Photoelectric Sensors—Rectangular-OS10





Description:

Mini-rectangular photoelectric sensors OS10 series, with high performance and 25.4mm standard mounting hole distance, are available as BGS (background suppression) mode, Diffused mode, retro-reflective mode, and opposed mode. With optional red beam or laser beam source, they are suitable for printing and packaging, pharmaceutical, electronic, small equipment and other application fields.

Features:

- BGS function greatly improves the detection effect
- Optional red beam or laser beam
- Adjustable sensing range
- Protection class IP67
- Optional M8 connector, 2 m pre-wired cable

Red Beam:

Detection mode	Туре	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OS10-S6 (emitter)	30m	Infrared				2m cable	Fig. 1
	OS10-ECN6(receiver)			1kHz	NPN	Light on/dark on	2m cable	Fig. 2
	OS10-ECP6(receiver)			1kHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-S6Q8(emitter)	30m	Infrared	——		——	M8 connector, 4-pin	Fig. 4
	OS10-ECN6Q8(receiver)			1kHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-ECP6Q8(receiver)			1kHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6
Polarized retro- reflective	OS10-RPCN6	6m	Red	1kHz	NPN	Light on/dark on	2m cable	Fig. 2
	OS10-RPCP6	6m	Red	1kHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-RPCN6Q8	6m	Red	1kHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-RPCP6Q8	6m	Red	1kHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6
	OS10-K1000CN6	20 . 1000mm	Red	1kHz	NPN	Light on/dark on	2m cable	Fig. 2
Diffused	OS10-K1000CP6	20 . 1000mm	Red	1kHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-K1000CN6Q8	20 . 1000mm	Red	1kHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-K1000CP6Q8	20 . 1000mm	Red	1kHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6
	OS10-AK65CN6	665mm	Red	1kHz	NPN	Light on/dark on	2m cable	Fig. 2
	OS10-AK65CP6	665mm	Red	1kHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-AK65CN6Q8	665mm	Red	1kHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-AK65CP6Q8	665mm	Red	1kHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6
	OS10-AK150CN6	6150mm	Red	1kHz	NPN	Light on/dark on	2m cable	Fig. 2
BGS	OS10-AK150CP6	6150mm	Red	1kHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-AK150CN6Q8	6150mm	Red	1kHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-AK150CP6Q8	6150mm	Red	1kHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6
	OS10-AK350CN6	6350mm	Red	1kHz	NPN	Light on/dark on	2m cable	Fig. 2
	OS10-AK350CP6	6350mm	Red	1kHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-AK350CN6Q8	6350mm	Red	1kHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-AK350CP6Q8	6350mm	Red	1kHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6

Laser Beam:

Detection mode	Туре	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OS10-SL6 (emitter)	30m	Laser				2m cable	Fig. 1
	OS10-ELCN6(receiver)			1KHz	NPN	Light on/dark on	2m cable	Fig. 2
	OS10-ELCP6(receiver)			1KHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-SL6Q8 (emitter)	-	Laser			——	M8 connector, 4-pin	Fig. 4
	OS10-ELCN6Q8 (receiver)			1KHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-ELCP6Q8 (receiver)			1KHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6
Polarized retro- reflective	OS10-RPLCN6	5m	Laser	1KHz	NPN	Light on/dark on	2m cable	Fig. 2
	OS10-RPLCP6	5m	Laser	1KHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-RPLCN6Q8	5m	Laser	1KHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-RPLCP6Q8	5m	Laser	1KHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6
BGS	OS10-AKL150CN6	6150mm	Laser	1KHz	NPN	Light on/dark on	2m cable	Fig. 2
	OS10-AKL150CP6	6150mm	Laser	1KHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-AKL150CN6Q8	6150mm	Laser	1KHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-AKL150CP6Q8	6150mm	Laser	1KHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6
	OS10-AKL350CN6	6350mm	Laser	1KHz	NPN	Light on/dark on	2m cable	Fig. 2
	OS10-AKL350CP6	6350mm	Laser	1KHz	PNP	Light on/dark on	2m cable	Fig. 3
	OS10-AKL350CN6Q8	6350mm	Laser	1KHz	NPN	Light on/dark on	M8 connector, 4-pin	Fig. 5
	OS10-AKL350CP6Q8	6350mm	Laser	1KHz	PNP	Light on/dark on	M8 connector, 4-pin	Fig. 6

Technical Data:

Operating voltage	1030VDC			
Ripple voltage	±10% of U _B			
Light source	Red (625nm) / class 1 laser			
Output type	PNP / NPN			
Switch mode	Light on: Setting connects U+			
	Dark on: Setting connects U-			
No-load current	≤20mA			
load current	≤100mA			
Sensitivity	Potentiometer adjustment			
LED	Power supply (green), switch (yellow)			
Housing	Polycarbonate			
Connection	M8 connector/2m cable			
Ambient temperature	-25°C+55°C			
Storage temperature	-40°C+70°C			
Protection class	IP67			



Product Features:





BGS - Background Suppression Function:

32