

Photoelectric Sensors - Barrel OP18



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

Technical Data:

Operating voltage	10 ... 30 VDC
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
Output indicator	Red LED
Steady state indicator	Green LED
Ambient temperature	-25 ... 65 °C
Storage temperature	-40 ... 70 °C
Voltage withstanding	1000 V/AC 50/60Hz 60s
Insulation impedance	≥ 50 MΩ (500 VDC)
Shock resistance	Complex amplitude 1.5 mm 10 ... 50Hz (2hr X, Y,Z respectively)
Impact resistance	500m/S ² (50G) 3 times X, Y, Z respectively
Protection class	IP67
Housing material	PC+PBT

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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)

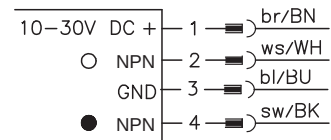
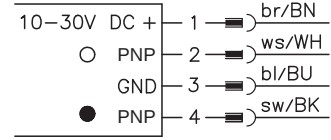
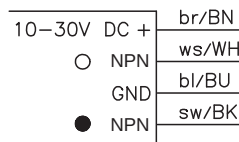
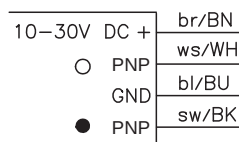
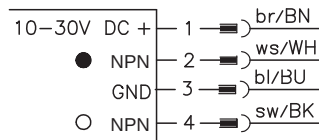
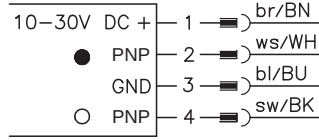
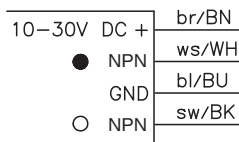
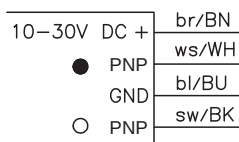
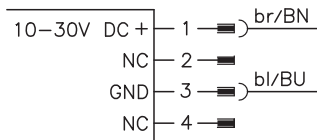
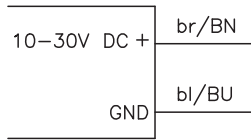
Retro-reflective	OP18-RVP6	3 m	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OP18-RVN6	3 m	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OP18-RVP6Q	3 m	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OP18-RVN6Q	3 m	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6
Polarized retro-reflective	OP18-RPVP6	3 m	Red	800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

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

Diffuse reflective vitreous body detect	OP18-TK50VP6	50mm	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OP18-TK50VN6	50mm	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OP18-TK50VP6Q	50mm	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OP18-TK50VN6Q	50mm	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6
	OP18-TK100VP6	100mm	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OP18-TK100VN6	100mm	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OP18-TK100VP6Q	100mm	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OP18-TK100VN6Q	100mm	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6

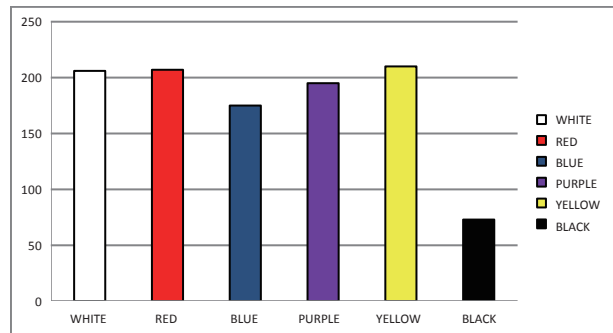
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Wiring:

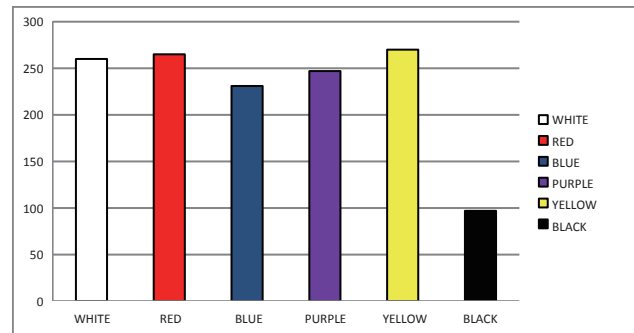


Attenuation figure

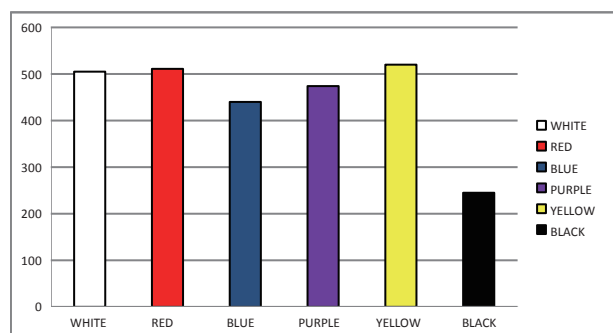
OP18-K100VP6



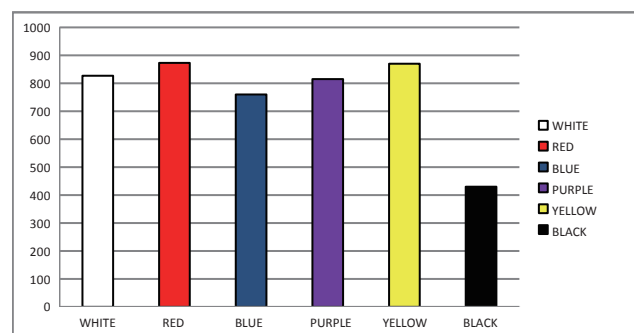
OP18-K200VP6



OP18-K400VP6

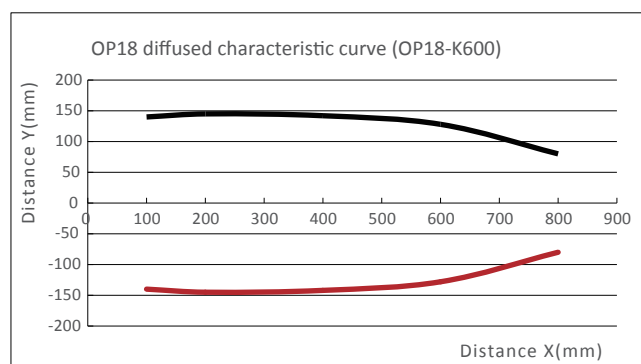
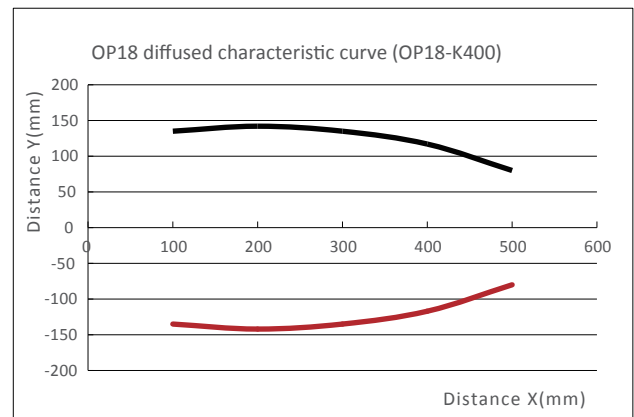
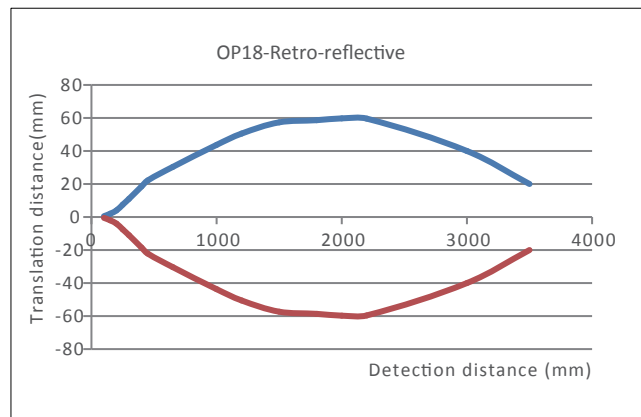
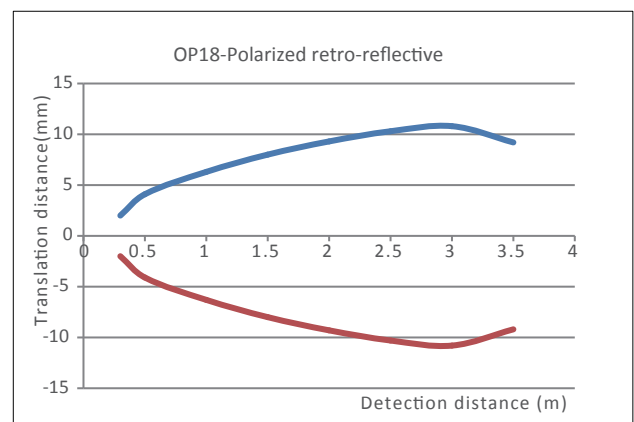
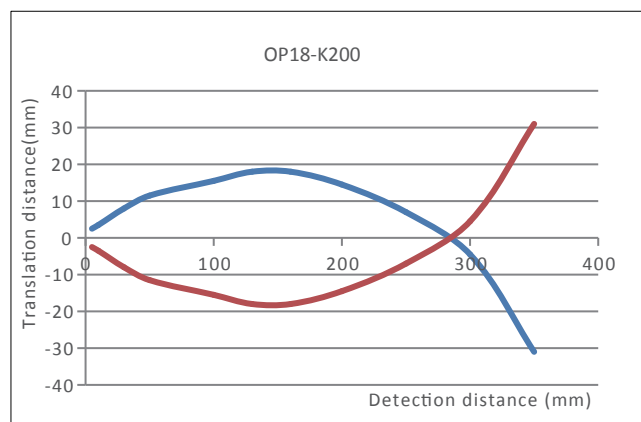
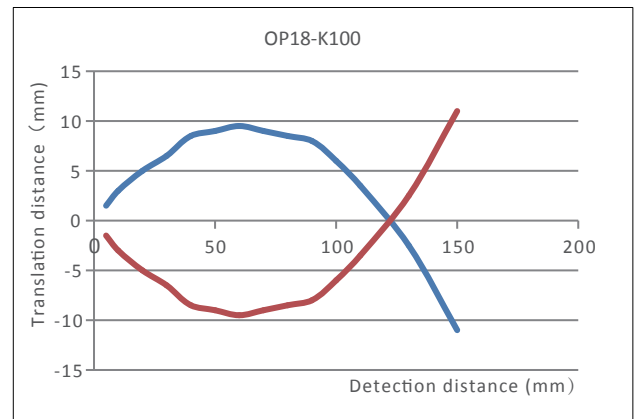
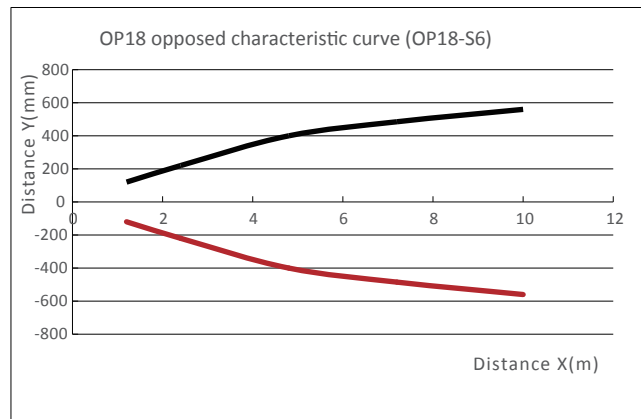


OP18-K600VP6



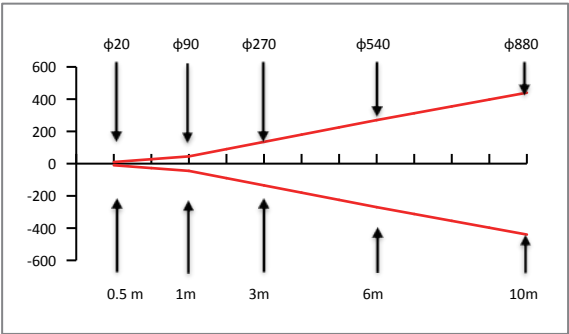
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Translation characteristic curve

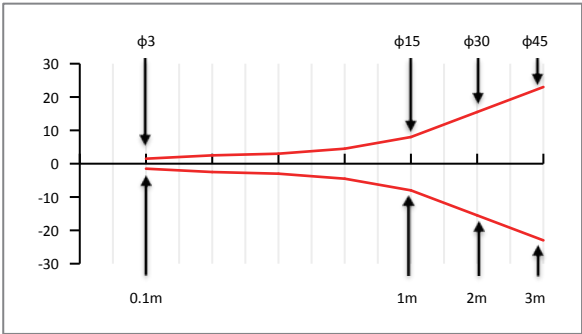


Beam Pattern :

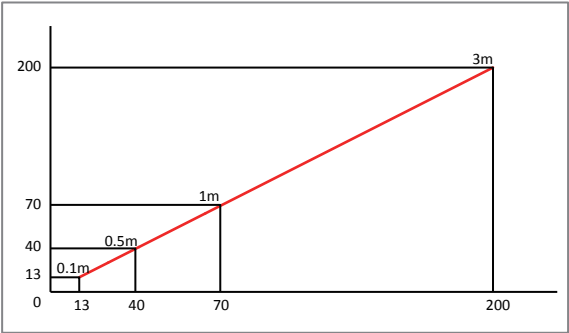
OP18-S6 (mm)



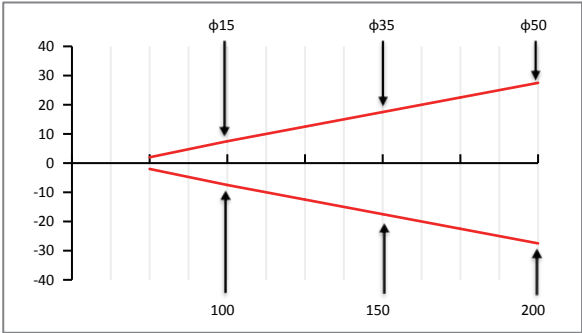
OP18-R (mm)



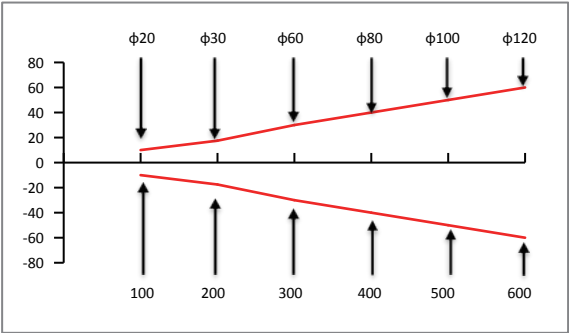
OP18-RP (mm)



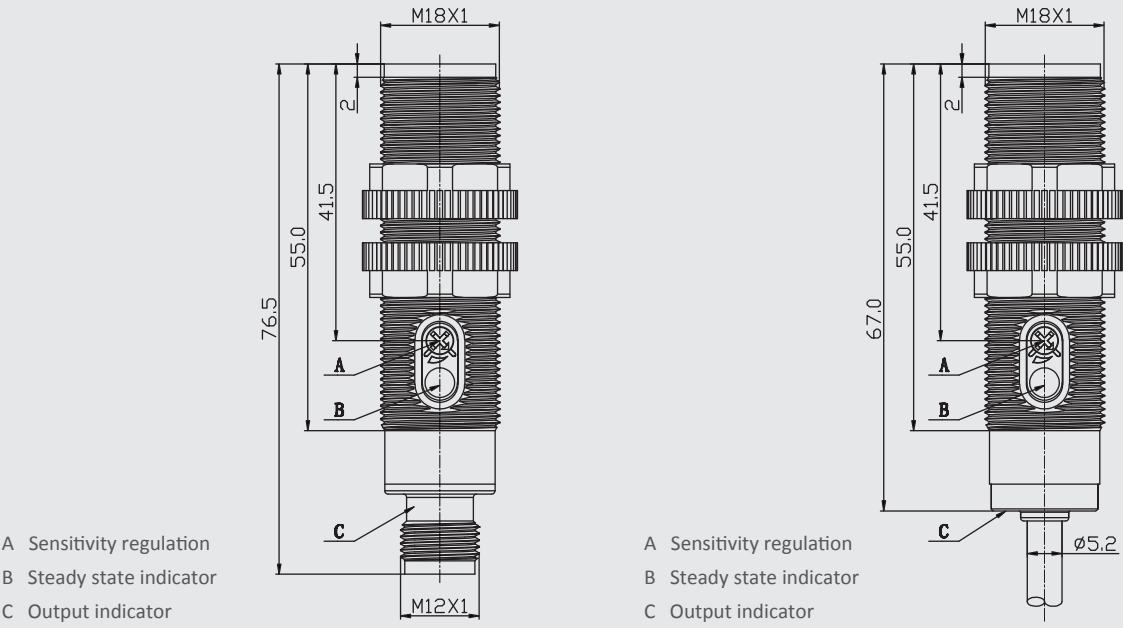
OP18-K100/200 (mm)



OP18-K400/600 (mm)



Dimensions:



Reflector (optional):

RB50x50-1

