

Photoelectric Sensors - Barrel OM18



Description:

M18 barrel mounting mode, metal housing.

Suitable for logistics transportation, food&beverage, printing, small equipment and others.

Features:

- Strong impact resistance
- 60m laser opposed

Technical Data:

Operating voltage	10 ... 30 VDC
Ripple voltage	≤ 10%
Light source	Red (650nm) / class 1 laser
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 resistance	1000 V/AC 50/60Hz 60s
Insulation impedance	≥ 50 MΩ (500 VDC)
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	Brass nickel-plated

Photoelectric Sensors - Barrel OM18

Type:

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OM18-S6(emitter)	10 m	Infrared	— —	— —	— —	2 m cable	Fig.1
	OM18-EVP6 (receiver)		— —	100 Hz	PNP	NO+NC	2 m cable	Fig.7
	OM18-EVN6 (receiver)		— —	100 Hz	NPN	NO+NC	2 m cable	Fig.8
	OM18-S6Q (emitter)	10 m	Infrared	— —	— —	— —	M12 connector	Fig.2
	OM18-EVP6Q (receiver)		— —	100 Hz	PNP	NO+NC	M12 connector	Fig.9
	OM18-EVN6Q (receiver)		— —	100 Hz	NPN	NO+NC	M12 connector	Fig.10
	OM18-SL306	30 m	laser	— —	— —	— —	2 m cable	Fig.1
	OM18-EL30VP6		laser	800 Hz	PNP	NO+NC	2 m cable	Fig.7
	OM18-EL30VN6		laser	800 Hz	NPN	NO+NC	2 m cable	Fig.8
	OM18-SL306Q	30 m	laser	— —	— —	— —	M12 connector	Fig.2
	OM18-EL30VP6Q		laser	800 Hz	PNP	NO+NC	M12 connector	Fig.9
	OM18-EL30VN6Q		laser	800 Hz	NPN	NO+NC	M12 connector	Fig.10
	OM18-SL606	60 m	laser	— —	— —	— —	2 m cable	Fig.1
	OM18-EL60VP6		laser	800 Hz	PNP	NO+NC	2 m cable	Fig.7
	OM18-EL60VN6		laser	800 Hz	NPN	NO+NC	2 m cable	Fig.8
	OM18-SL606Q	60 m	laser	— —	— —	— —	M12 connector	Fig.2
	OM18-EL60VP6Q		laser	800 Hz	PNP	NO+NC	M12 connector	Fig.9
	OM18-EL60VN6Q		laser	800 Hz	NPN	NO+NC	M12 connector	Fig.10

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

Retro-reflective	OM18-RVP6	3 m	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OM18-RVN6	3 m	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OM18-RVP6Q	3 m	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OM18-RVN6Q	3 m	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6
Polarized retro-reflective	OM18-RPVP6	3 m	Red	800 Hz	PNP	NO+NC	2 m cable	Fig.3
	OM18-RPVN6	3 m	Red	800 Hz	NPN	NO+NC	2 m cable	Fig.4
	OM18-RPVP6Q	3 m	Red	800 Hz	PNP	NO+NC	M12 connector	Fig.5
	OM18-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	OM18-K100VP6	100 mm	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OM18-K100VN6	100 mm	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OM18-K100VP6Q	100 mm	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OM18-K100VN6Q	100 mm	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6
	OM18-K200VP6	200 mm	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OM18-K200VN6	200 mm	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OM18-K200VP6Q	200 mm	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OM18-K200VN6Q	200 mm	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6
	OM18-K400VP6	400 mm	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OM18-K400VN6	400 mm	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OM18-K400VP6Q	400 mm	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OM18-K400VN6Q	400 mm	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6
	OM18-K600VP6	600 mm	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OM18-K600VN6	600 mm	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OM18-K600VP6Q	600 mm	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OM18-K600VN6Q	600 mm	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6

Diffuse reflective vitreous body detect	OM18-TK100VP6	100 mm	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OM18-TK100VN6	100 mm	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OM18-TK100VP6Q	100 mm	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OM18-TK100VN6Q	100 mm	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6
	OM18-TK200VP6	200 mm	Infrared	100 Hz	PNP	NO+NC	2 m cable	Fig.3
	OM18-TK200VN6	200 mm	Infrared	100 Hz	NPN	NO+NC	2 m cable	Fig.4
	OM18-TK200VP6Q	200 mm	Infrared	100 Hz	PNP	NO+NC	M12 connector	Fig.5
	OM18-TK200VN6Q	200 mm	Infrared	100 Hz	NPN	NO+NC	M12 connector	Fig.6

Photoelectric Sensors - Barrel OM18

Wiring:

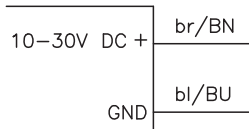


Fig.1

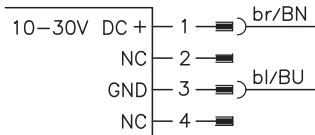


Fig.2

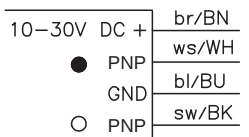


Fig.3

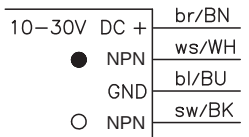


Fig.4

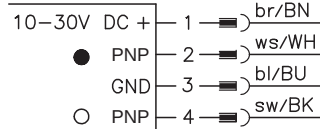


Fig.5

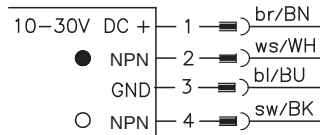


Fig.6

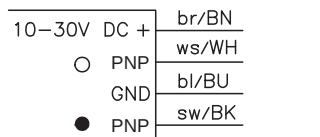


Fig.7

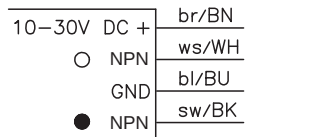


Fig.8

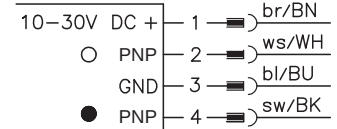


Fig.9

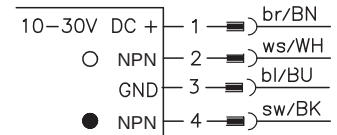
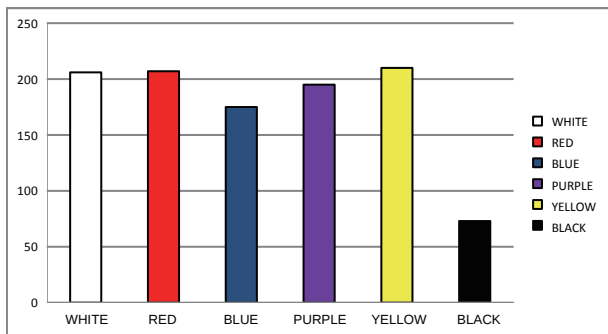


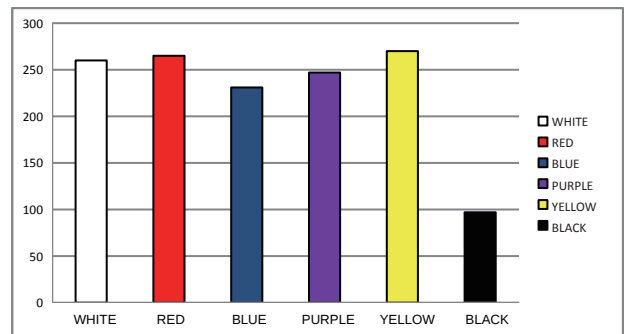
Fig.10

Attenuation figure:

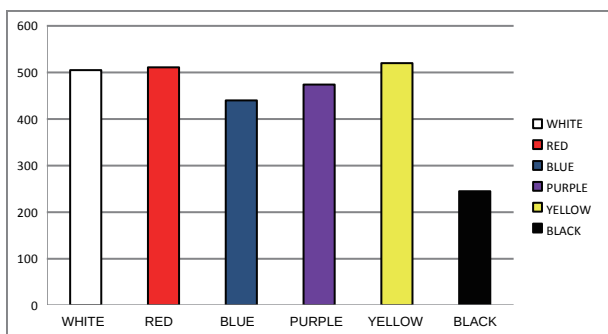
OM18-K100VP6



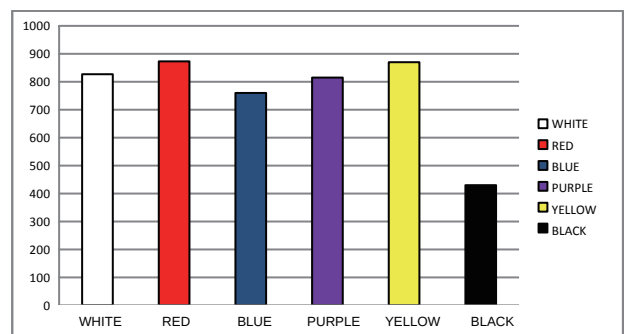
OM18-K200VP6



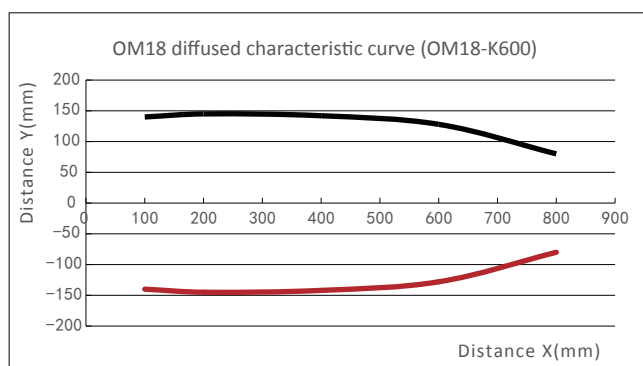
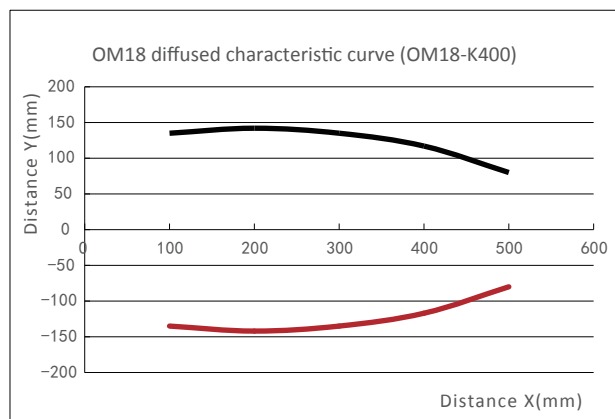
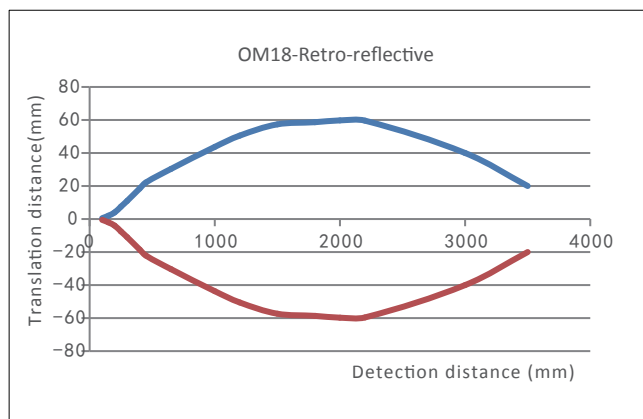
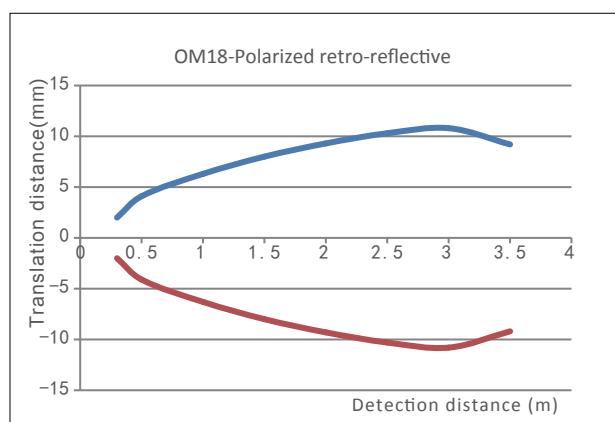
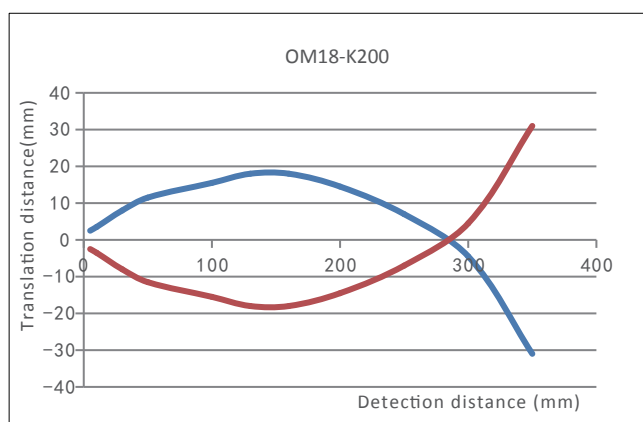
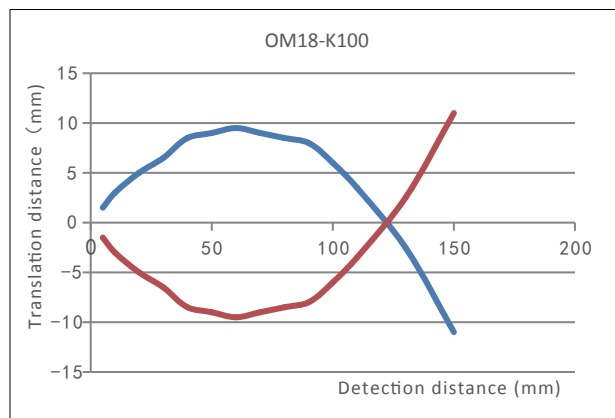
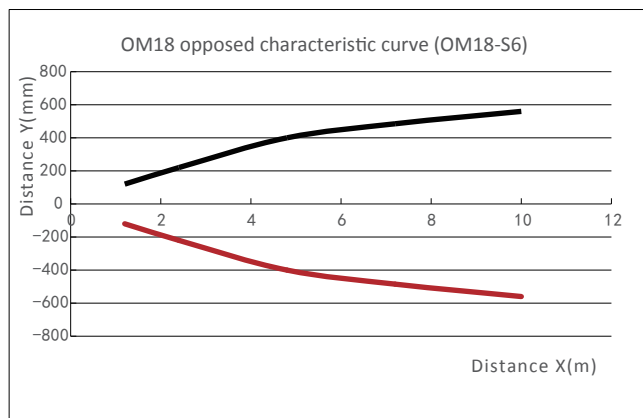
OM18-K400VP6



OM18-K600VP6



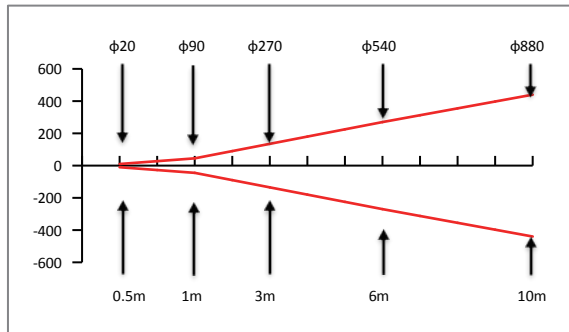
Translation characteristic curve:



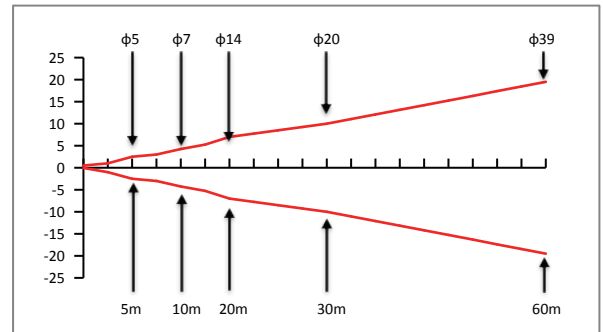
Photoelectric Sensors - Barrel OM18

Beam Pattern :

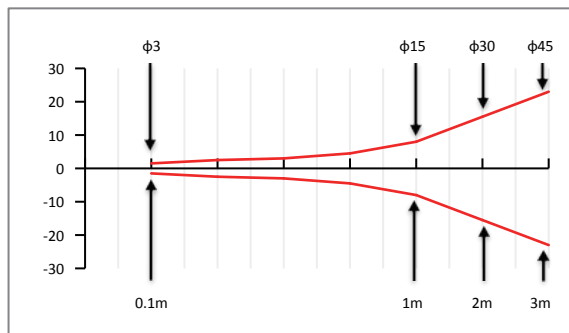
OM18-S6 (mm)



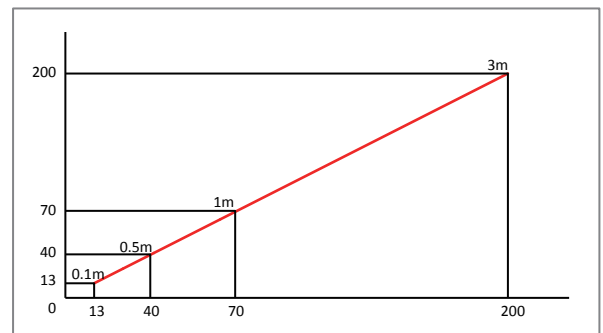
OM18-SL (mm)



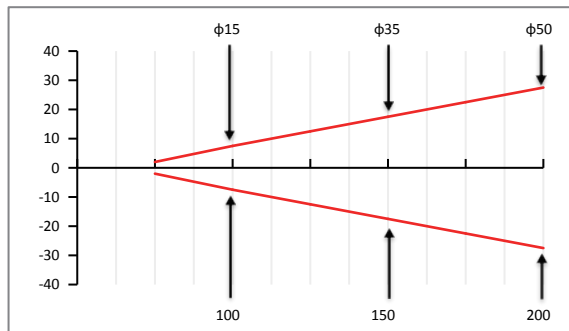
OM18-R (mm)



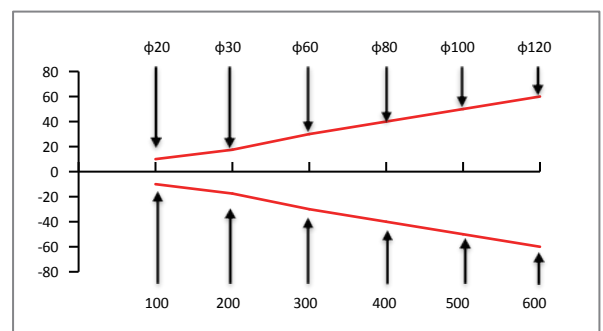
OM18-RP (mm)



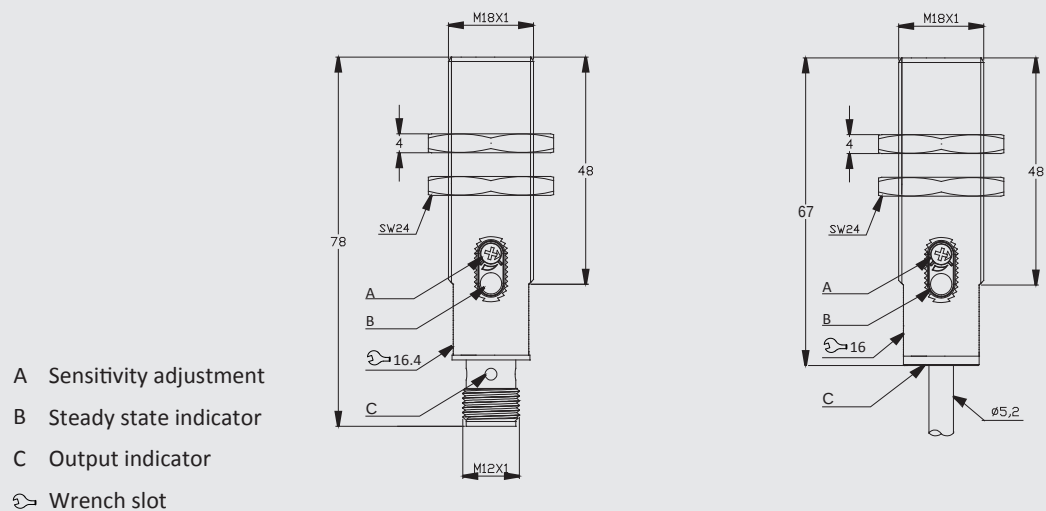
OM18-K100/200 (mm)



OM18-K400/600 (mm)

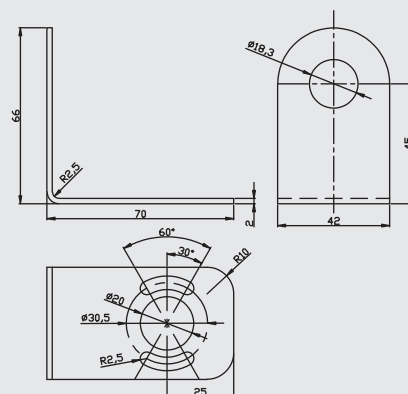


Dimensions:



Mounting bracket (optional):

EOM18-1



Reflector (optional):

RB50x50-1

