



Description

Mini-rectangular photoelectric sensors OS10S series, with high performance and 25.4 mm standard mounting hole distance, product series include 1 m, 1.5 m, 4 m BGS. With optional red beam. They are suitable for logistics transportation, new energy and other application fields.

Features

- LO or DO adjustable
- 1.5 m, 4 m BGS adjustable with teach butttton
- IP67



Type

Detection mode	Туре	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
BGS TOF	OS10S-AK1000CN6	50 1000 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	2 m cable	Fig. 1
	OS10S-AK1000CP6	50 1000 mm	Infrared laser + Red light indication	30 Hz	PNP	Light on / Dark on	2 m cable	Fig. 2
	OS10S-AK1000CN6Q8	50 1000 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-AK1000CP6Q8	50 1000 mm	Infrared laser + Red light indication	30 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-AK1000CN6Q8.3	50 1000 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 7
	OS10S-AK1000CP6Q8.3	50 1000 mm	Infrared laser + Red light indication	30 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-AK1500CN6	50 1500 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	2 m cable	Fig. 1
	OS10S-AK1500CP6	50 1500 mm	Infrared laser + Red light indication	30 Hz	PNP	Light on / Dark on	2 m cable	Fig. 2
	OS10S-AK1500CN6Q8	50 1500 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-AK1500CP6Q8	50 1500 mm	Infrared laser + Red light indication	30 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-AK1500CN6Q8.3	50 1500 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 7
	OS10S-AK1500CP6Q8.3	50 1500 mm	Infrared laser + Laser indication	30 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-AK4000CN6	50 4000 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	2 m cable	Fig. 1
	OS10S-AK4000CP6	50 4000 mm	Infrared laser + Red light indication	30 Hz	PNP	Light on / Dark on	2 m cable	Fig. 2
	OS10S-AK4000CN6Q8	50 4000 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-AK4000CP6Q8	50 4000 mm	Infrared laser + Red light indication	30 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-AK4000CN6Q8.3	50 4000 mm	Infrared laser + Red light indication	30 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 7
	OS10S-AK4000CP6Q8.3	50 4000 mm	Infrared laser + Red light indication	30 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 8

^{*} OS10S... empfohlene Typen



Type

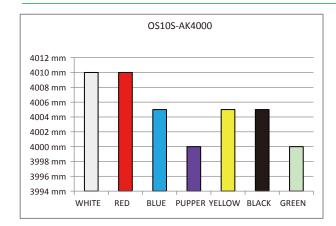
Detection mode	Туре	Distance	Light source	Repeatability	Output	Measurement accuracy	Connection	Wiring
BGS TOF	OS10S-K4000/485	50 4000 mm	Infrared laser	10 mm	RS 485	30 mm	2 m cable	Fig. 3
	OS10S-K4000/485/R-0.2-Q8	50 4000 mm	Infrared laser + Red light indication	10 mm	RS 485	30 mm	M8 Pigtail	Fig. 9
	OS10S-K4000/UR	50 4000 mm	Infrared laser	10 mm	UR	30 mm	2 m cable	Fig. 4

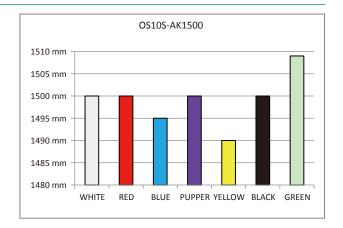
Technical Data

Operating voltage	10 30 V DC / 5 V DC (OS10S-K4000/UR)
Ripple voltage	≤ 10%
Light source	Infrared laser (940 nm) / class 1
Output type	PNP / NPN
Switch mode	LO / DO
No-load current	24 V 25 mA
Load current	≤ 100 mA
Housing	PC + PBT
Connection	2 m cable / M8 3-pin or 4-pin connector
Ambient temperature	-20 +60 °C
Storage temperature	-40 +70 °C
Operating environment humidity	35% to 85%RH (no condensation)
Voltage withstanding	1000 V/AC 50/60 Hz 60 s
Insulation impedence	≥ 50 MΩ (500 V DC)
Shock resistance	Complex amplitude 1.5 mm 10 50 Hz (2 hr X, Y, Z respectively)
Impact resistance	500 m/s² (50 G) 3 times X, Y, Z respectively
Protection class	IP67



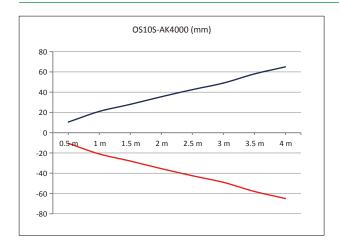
Attenuation Figure

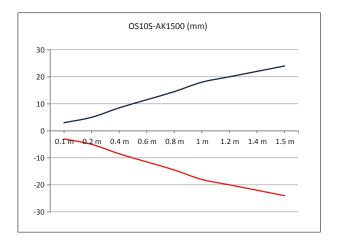




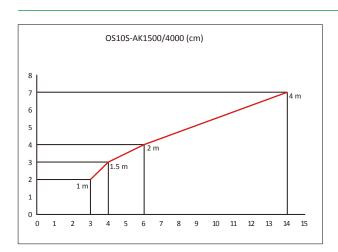


Translation Characteristic Curve





Beam Pattern





Wiring

Cable

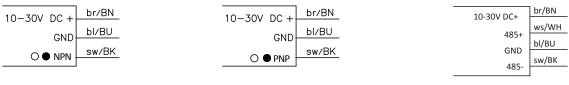


Fig. 1 Fig. 2 Fig. 3

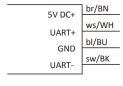
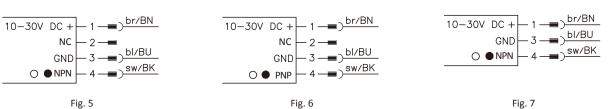


Fig. 4

M8 connector



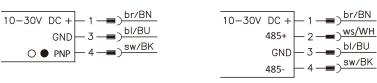
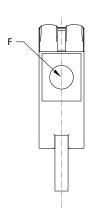


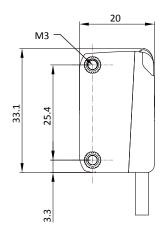
Fig. 8 Fig. 9

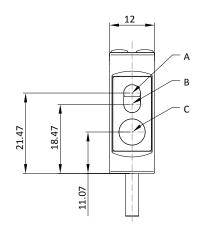


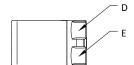
Dimensions (BGS TOF)

Cable



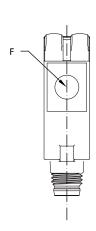


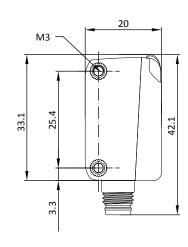


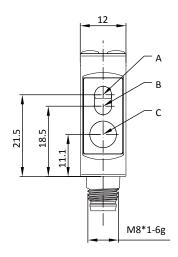


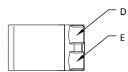
- A: Receiver
- B: Emitter
- C: Indicator light
- D: Output indicator
- E: Steady state indicator F: TEACH button

M8 connector









- A: Receiver
- B: Emitter
- C: Indicator light
- D: Output indicator
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- F: TEACH button

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