





Description:

Mini-rectangular photoelectric sensors OS10S series, with high performance and 25.4mm standard mounting hole distance, product series include 10m opposed, 3m polarized, 350mm and 1m/4m BGS. With optional red beam. They are suitable for logistics transportation, new energy and other application fields.

Features:

- 350mm BGS LO or DO adjustable
- 1m/4m BGS adjustable with teach button
- IP67
- Optional M8 connector, 2 m pre-wired cable

Type:

Detection mode	Туре	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OS10S-S6	10m	Red				2m cable	Fig.1
	OS10S-ECN6	10m		800Hz	NPN	Light on/dark on	2m cable	Fig.2
	OS10S-ECP6	10m	_	800Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS10S-S6Q8	10m	Red				M8 connector, 4-pin	Fig.8-1
	OS10S-ECN6Q8	10m	_	800Hz	NPN	Light on/dark on	M8 connector, 4-pin	Fig.9-1
	OS10S-ECP6Q8	10m	_	800Hz	PNP	Light on/dark on	M8 connector, 4-pin	Fig.10-1
	OS10S-RPCN6	3m	Red	800Hz	NPN	Light on/dark on	2m cable	Fig.2
Dolorizod	OS10S-RPCP6	3m	Red	800Hz	PNP	Light on/dark on	2m cable	Fig.3
Polarized retroreflective	OS10S-RPCN6Q8	3m	Red	800Hz	NPN	Light on/dark on	M8 connector, 4-pin	Fig.9-1
	OS10S-RPCP6Q8	3m	Red	800Hz	PNP	Light on/dark on	M8 connector, 4-pin	Fig.10-1
BGS	OS10S-AK350CN6	6350mm	Red	600Hz	NPN	Light on/dark on	2m cable	Fig.2
	OS10S-AK350CP6	6350mm	Red	600Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS10S-AK350CN6Q8	6350mm	Red	600Hz	NPN	Light on/dark on	M8 connector, 4-pin	Fig.9-1
	OS10S-AK350CP6Q8	6350mm	Red	600Hz	PNP	Light on/dark on	M8 connector, 4-pin	Fig.10-1
	OS10S-AK1000LN6	501000mm	Infrared laser	10~20HZ	NPN	Light on	2m cable	Fig.4
	OS10S-AK1000LP6	501000mm	Infrared laser	10~20HZ	PNP	Light on	2m cable	Fig.5
	OS10S-AK1000DN6	501000mm	Infrared laser	10~20HZ	NPN	Dark on	2m cable	Fig.6
	OS10S-AK1000DP6	501000mm	Infrared laser	10~20HZ	PNP	Dark on	2m cable	Fig.7
	OS10S-AK1000LN6Q8	501000mm	Infrared laser	10~20HZ	NPN	Light on	M8 connector, 4-pin	Fig.11-1
BGS TOF	OS10S-AK1000LP6Q8	501000mm	Infrared laser	10~20HZ	PNP	Light on	M8 connector, 4-pin	Fig.12-1
	OS10S-AK1000DN6Q8	501000mm	Infrared laser	10~20HZ	NPN	Dark on	M8 connector, 4-pin	Fig.13-1
	OS10S-AK1000DP6Q8	501000mm	Infrared laser	10~20HZ	PNP	Dark on	M8 connector, 4-pin	Fig.14-1
	OS10S-AK4000LN6	204000mm	Infrared laser	50~100HZ	NPN	Light on	2m cable	Fig.4
	OS10S-AK4000LP6	204000mm	Infrared laser	50~100HZ	PNP	Light on	2m cable	Fig.5
	OS10S-AK4000DN6	204000mm	Infrared laser	50~100HZ	NPN	Dark on	2m cable	Fig.6
	OS10S-AK4000DP6	204000mm	Infrared laser	50~100HZ	PNP	Dark on	2m cable	Fig.7
	OS10S-AK4000LN6Q8	204000mm	Infrared laser	50~100HZ	NPN	Light on	M8 connector, 4-pin	Fig.11-1
	OS10S-AK4000LP6Q8	204000mm	Infrared laser	50~100HZ	PNP	Light on	M8 connector, 4-pin	Fig.12-1
	OS10S-AK4000DN6Q8	204000mm	Infrared laser	50~100HZ	NPN	Dark on	M8 connector, 4-pin	Fig.13-1
	OS10S-AK4000DP6Q8	204000mm	Infrared laser	50~100HZ	PNP	Dark on	M8 connector, 4-pin	Fig.14-1

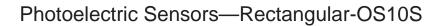
Photoelectric Sensors—Rectangular-OS10S

Type:

Detection mode	Туре	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OS10S-S6Q8.3	10m	Red				M8 connector, 3-pin	Fig.8-2
	OS10S-ECN6Q8.3	10m		800Hz	NPN	Light on/dark on	M8 connector, 3-pin	Fig.9-2
	OS10S-ECP6Q8.3	10m		800Hz	PNP	Light on/dark on	M8 connector, 3-pin	Fig.10-2
Polarized	OS10S-RPCN6Q8.3	3m	Red	800Hz	NPN	Light on/dark on	M8 connector, 3-pin	Fig.9-2
retroreflective	OS10S-RPCP6Q8.3	3m	Red	800Hz	PNP	Light on/dark on	M8 connector, 3-pin	Fig.10-2
BGS	OS10S-AK350CN6Q8.3	6350mm	Red	600Hz	NPN	Light on/dark on	M8 connector, 3-pin	Fig.9-2
	OS10S-AK350CP6Q8.3	6350mm	Red	600Hz	PNP	Light on/dark on	M8 connector, 3-pin	Fig.10-2
BGS TOF	OS10S-AK1000LN6Q8.3	501000mm	Infrared laser	10~20HZ	NPN	Light on	M8 connector, 3-pin	Fig.11-2
	OS10S-AK1000LP6Q8.3	501000mm	Infrared laser	10~20HZ	PNP	Light on	M8 connector, 3-pin	Fig.12-2
	OS10S-AK1000DN6Q8.3	501000mm	Infrared laser	10~20HZ	NPN	Dark on	M8 connector, 3-pin	Fig.13-2
	OS10S-AK1000DP6Q8.3	501000mm	Infrared laser	10~20HZ	PNP	Dark on	M8 connector, 3-pin	Fig.14-2
	OS10S-AK4000LN6Q8.3	204000mm	Infrared laser	50~100HZ	NPN	Light on	M8 connector, 3-pin	Fig.11-2
	OS10S-AK4000LP6Q8.3	204000mm	Infrared laser	50~100HZ	PNP	Light on	M8 connector, 3-pin	Fig.12-2
	OS10S-AK4000DN6Q8.3	204000mm	Infrared laser	50~100HZ	NPN	Dark on	M8 connector, 3-pin	Fig.13-2
	OS10S-AK4000DP6Q8.3	204000mm	Infrared laser	50~100HZ	PNP	Dark on	M8 connector, 3-pin	Fig.14-2

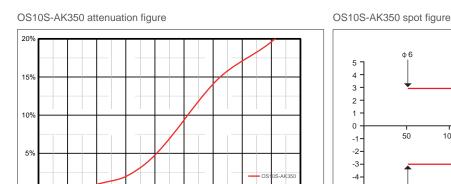
Technical Data:

Operating voltage	1030VDC
Ripple voltage	≤10%
Light source	$630 nm\ red\ beam\ (AK350)\ ;\ 940 nmVcsel\ laser\ (AK1000/AK4000)\ ;\ 630 nm\ red\ beam\ (polarized\)$
Output type	PNP / NPN
Switch mode	LO/DO optional (AK350 and polarized); LO/DO (AK1000)
Spot size	φ60mm (Polarized retroreflective@3m); φ7mm (AK350@350mm);
	φ35mm (AK1000@1m); 80*150mm(AK4000@4m)
No-load current	25mA
load current	≤100mA
Output indicator	Red LED
Steady state indicator	Green LED
Housing	PC+PBT
Connection	2m cable(3 wires)/ M8 3-pin or 4-pin connector
Ambient temperature	-20°C+60°C
Storage temperature	-40°C+70°C
Voltage withstanding	1000V/AC/ 50/60Hz 60s
Insulation impedence	≥50MΩ (500VDC)
Shock resistance	Complex amplitude 1.5mm 10 50Hz (2hr X, Y,Z respectively)
Impact resistance	500m/s²(50G) 3 times X,Y,Z respectively
Protection class	IP67





Product Features:



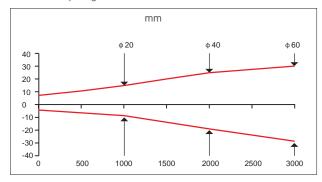
250

400

450

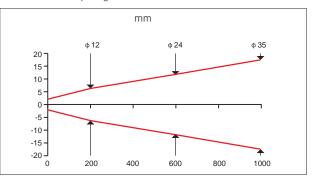
mm 3 . 0 -50 100 200 300 400

OS10S-PR spot figure



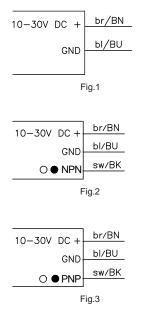


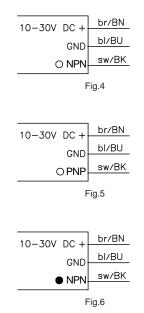
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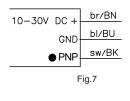


Wiring:





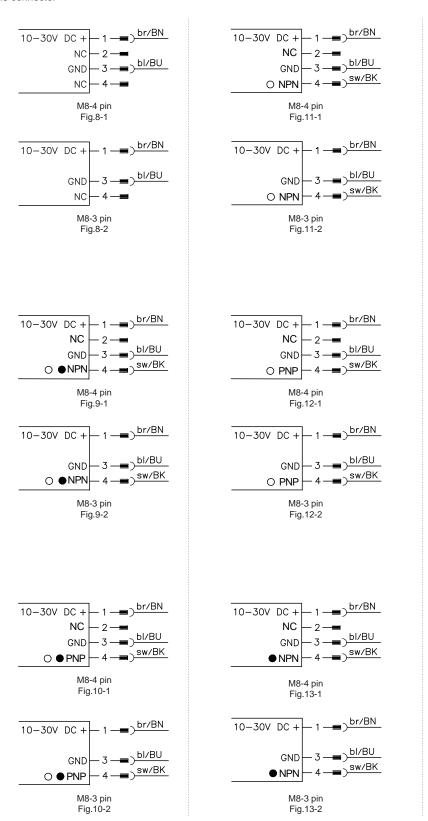


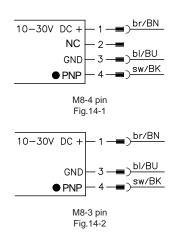


Photoelectric Sensors—Rectangular-OS10S

Wiring:

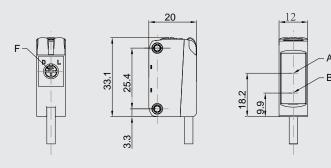
M8 connector





Dimensions:(Cable)

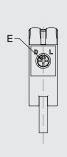
BGS

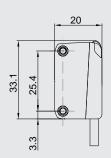


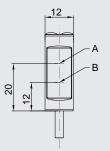
E C

A:Receiver B:Emitter C:Output indicator D:Steady state indicator E:Adjustor for distance F:Adjustor for LO/DO

Polarized retroreflective



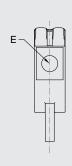


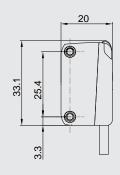


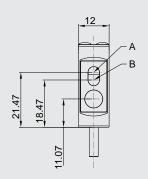


A:Receiver B:Emitter C:Output indicator D:Steady state indicator E:Adjustor for LO/DO

BGS TOF





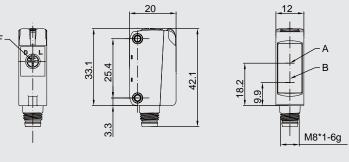




A:Receiver
B:Emitter
C:Output indicator
D:Steady state indicator
E:TEACH BUTTON

Dimensions:(M8 connector)

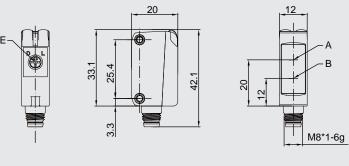
BGS



A:Receiver B:Emitter

- C:Output indicator
- D:Steady state indicator E:Adjustor for distance F:Adjustor for LO/DO

Polarized retroreflective

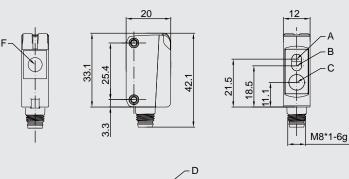




A:Receiver B:Emitter C:Output indicator

D:Steady state indicator E:Adjustor for LO/DO

BGS TOF



A:Receiver B:Emitter

- C:Indicator beam
- D:Output indicator
- E:Steady state indicator
- F:TEACH BUTTON