



Description

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

Features

- 350 mm BGS LO or DO adjustable
- Opposed and polarized retro-reflective, light / dark operate
- IP67

Type

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

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed	OS10S-S6	10 m	Red	— —	— —	— —	2 m cable	Fig. 1
	OS10S-ECN6	10 m	— —	800 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-ECP6	10 m	— —	800 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-S6Q8	10 m	Red	— —	— —	— —	M8 connector, 4-pin	Fig. 4
	OS10S-ECN6Q8	10 m	— —	800 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-ECP6Q8	10 m	— —	800 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-S6Q8.3	10 m	Red	— —	— —	— —	M8 connector, 3-pin	Fig. 7
	OS10S-ECN6Q8.3	10 m	— —	800 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-ECP6Q8.3	10 m	— —	800 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
Opposed, sensitivity adjustment	OS10S-ECN6/AP	10 m	— —	800 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-ECP6/AP	10 m	— —	800 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-ECN6Q8/AP	10 m	— —	800 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-ECP6Q8/AP	10 m	— —	800 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-ECN6Q8.3/AP	10 m	— —	800 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-ECP6Q8.3/AP	10 m	— —	800 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
Polarized retro-reflective	OS10S-RPCN6	3 m	Red	800 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-RPCP6	3 m	Red	800 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-RPCN6Q8	3 m	Red	800 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-RPCP6Q8	3 m	Red	800 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-RPCN6Q8.3	3 m	Red	800 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-RPCP6Q8.3	3 m	Red	800 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
Polarized retro-reflective, sensitivity adjustment	OS10S-RPCN6/AP	3 m	Red	800 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-RPCP6/AP	3 m	Red	800 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-RPCN6Q8/AP	3 m	Red	800 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-RPCP6Q8/AP	3 m	Red	800 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-RPCN6Q8.3/AP	3 m	Red	800 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-RPCP6Q8.3/AP	3 m	Red	800 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9

Photoelectric Sensors - Rectangular OS10S (Red Light)



Type

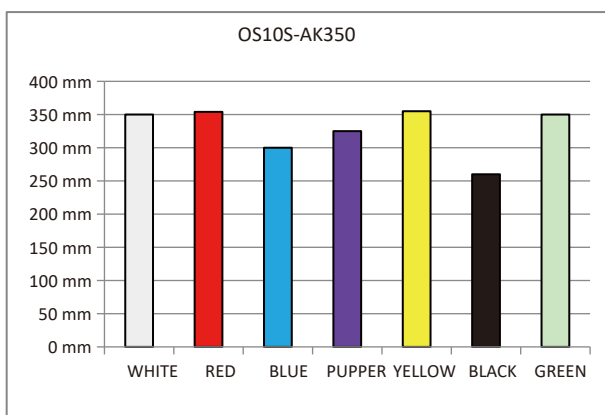
The detection distance corresponds to the reflector RB50*50-1

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Polarized retro-reflective, sensitivity is not adjustable, no reflector is included	OS10S-RPCN6/N	3 m	Red	800 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-RPCP6/N	3 m	Red	800 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-RPCN6Q8/N	3 m	Red	800 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-RPCP6Q8/N	3 m	Red	800 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-RPCN6Q8.3/N	3 m	Red	800 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-RPCP6Q8.3/N	3 m	Red	800 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
Polarized retro-reflective, No blind spots, Sensitivity adjustment	OS10S-RPCN6/ND	2 m	Red	800 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-RPCP6/ND	2 m	Red	800 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-RPCN6Q8/ND	2 m	Red	800 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-RPCP6Q8/ND	2 m	Red	800 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-RPCN6Q8.3/ND	2 m	Red	800 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-RPCP6Q8.3/ND	2 m	Red	800 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
BGS	OS10S-AK150CN6	6 ... 150 mm	Red	400 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-AK150CP6	6 ... 150 mm	Red	400 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-AK150CN6Q8	6 ... 150 mm	Red	400 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-AK150CP6Q8	6 ... 150 mm	Red	400 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-AK150CN6Q8.3	6 ... 150 mm	Red	400 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-AK150CP6Q8.3	6 ... 150 mm	Red	400 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
	OS10S-AK350CN6	6 ... 350 mm	Red	400 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-AK350CP6	6 ... 350 mm	Red	400 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-AK350CN6Q8	6 ... 350 mm	Red	400 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-AK350CP6Q8	6 ... 350 mm	Red	400 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-AK350CN6Q8.3	6 ... 350 mm	Red	400 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-AK350CP6Q8.3	6 ... 350 mm	Red	400 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
Diffused	OS10S-K1000CN6	1000 mm	Red	200 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-K1000CP6	1000 mm	Red	200 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-K1000CN6Q8	1000 mm	Red	200 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-K1000CP6Q8	1000 mm	Red	200 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-K1000CN6Q8.3	1000 mm	Red	200 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-K1000CP6Q8.3	1000 mm	Red	200 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9

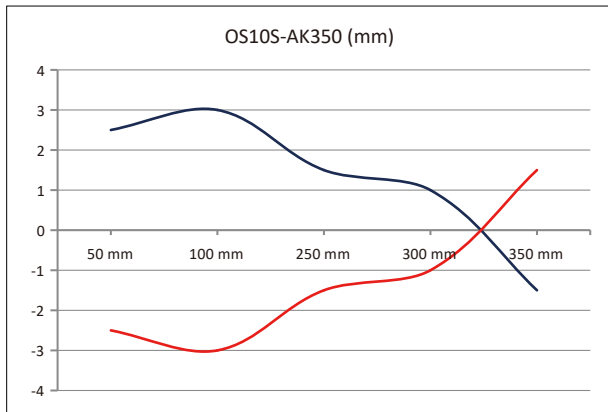
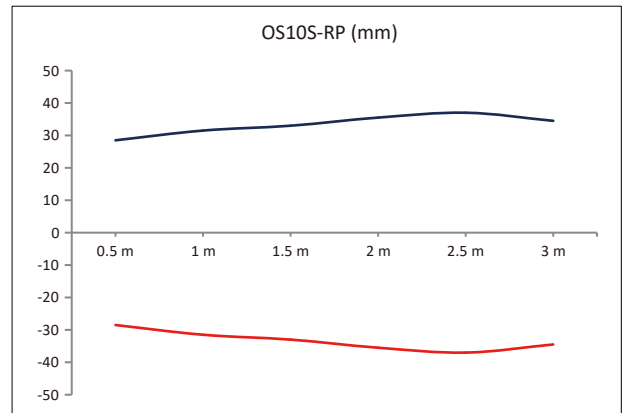
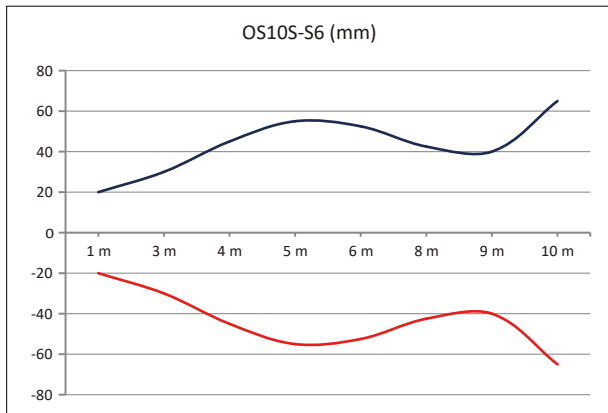
Technical Data

Operating voltage	10 ... 30 V DC
Ripple voltage	≤ 10%
Light source	630 nm red beam
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 impedance	≥ 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/s ² (50 G) 3 times X, Y, Z respectively
Protection class	IP67

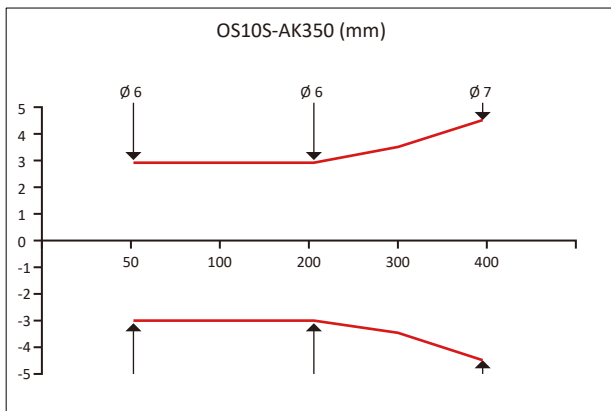
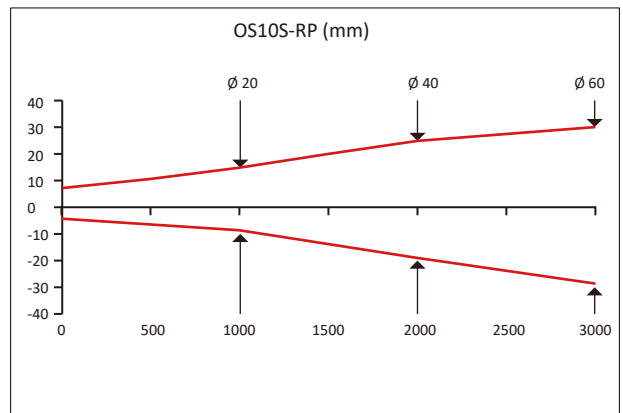
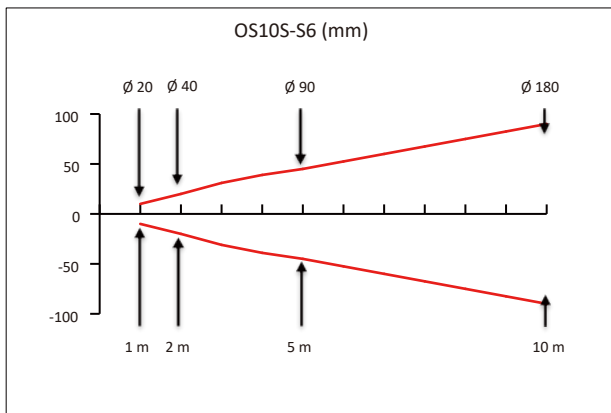
Attenuation Figure



Translation Characteristic Curve



Beam Pattern



Wiring

Cable

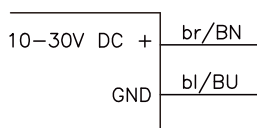


Fig. 1

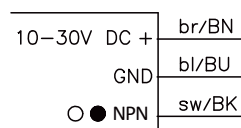


Fig. 2

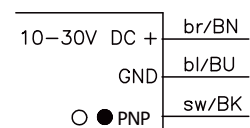


Fig. 3

M8 connector

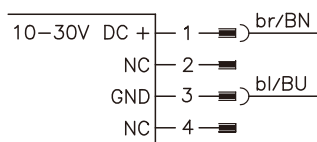


Fig. 4

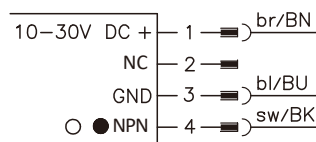


Fig. 5

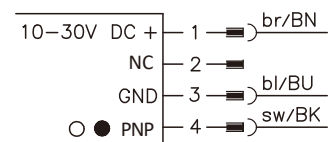


Fig. 6

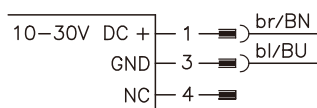


Fig. 7

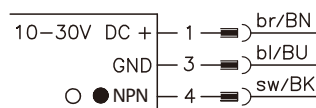


Fig. 8

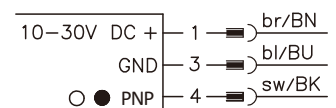
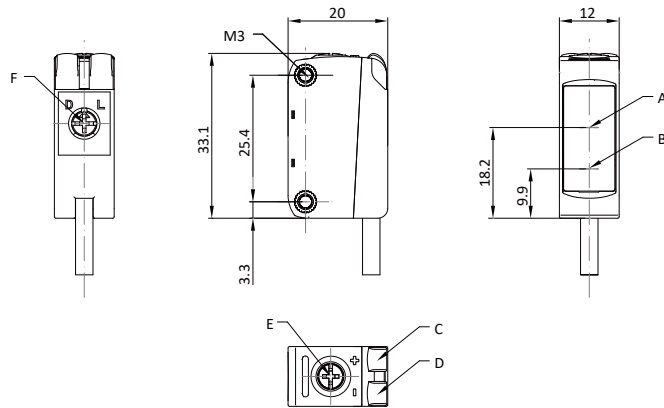


Fig. 9

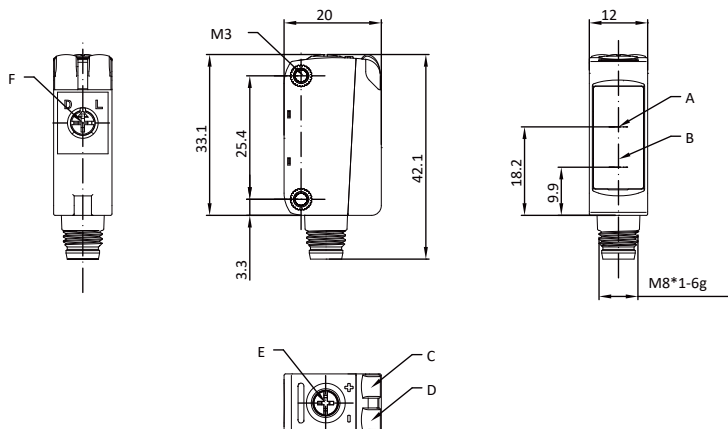
Dimensions (BGS / Diffused)

Cable



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

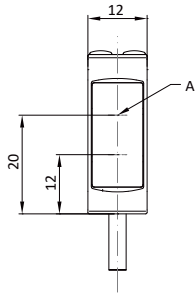
M8 connector



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

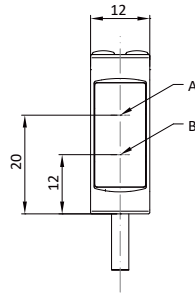
Dimensions (Opposed / Polarized Retro-reflective)

Cable



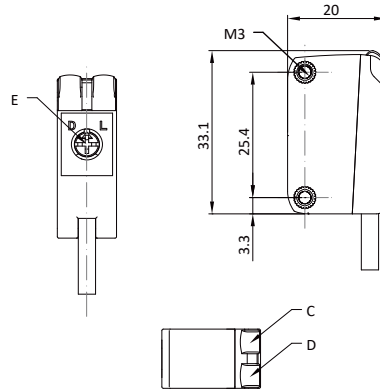
Opposed

- A: Receiver, emitter
- C: Output indicator
- D: Steady state indicator
- E: Adjustor for LO/DO

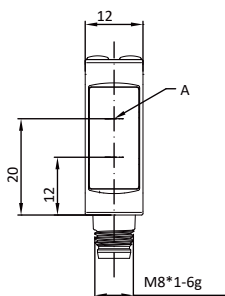


Polarized retro-reflective

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

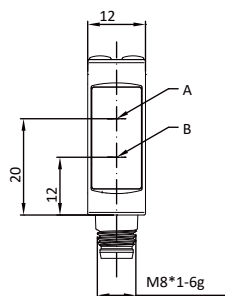


M8 connector



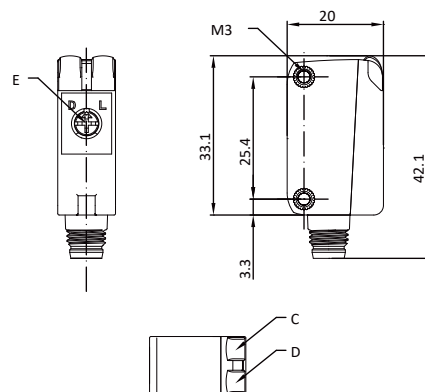
Opposed

- A: Receiver, emitter
- C: Output indicator
- D: Steady state indicator
- E: Adjustor for LO/DO



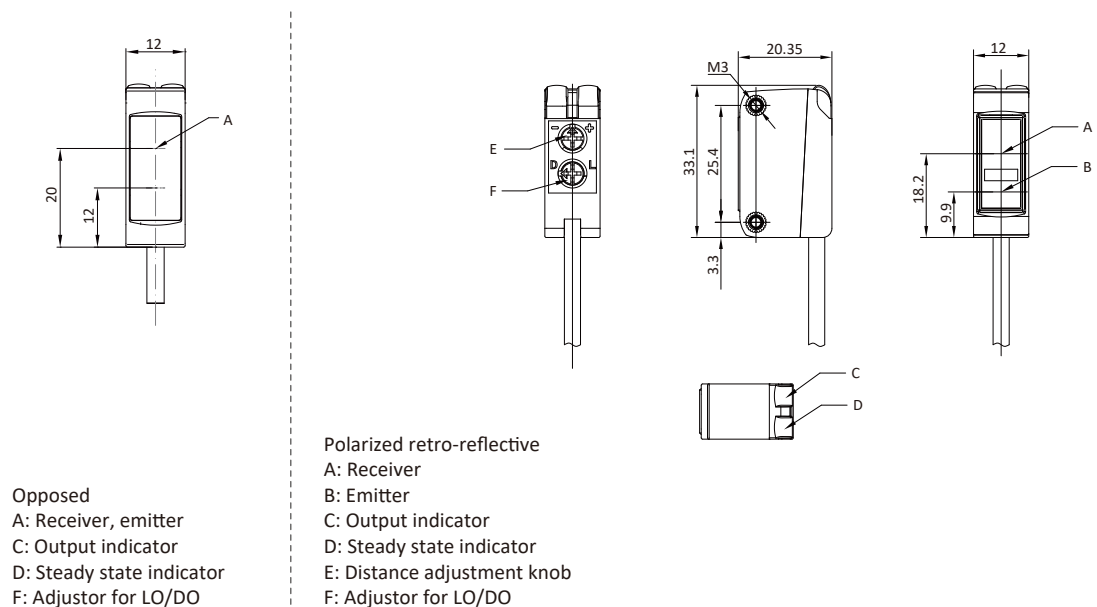
Polarized retro-reflective

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

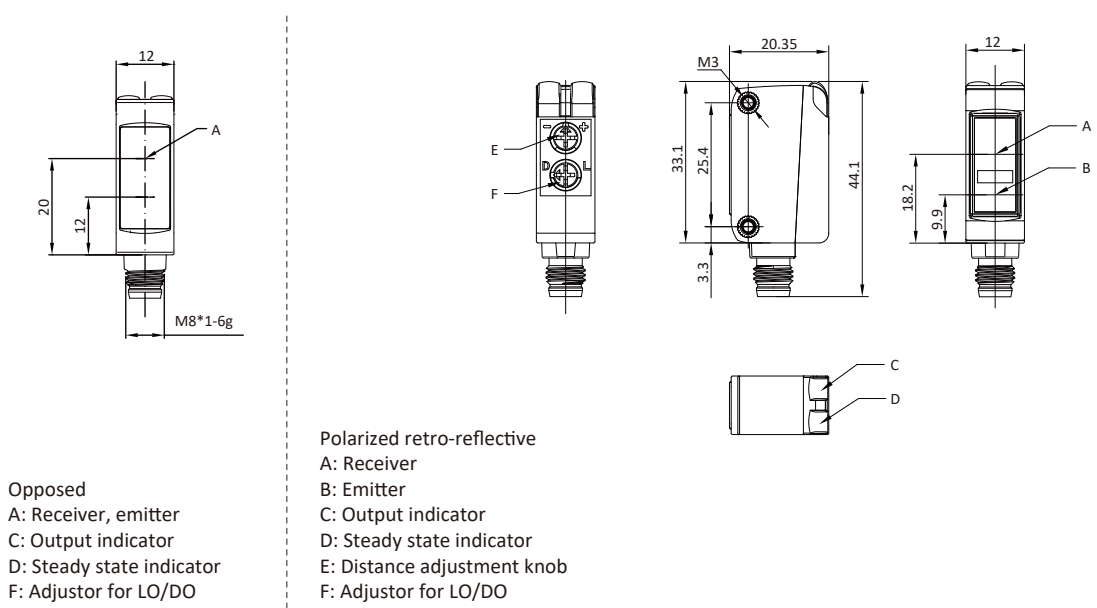


Dimensions (Opposed / Polarized Retro-reflective, Sensitivity Adjustment)

Cable



M8 connector





Description

Mini-rectangular photoelectric sensors OS10S series, with high performance and 25.4 mm standard mounting hole distance, red laser source, product series include 30 m opposed, 5 m polarized, 150 mm / 350mm BGS. They are suitable for logistics transportation, new energy and other application fields.

Features

- 150 mm / 350 mm BGS LO or DO adjustable
- Opposed and polarized retro-reflective, light / dark operate
- IP67

Type

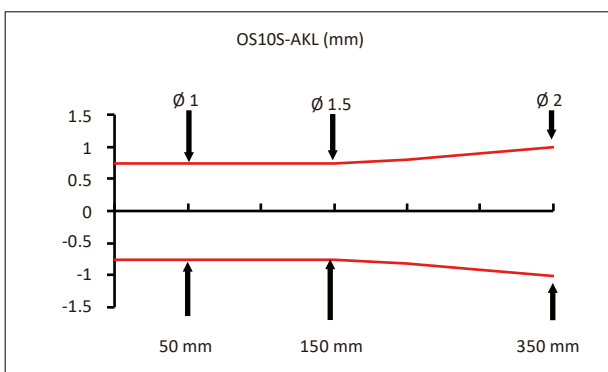
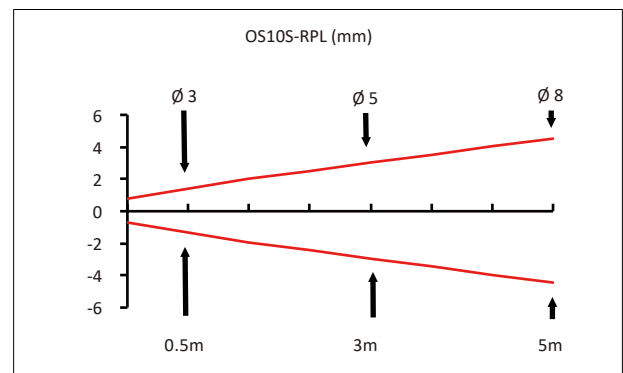
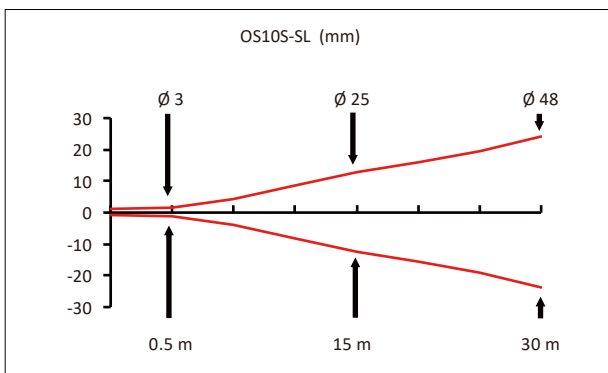
The detection distance corresponds to the reflector RB50*50-1

Detection mode	Type	Distance	Light source	Frequency	Output	Switching mode	Connection	Wiring
Opposed, Sensitivity adjustment	OS10S-SL6	30 m	Red laser	— —	— —	— —	2 m cable	Fig. 1
	OS10S-ELCN6/AP	30 m	— —	800 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-ELCP6/AP	30 m	— —	800 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-SL6Q8	30 m	Red laser	— —	— —	— —	M8 connector, 4-pin	Fig. 4
	OS10S-ELCN6Q8/AP	30 m	— —	800 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-ELCP6Q8/AP	30 m	— —	800 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-SL6Q8.3	30 m	Red laser	— —	— —	— —	M8 connector, 3-pin	Fig. 7
	OS10S-ELCN6Q8.3/AP	30 m	— —	800 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-ELCP6Q8.3/AP	30 m	— —	800 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
Polarized retro-reflective, Sensitivity adjustment	OS10S-RPLCN6/AP	5 m	Red laser	800 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-RPLCP6/AP	5 m	Red laser	800 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-RPLCN6Q8/AP	5 m	Red laser	800 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-RPLCP6Q8/AP	5 m	Red laser	800 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-RPLCN6Q8.3/AP	5 m	Red laser	800 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-RPLCP6Q8.3/AP	5 m	Red laser	800 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
BGS	OS10S-AKL150CN6	6 ... 150 mm	Red laser	300 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-AKL150CP6	6 ... 150 mm	Red laser	300 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-AKL150CN6Q8	6 ... 150 mm	Red laser	300 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-AKL150CP6Q8	6 ... 150 mm	Red laser	300 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-AKL150CN6Q8.3	6 ... 150 mm	Red laser	300 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-AKL150CP6Q8.3	6 ... 150 mm	Red laser	300 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9
	OS10S-AKL350CN6	6 ... 350 mm	Red laser	300 Hz	NPN	Light on / Dark on	2 m cable	Fig. 2
	OS10S-AKL350CP6	6 ... 350 mm	Red laser	300 Hz	PNP	Light on / Dark on	2 m cable	Fig. 3
	OS10S-AKL350CN6Q8	6 ... 350 mm	Red laser	300 Hz	NPN	Light on / Dark on	M8 connector, 4-pin	Fig. 5
	OS10S-AKL350CP6Q8	6 ... 350 mm	Red laser	300 Hz	PNP	Light on / Dark on	M8 connector, 4-pin	Fig. 6
	OS10S-AKL350CN6Q8.3	6 ... 350 mm	Red laser	300 Hz	NPN	Light on / Dark on	M8 connector, 3-pin	Fig. 8
	OS10S-AKL350CP6Q8.3	6 ... 350 mm	Red laser	300 Hz	PNP	Light on / Dark on	M8 connector, 3-pin	Fig. 9

Technical Data

Operating voltage	10 ... 30 V DC
Ripple voltage	≤ 10%
Light source	Red laser (650 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 impedance	≥ 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/s ² (50 G) 3 times X, Y, Z respectively
Protection class	IP67

Beam Pattern



Wiring

Cable

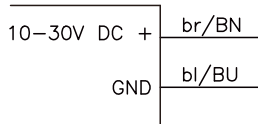


Fig. 1

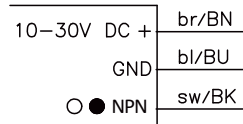


Fig. 2

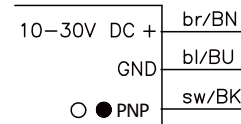


Fig. 3

M8 connector

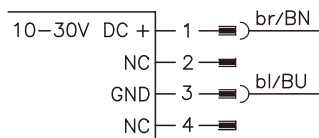


Fig. 4

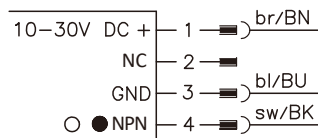


Fig. 5

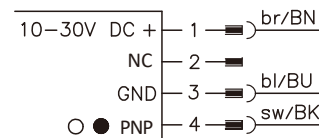


Fig. 6

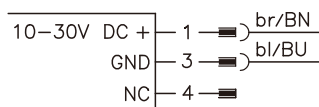


Fig. 7

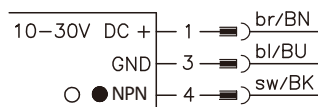


Fig. 8

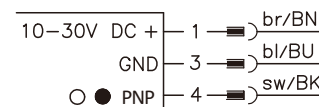
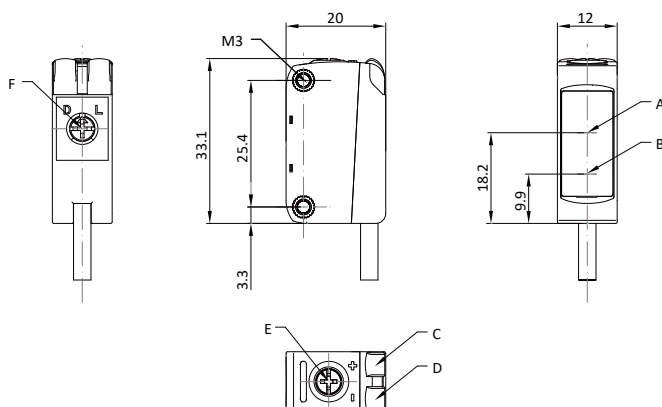


Fig. 9

Dimensions (BGS)

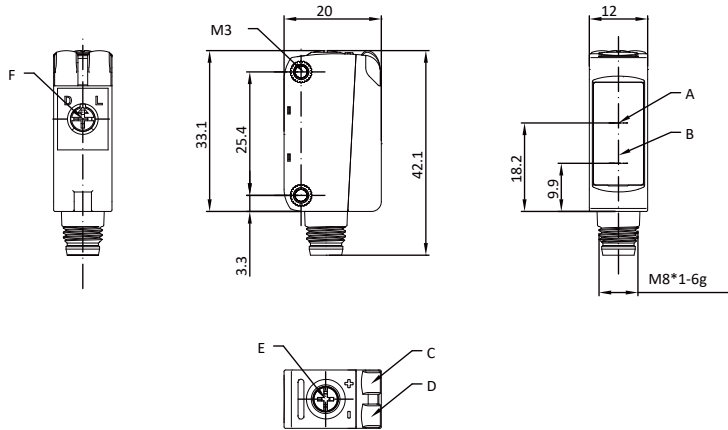
Cable



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

Dimensions (BGS)

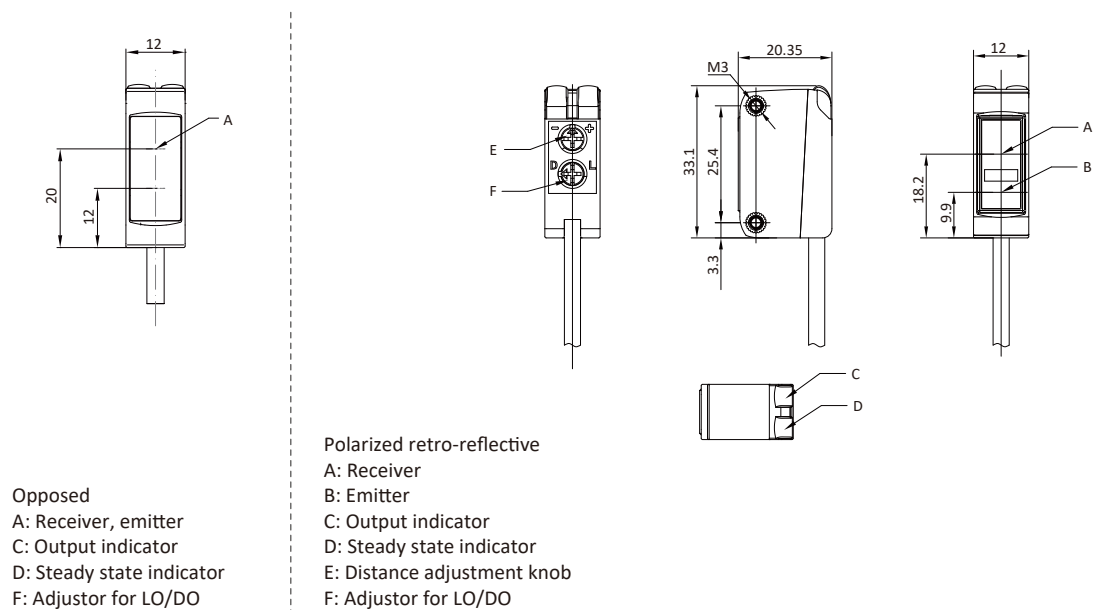
M8 connector



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

Dimensions (Opposed / Polarized Retro-reflective, Sensitivity Adjustment)

Cable

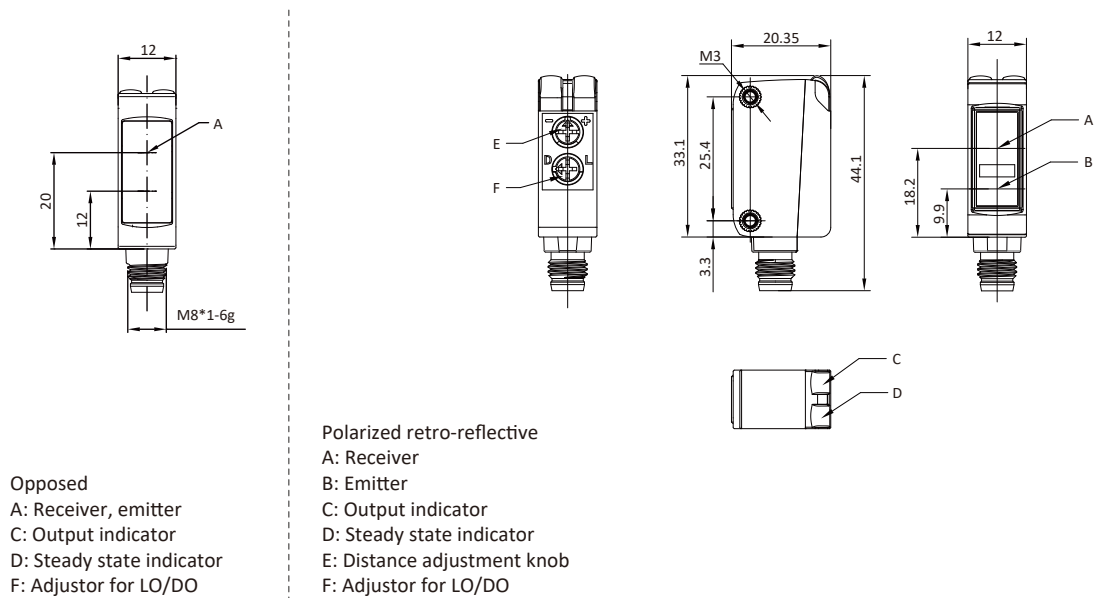


- Opposed**
- A: Receiver, emitter
 - C: Output indicator
 - D: Steady state indicator
 - F: Adjustor for LO/DO

- Polarized retro-reflective**
- A: Receiver
 - B: Emitter
 - C: Output indicator
 - D: Steady state indicator
 - E: Distance adjustment knob
 - F: Adjustor for LO/DO

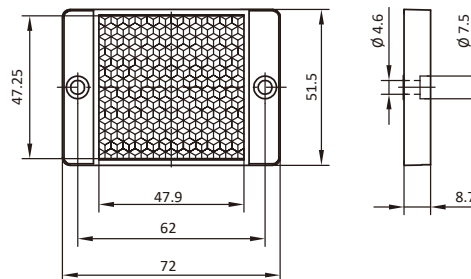
Dimensions (Opposed / Polarized Retro-reflective, Sensitivity Adjustment)

M8 connector



Reflector

RB50x50-1





Description

The compact body meets the needs of electronics, photovoltaic, semiconductor and other industries for compact space. The product has excellent black and white detection characteristics and can stably detect different colors, the object to be measured.

Features

- Triangulation ranging principle, high detection accuracy
- Ø 3 mounting holes, built-in metal parts, sturdy and long life
- Multiple output types

Type

Type	Distance	Light source	Frequency	Output	Resolution	Connection	Wiring
OS10U-KL300CB6	30 ... 300 mm	Red laser	500 Hz	Push-pull	1 mm	2 m cable	Fig. 1
OS10U-KL300/485	30 ... 300 mm	Red laser	— —	RS485	1 mm	2 m cable	Fig. 2
OS10U-KL300/IO	30 ... 300 mm	Red laser	— —	IO-Link	1 mm	2 m cable	Fig. 3

Technical Data

Operating voltage	10 ... 30 V DC
Light source	Red laser (655 nm) / class 1
Output type	Push-Pull, RS485, IO-Link
Switch mode	Light on / dark on
Distance adjustment	Teach button
Power	0.5 W
Load current	≤ 100 mA
Measurement accuracy	30 ... 100 mm (Repeatability 2 mm) 100 ... 300 mm (Repeatability 5 mm)
Spot diameter	1.2*1 mm@100 mm, 0.8*1 mm@250 mm, 1*1.2 mm@300 mm
Storage temperature	-25 ... +75 °C
Operating temperature	-20 ... +50 °C
Operating environment humidity	35% to 85%RH (no condensation)
Protection class	IP67
Protection circuit	Reverse polarity protection, short circuit protection, voltage impulse protection (1 KV/0.5J)
Voltage withstanding	650 V/AC 50/60 Hz 60 s
Insulation impedance	≥ 20 MΩ (500 V DC)
Shock resistance	Complex amplitude 1.5 mm 10 ... 50 Hz (2 hr X, Y,Z respectively)
Impact resistance	500 m/s ² (50 G) 3 times X, Y, Z respectively
Environment light immune	Sunlight interference ≤ 10000 Lux; Incandescent lamp ≤ 5000 Lux
Housing	PC + PMMA

Wiring

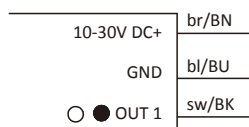


Fig. 1

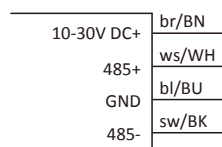


Fig. 2

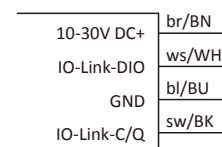
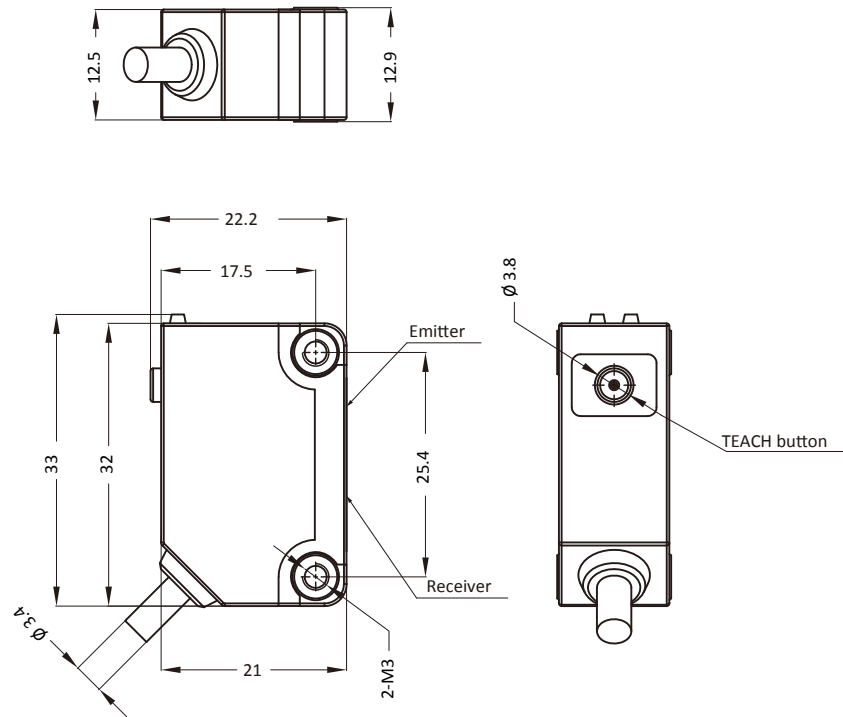


Fig. 3

Dimensions





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 m, 1.5 m, 4 m BGS adjustable with teach button
- IP67

Type

Detection mode	Type	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	

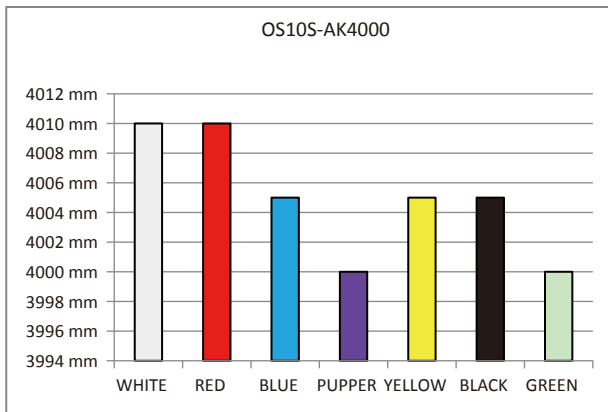
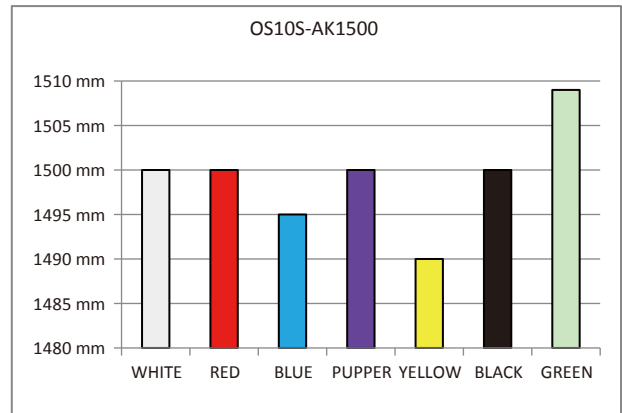
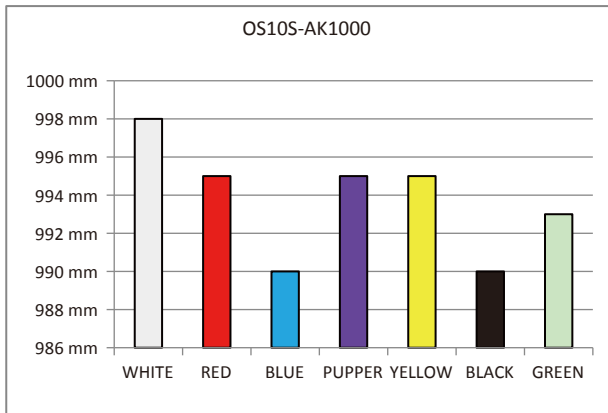
Type

Detection mode	Type	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

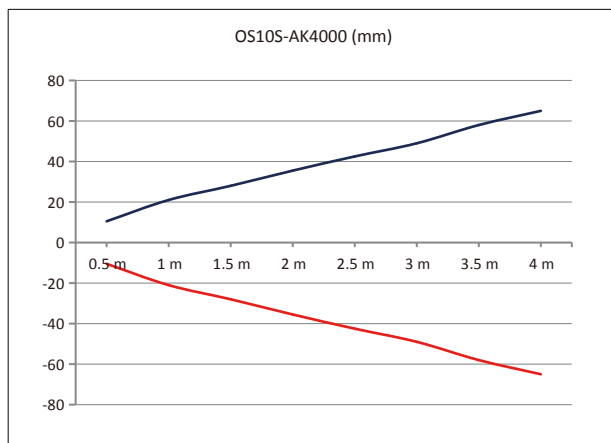
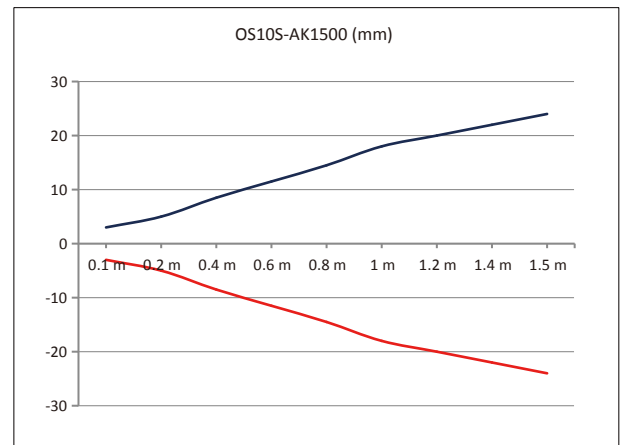
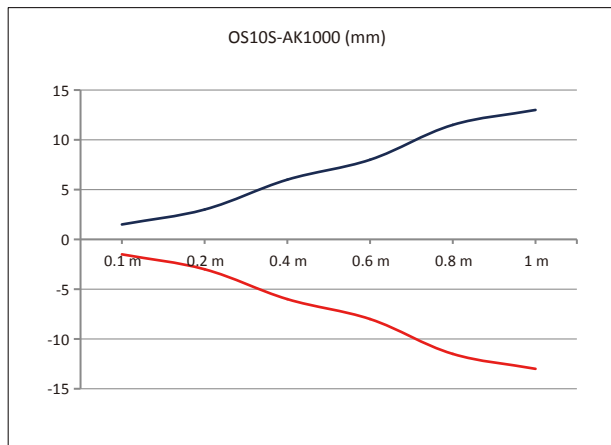
Technical Data

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 impedance	≥ 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/s ² (50 G) 3 times X, Y, Z respectively
Protection class	IP67

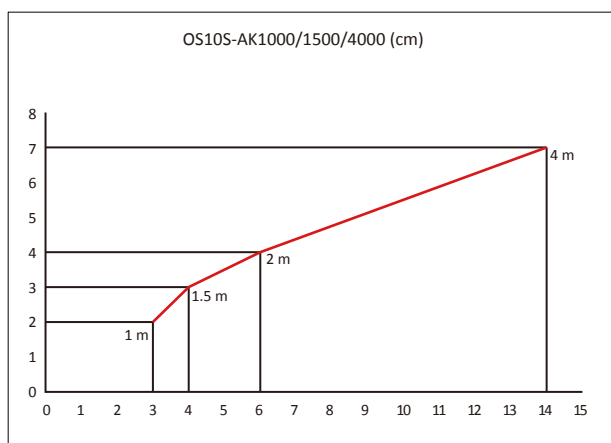
Attenuation Figure



Translation Characteristic Curve



Beam Pattern



Wiring

Cable

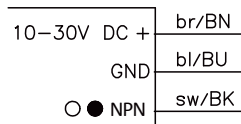


Fig. 1

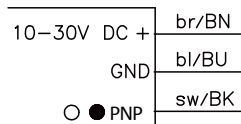


Fig. 2

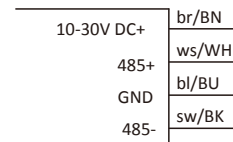


Fig. 3

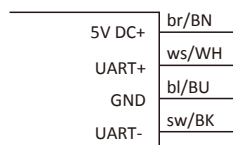


Fig. 4

M8 connector

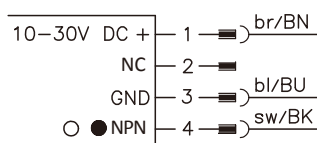


Fig. 5

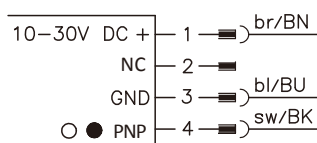


Fig. 6

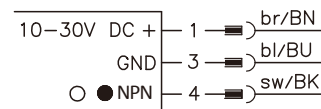


Fig. 7

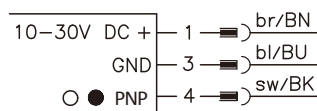


Fig. 8

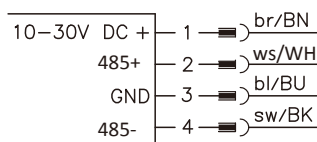
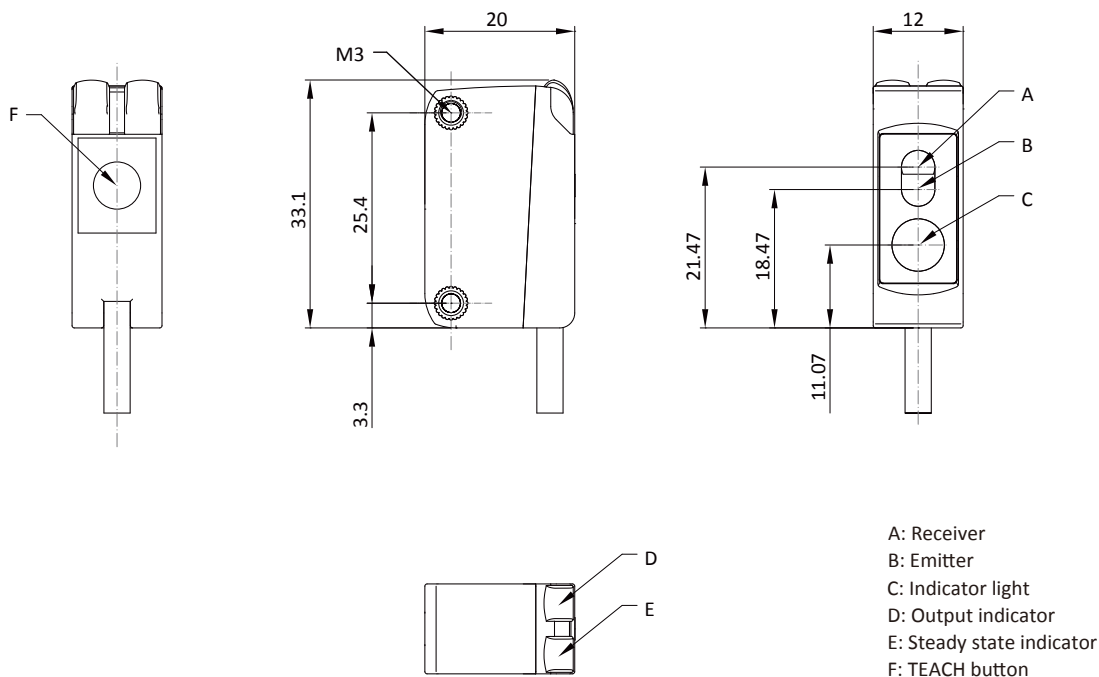


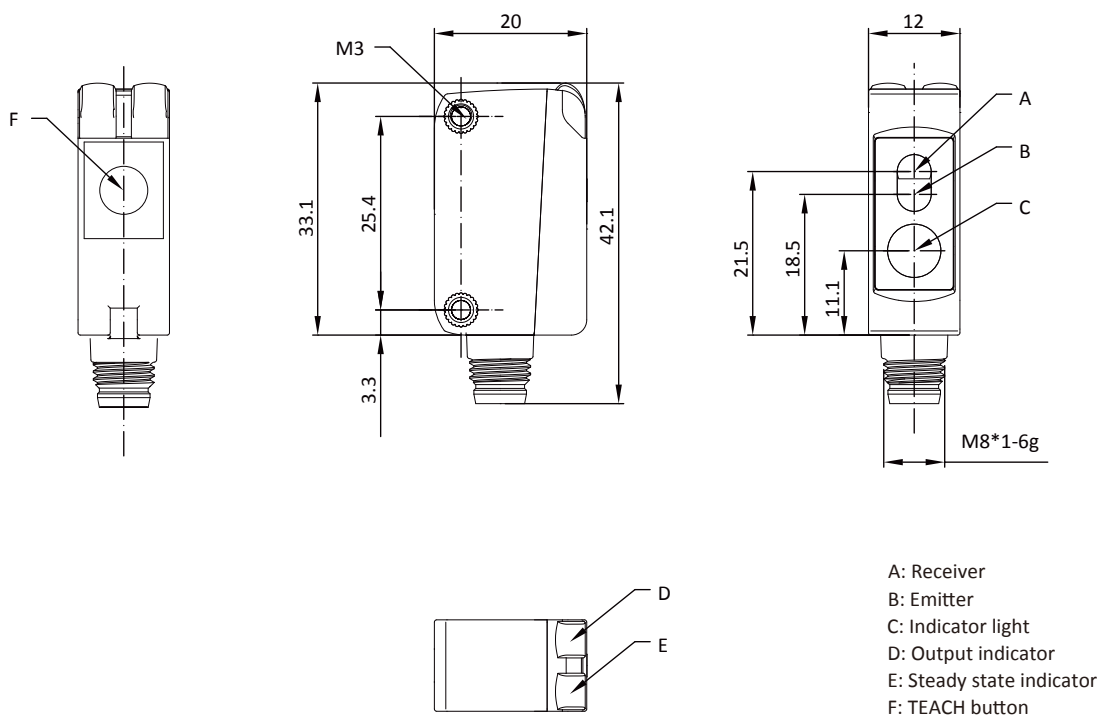
Fig. 9

Dimensions (BGS TOF)

Cable



M8 connector

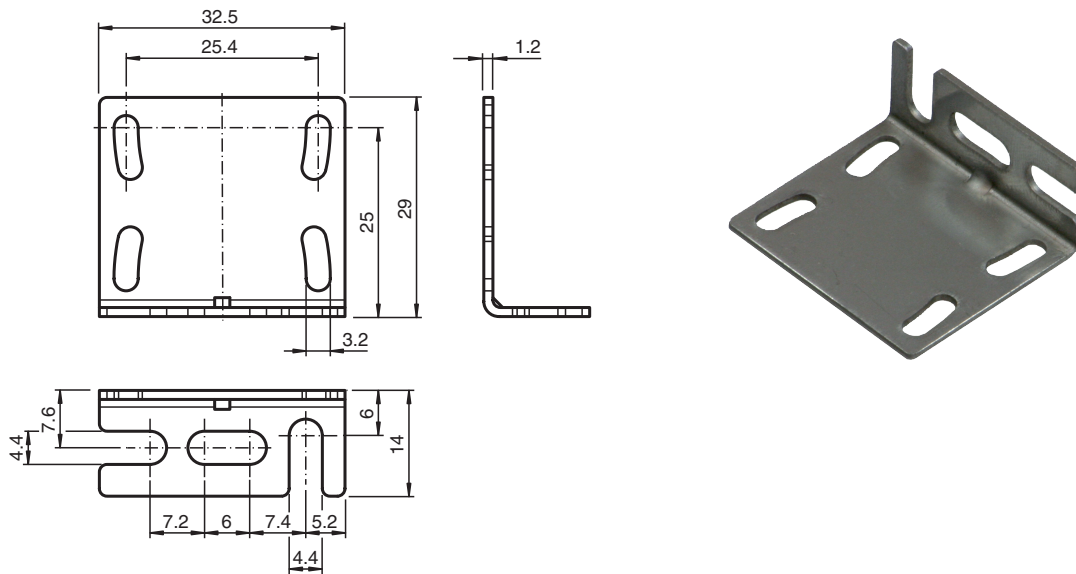


Montagehilfe

OMH-ML100-04

- Haltewinkel
- Einfache und schnelle Montage

Abmessungen



Technische Daten

Mechanische Daten

Material	Edelstahl
Masse	ca. 10 g
Befestigung	Befestigungsmaterial inklusive

Passende Serien

Serie	OS10 / OS10S
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