



### Description:

High-performance mini rectangular photoelectric sensor can provide BGS (dynamic and static state, 1M BGS) detection, laser coaxial polarized retro-reflective detection and laser non-coaxial polarized retro-reflective detection, transparent object detection and PCB detection. It is suitable for logistics, Textile, glass machinery, food packaging and other applications.

### Features:

- It can provide stable and reliable detection of the motion state of objects
- Distance of 1M available for BGS
- Coaxial has no blind-zone, precise positioning function
- Red or laser are optional

### Type:

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Dynamic and static state	OS20-SDK40CN6	40mm	Red	800Hz	NPN	Light on/dark on	2m cable	Fig.1
	OS20-SDK40CP6		Red	800Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS20-SDK40CN6Q8		Red	800Hz	NPN	Light on/dark on	M8 4-pin connector	Fig.2
	OS20-SDK40CP6Q8		Red	800Hz	PNP	Light on/dark on	M8 4-pin connector	Fig.4
BGS PCB detection line array light source	OS20-AK100CN6/L	100mm	Red	800Hz	NPN	Light on/dark on	2m cable	Fig.1
	OS20-AK100CP6/L		Red	800Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS20-AK100CN6Q8/L		Red	800Hz	NPN	Light on/dark on	M8 4-pin connector	Fig.2
	OS20-AK100CP6Q8/L		Red	800Hz	PNP	Light on/dark on	M8 4-pin connector	Fig.4
BGS	OS20-AK300CN6	6...300mm	Red	800Hz	NPN	Light on/dark on	2m cable	Fig.1
	OS20-AK300CP6		Red	800Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS20-AK300CN6Q8		Red	800Hz	NPN	Light on/dark on	M8 4-pin connector	Fig.2
	OS20-AK300CP6Q8		Red	800Hz	PNP	Light on/dark on	M8 4-pin connector	Fig.4
BGS	OS20-AK1000CN6	20...1000mm	Red	30Hz	NPN	Light on/dark on	2m cable	Fig.1
	OS20-AK1000CP6		Red	30Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS20-AK1000CN6Q8		Red	30Hz	NPN	Light on/dark on	M8 4-pin connector	Fig.2
	OS20-AK1000CP6Q8		Red	30Hz	PNP	Light on/dark on	M8 4-pin connector	Fig.4
Retro-reflective transparent object detection	OS20-TRCN6	2.5m	Red	50Hz	NPN	Light on/dark on	2m cable	Fig.1
	OS20-TRCP6		Red	50Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS20-TRCN6Q8		Red	50Hz	NPN	Light on/dark on	M8 4-pin connector	Fig.2
	OS20-TRCP6Q8		Red	50Hz	PNP	Light on/dark on	M8 4-pin connector	Fig.4
Non-coaxial polarized retro-reflective detection	OS20-RPLCN6	5m	Laser	800Hz	NPN	Light on/dark on	2m cable	Fig.1
	OS20-RPLCP6		Laser	800Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS20-RPLCN6Q8		Laser	800Hz	NPN	Light on/dark on	M8 4-pin connector	Fig.2
	OS20-RPLCP6Q8		Laser	800Hz	PNP	Light on/dark on	M8 4-pin connector	Fig.4
Coaxial polarized retro-reflective detection	OS20-TRPLCN6	5m	Laser	800Hz	NPN	Light on/dark on	2m cable	Fig.1
	OS20-TRPLCP6		Laser	800Hz	PNP	Light on/dark on	2m cable	Fig.3
	OS20-TRPLCN6Q8		Laser	800Hz	NPN	Light on/dark on	M8 4-pin connector	Fig.2
	OS20-TRPLCP6Q8		Laser	800Hz	PNP	Light on/dark on	M8 4-pin connector	Fig.4

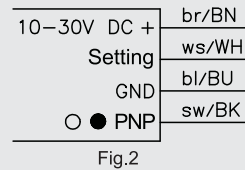
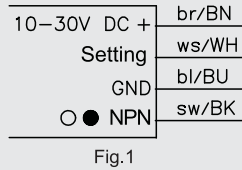
\*I Infrared beam, eg. OS20-AK100CN6/L/I

## Technical Data:

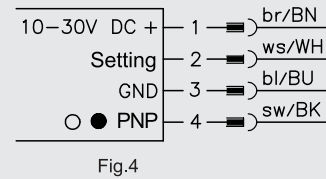
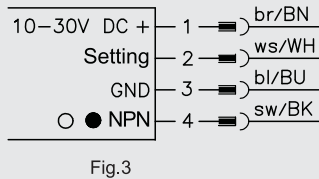
Operating voltage	10...30VDC
Ripple voltage	≤10%
Light source	Red (625nm) / class 1 laser
Output type	PNP / NPN
Switch mode	Light on: Setting connects U+ Dark on: Setting connects U-
No-load current	≤20mA
load current	≤100mA
Sensitivity	Teach button or potentiometer adjustment
Output indicator	Red LED
Steady state indicator	Green LED
Housing	PC+PBT
Connection	M8 connector/2m cable
Ambient temperature	-25°C...+55°C
Storage temperature	-40°C...+70°C
Voltage withstanding	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 <sup>2</sup> (50G) 3 times X,Y,Z respectively
Protection class	IP67

## Wiring:

Pre-wired cable



M8 connector



## Dimensions:

