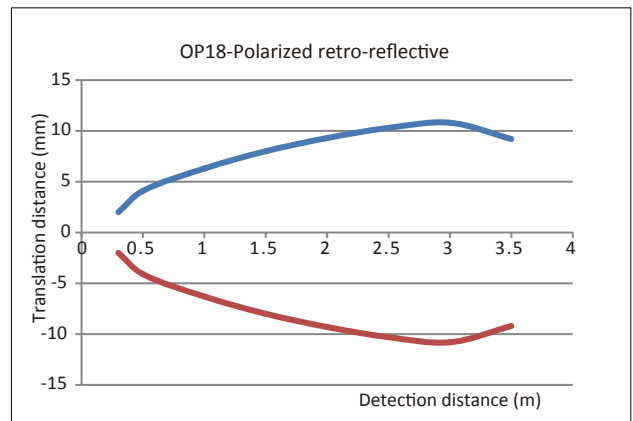
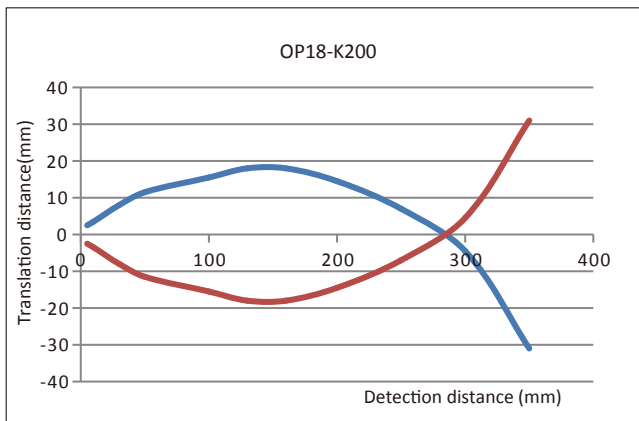
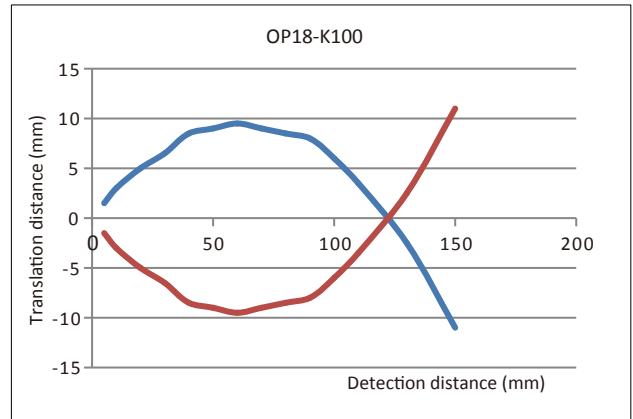
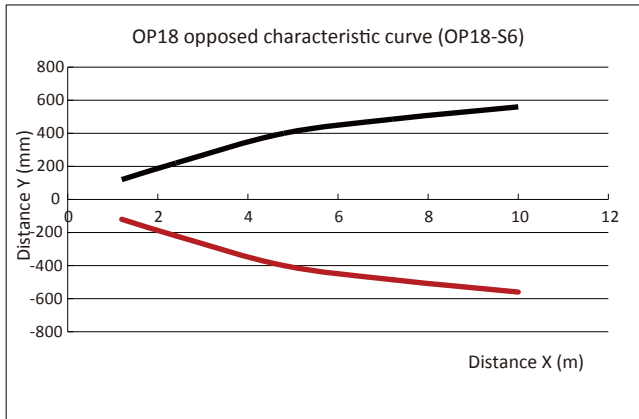


Fig. 10

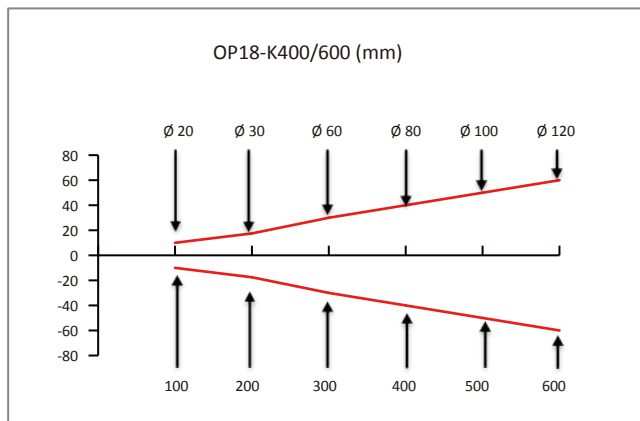
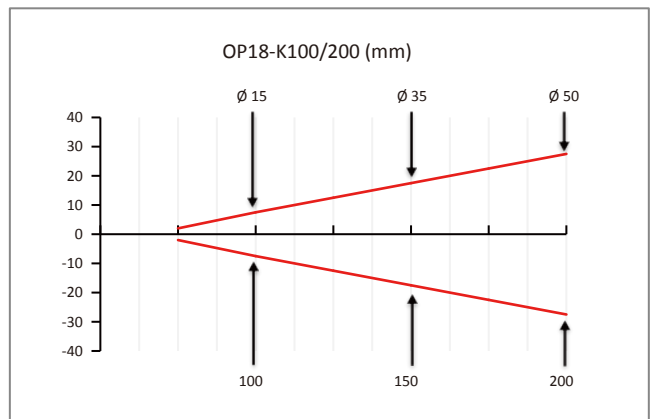
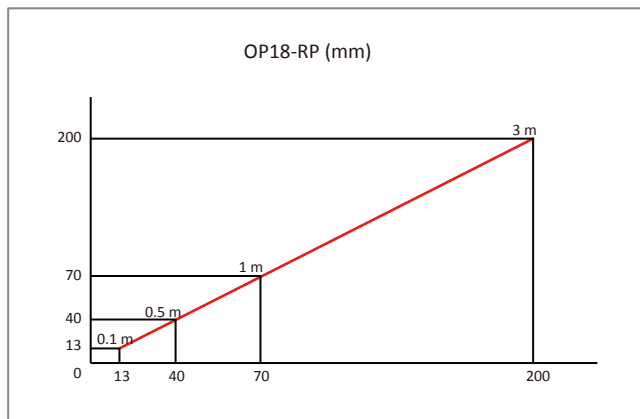
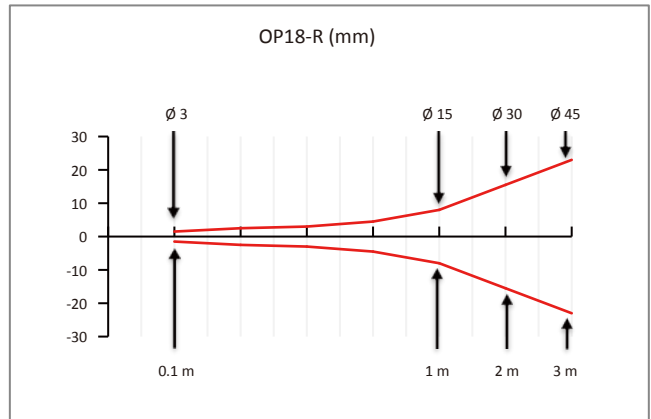
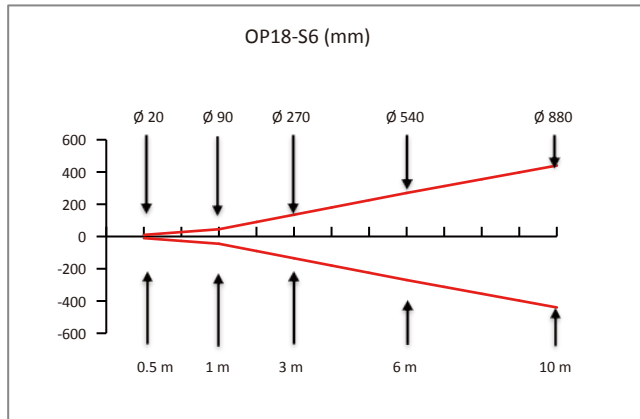
Attenuation Figure



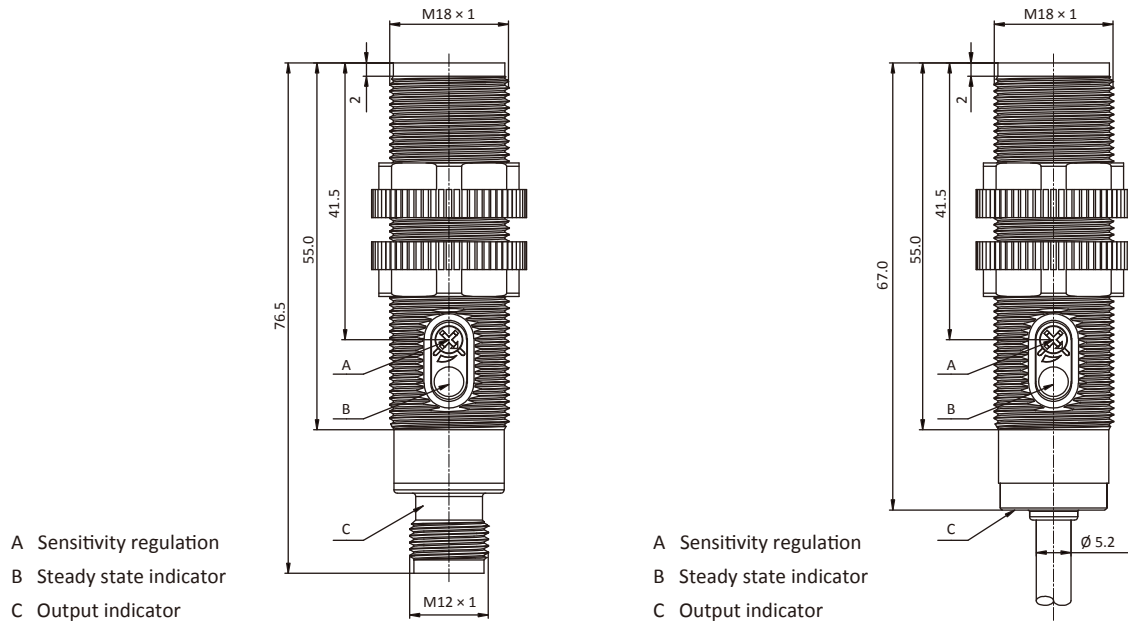
Translation Characteristic Curve



Beam Pattern



Dimensions



Reflector (Optional)

RB50x50-1

