



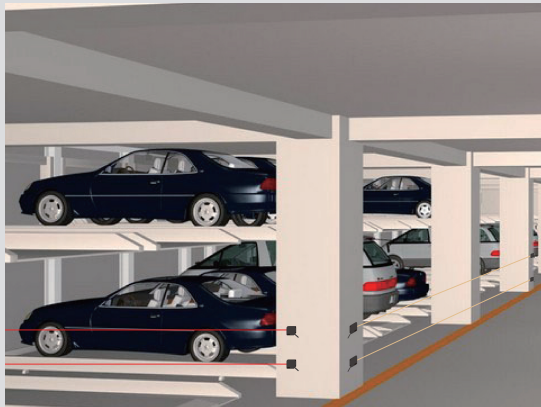
Description:

Rectangular 50*50mm; 40m sensing range for opposed mode; 10m sensing range for retro-reflective mode, 2.5m sensing range for diffused mode; Wide voltage power supply, relay output

Features:

- Multiple output modes
- Long sensing range
- Flexible mounting

Sensor function description:



40m opposed for ultra-long distance detection, suitable for stereo garages, warehouses, 24-240V AC and DC power supply, relay output, no need for a separate 24V switching power supply.

Using a red LED light source that facilitates optical axis alignment, a 10m retro-reflective detection distance and a wide lateral width rolling shutter door can also be installed.



Type:

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OS50-S6 (emitter)	40m	Infrared	500Hz	---	---	2m cable	Fig.1
	OS50-EVP6 (receiver)		---		PNP	NO+NC		Fig.3
	OS50-EVN6 (receiver)		---		NPN			Fig.4
	OS50-S6Q (emitter)	40m	Infrared	500Hz	---	---	M12 connector	Fig.2
	OS50-EVP6Q (receiver)		---		PNP	NO+NC		Fig.5
	OS50-EVN6Q (receiver)		---		NPN			Fig.6
	OS50-S5 (emitter)	40m	Infrared	50Hz	---	---	2m cable	Fig.11
	OS50-EVR5 (receiver)		---		Relay	NO+NC		Fig.12
	OS50-S206 (emitter)	20m	Red	500Hz	---	---	2m cable	Fig.1
	OS50-E20VP6 (receiver)		---		PNP	NO+NC		Fig.3
	OS50-E20VN6 (receiver)		---		NPN			Fig.4
	OS50-S206Q (emitter)	20m	Red	500Hz	---	---	M12 connector	Fig.2
	OS50-E20VP6Q (receiver)		---		PNP	NO+NC		Fig.5
	OS50-E20VN6Q (receiver)		---		NPN			Fig.6
	OS50-S205 (emitter)	20m	Red	50Hz	---	---	2m cable	Fig.11
	OS50-E20VR5 (receiver)		---		Relay	NO+NC		Fig.12
	OS50-SL6(emitter)	60m	Laser	500Hz	---	---	2m cable	Fig.1
	OS50-ELVP6 (receiver)		---		PNP	NO+NC		Fig.3
	OS50-ELVN6 (receiver)		---		NPN			Fig.4
	OS50-SL6Q(emitter)	60m	Laser	500Hz	---	---	M12 connector	Fig.2
OS50-ELVP6Q (receiver)	---		PNP		NO+NC	Fig.5		
OS50-ELVN6Q (receiver)	---		NPN			Fig.6		
OS50-SL5(emitter)	60m	Laser	50Hz	---	---	2m cable	Fig.7	
OS50-ELVR5 (receiver)		---		Relay	NO+NC		Fig.8	

The detection distance corresponds to the reflector RB50*50-1

Retro-reflective	OS50-RVP6	10m	Red	500Hz	PNP	NO+NC	2m cable	Fig.3
	OS50-RVN6				NPN			Fig.4
	OS50-RVP6Q	10m	Red	500Hz	PNP	NO+NC	M12 connector	Fig.5
	OS50-RVN6Q				NPN			Fig.6
	OS50-RVR5	10m	Red	50Hz	Relay	NO+NC	2m cable	Fig.12
Polarized retro-reflective	OS50-RPVP6	6m	Red	500Hz	PNP	NO+NC	2m cable	Fig.3
	OS50-RPVN6				NPN			Fig.4
	OS50-RPVP6Q	6m	Red	500Hz	PNP	NO+NC	M12 connector	Fig.5
	OS50-RPVN6Q				NPN			Fig.6
	OS50-RPVR5	6m	Red	50Hz	Relay	NO+NC	2m cable	Fig.12

Diffused	OS50-K1000VP6	1000mm	Red	500Hz	PNP	NO+NC	2m cable	Fig.7
	OS50-K1000VN6				NPN			Fig.8
	OS50-K1000VP6Q	1000mm	Red	500Hz	PNP	NO+NC	M12 connector	Fig.9
	OS50-K1000VN6Q				NPN			Fig.10
	OS50-K1000VR5	1000mm	Red	50Hz	Relay	NO+NC	2m cable	Fig.12
	OS50-K2500VP6	2500mm	Infrared	500Hz	PNP	NO+NC	2m cable	Fig.7
	OS50-K2500VN6				NPN			Fig.8
	OS50-K2500VP6Q	2500mm	Infrared	500Hz	PNP	NO+NC	M12 connector	Fig.9
	OS50-K2500VN6Q				NPN			Fig.10
	OS50-K2500VR5	2500mm	Infrared	50Hz	Relay	NO+NC	2m cable	Fig.12

Technical Data:

Operating voltage	10...30VDC(NPN、PNP) 24...240VAC/DC(relay type)
Response time	Max,2ms(NPN、PNP) Max,30ms(relay type)
Repeatability	≤3%
Load current	≤200mA(NPN、PNP) ≤3A (relay type)
Protection circuit	Electrical surge, reverse polarity protection, short circuit protection Electrical surge protection (relay type)
Distance adjustment	Adjustable, with single-turn knob
Output indicator	Yellow LED
Ambient temperature	-25...55°C
Ambient humidity	35...85%RH
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	IP65
Housing material	PC + ABS
Accessories	Mounting bracket (all types) EOS50-1, reflector RB50*50-1 (only for retro-reflective and polarized retro-reflective)

Wiring:

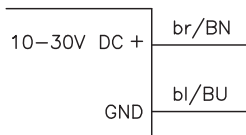


Fig.1

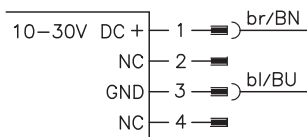


Fig.2

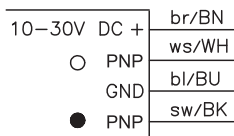


Fig.3

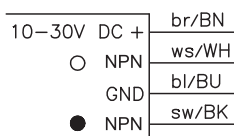


Fig.4

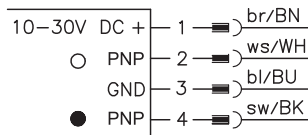


Fig.5

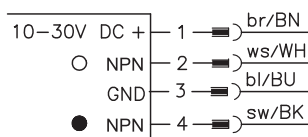


Fig.6

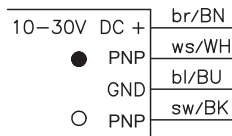


Fig.7

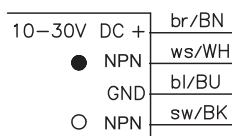


Fig.8

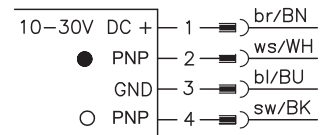


Fig.9

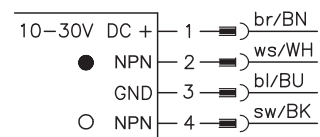


Fig.10

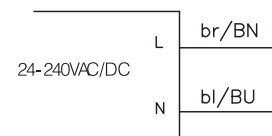


Fig.11

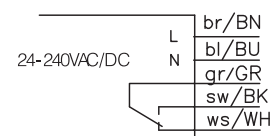
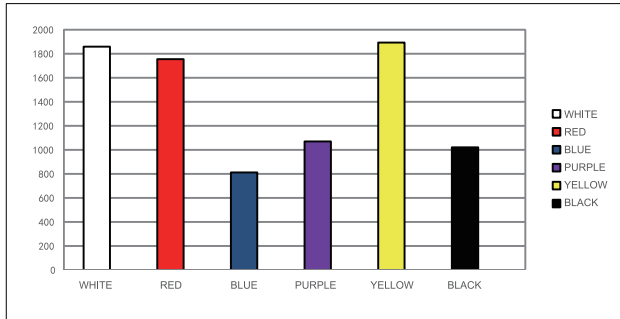


Fig.12

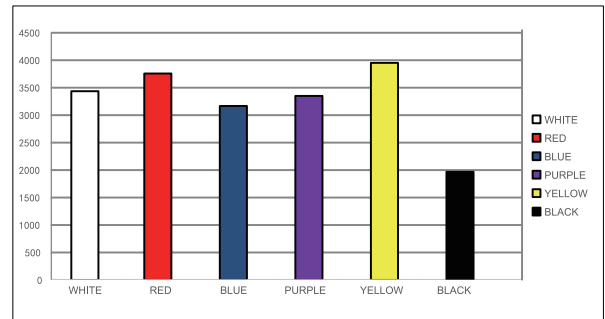
Photoelectric Sensors—Rectangular-OS50

Functional characteristics:

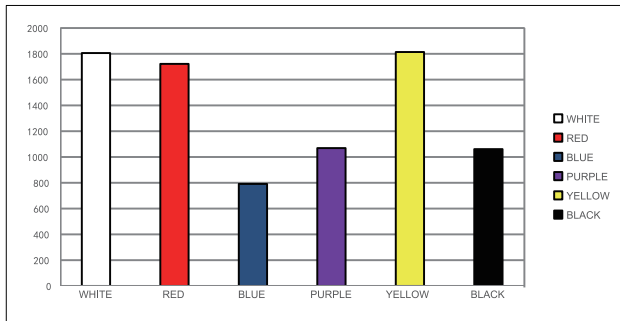
OS50-K1000VP6 diffused attenuation figure



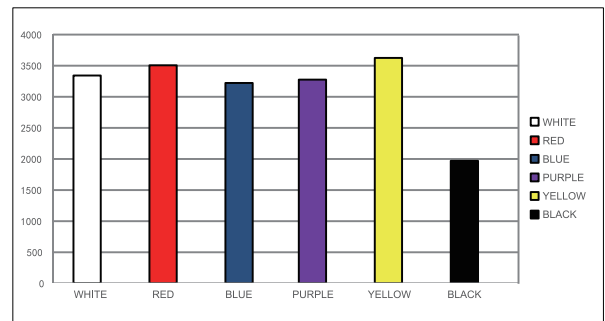
OS50-K2500VP6 diffused attenuation figure



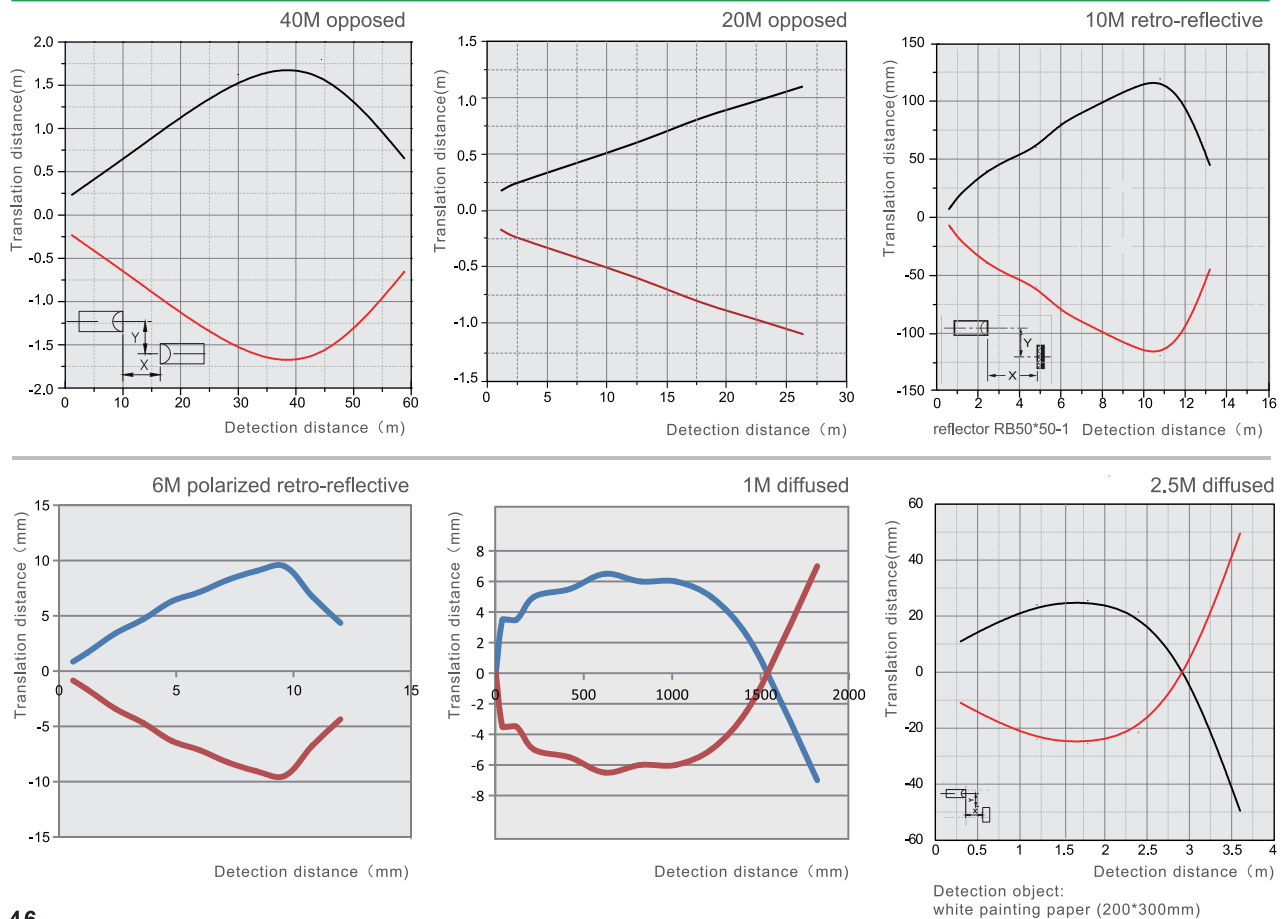
OS50-K1000VR5 diffused attenuation figure



OS50-K2500VR5 diffused attenuation figure

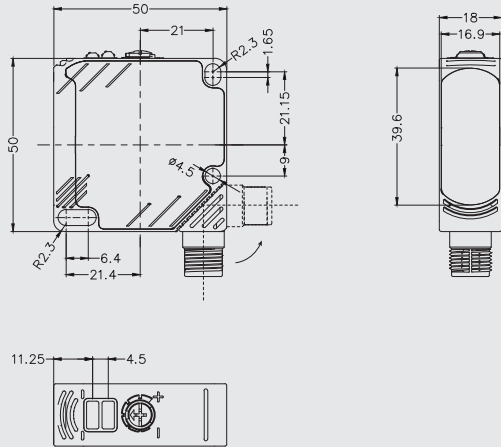


OS50 series translation characteristic curve

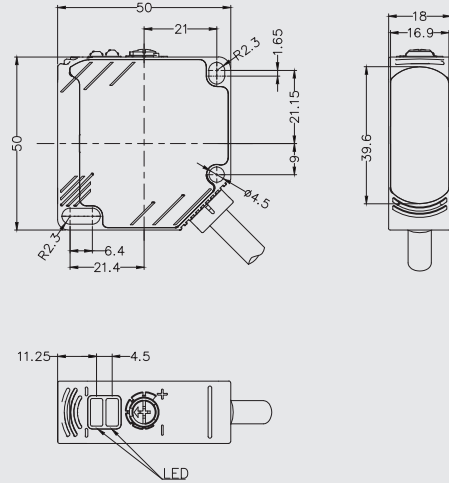


Dimensions:

M12 connector

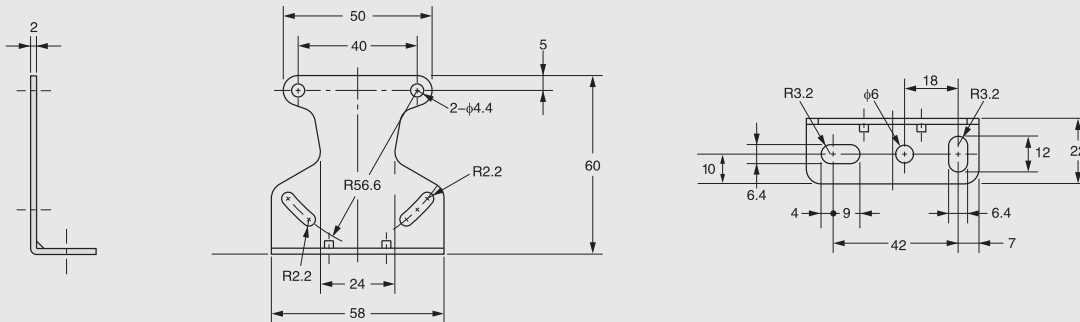


2m cable



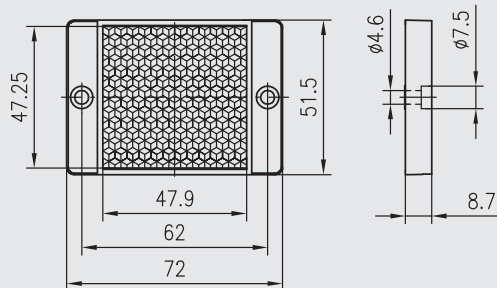
Mounting bracket (standard):

EOS50-1



Reflector:

RB50x50-1 (standard)



RB50x50 (optional)

