

BGS Sensor [New Photo Sensor]

KACON 최초 거리 설정 반사형 BGS 포토센서

KACON FIRST BGS SENSOR KES G / KES GL

BGS 센서 란?

배경색의 영향 없이 안정적으로
타겟 물체 검출 하는 포토·레이저 센서

BGS 포토 센서

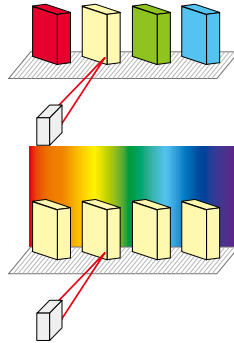
선명한 레드빔 사용으로
편리한검출 영역 확인 가능

KES G AP71/AP81	65mm
KES G A71/A81	150mm
KES G B71/B81	350mm

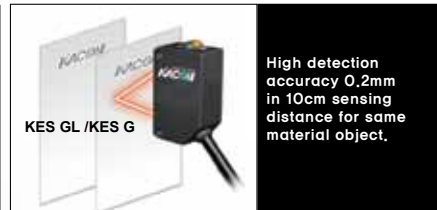
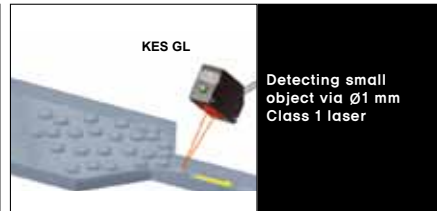
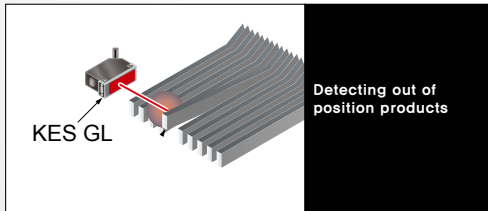
BGS 레이저 센서

- 0.4mW의 안전한 Class1 레이저 사용
- 최소 검출 물체 크기 : $\varnothing 2 \sim 3\text{mm}$

KES GL A71/A81	150mm
KES GL B71/B81	350mm



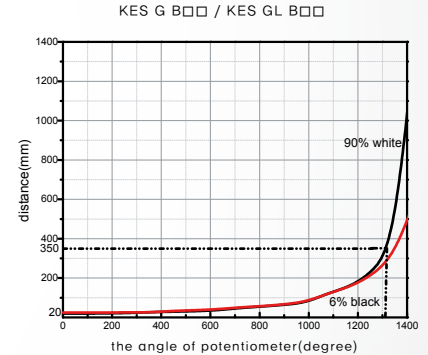
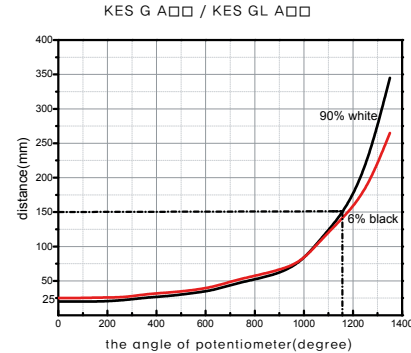
다양한 적용가능 환경



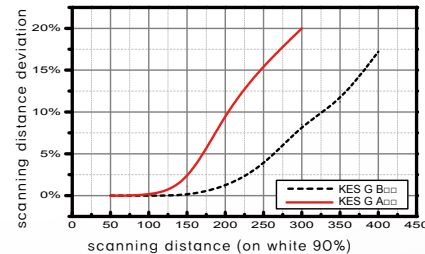
Technical Data

Operating voltage	10 ~ 30VDC ($\pm 10\%$)
Beam	RED LED (625nm) Class 1 Laser
검출 거리 조절	최대 4턴 멀티턴 볼륨 (스토퍼 없음)
Load current	Max. 100mA
LED indicator	Power : Green Detection : Yellow
Housing	Polycarbonate
Optical face	PMMA
Connection	2m cable , M8 connector
Ambient temperature	-25 ~ 55
Protection degree	IP67

BGS Sensor Features



Scanning distance difference Curve
(White 90%/black 6%)

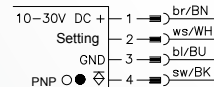
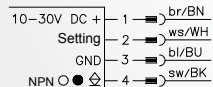
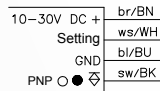
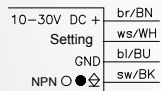


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Products selection

	Distance	Beam	Output	Connection
KES G AP71	5 ~ 65mm (움차거리 1%)	RED LED	NPN	2M Cable
KES G AP81			PNP	
KES G AP71 2			NPN	M8 connector
KES G AP81 2			PNP	
KES G A71	5 ~ 150mm (움차거리 1%)	RED LED	NPN	2M Cable
KES G A81			PNP	
KES G A71 2			NPN	M8 connector
KES G A81 2			PNP	
KES GL A71	5 ~ 150mm (움차거리 1%)	Class1 laser	NPN	2M Cable
KES GL A81			PNP	
KES GL A71 2			NPN	M8 connector
KES GL A81 2			PNP	
KES G B71	5 ~ 350mm (움차거리 5%)	RED LED	NPN	2M Cable
KES G B81			PNP	
KES G B71 2			NPN	M8 connector
KES G B81 2			PNP	
KES GL B71	5 ~ 350mm (움차거리 5%)	Class1 Laser	NPN	2M Cable
KES GL B81			PNP	
KES GL B71 2			NPN	M8 connector
KES GL B81 2			PNP	

Connection diagram

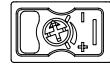


○ = Light on
● = Dark on

How to use

Position A

KES G Photosensor Sensing object Background object Status of distance setting knob



Place the detected object at the desired location and turn the adjustment knob clockwise until the operating light indicator (red) lights. This is Position A

Position B

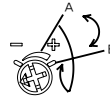
KES G Photosensor Sensing object Background object Status of distance setting knob



Remove the detected object and turn the adjustment knob clockwise until the operating light indicator (red) lights. Then turn the adjustment knob counterclockwise until the operating light indicator (red) goes out. This is Position B

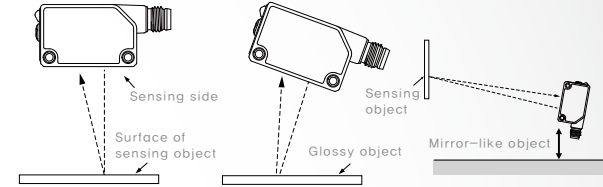
Setting

Status of distance setting knob



Set the adjustment to halfway between A and B. This is the best position of the stability test objects.

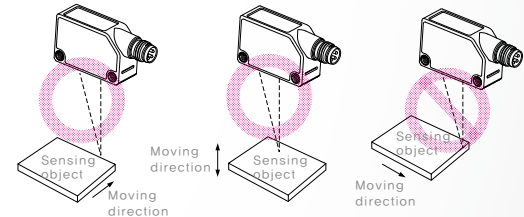
Mounting Directions



Make sure that the sensing side of the Sensor is parallel with the surface of the sensing objects. Normally, do not incline the Sensor towards the sensing object.

If the sensing object has a glossy surface, however, incline the Sensor by 5° to 10° as shown in the illustration, provided that the Sensor is not influenced by background objects.

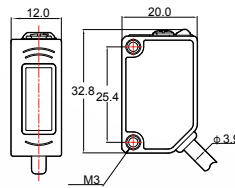
If there is a mirror-like object below the Sensor, the Sensor may not operate stably. Therefore, incline the Sensor or separate the Sensor shown below.



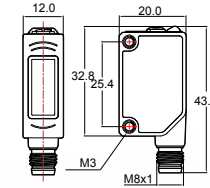
Do not install the Sensor in the wrong direction. Refer to the following illustration.

Dimension

Cable Type



M8 Connector Type



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