

OS22 SERIES PHOTOELECTRIC SENSOR



Product Description:

- Compact body, meeting the demand for compact space in industries such as electronics and semiconductors.
- BGS products have excellent black and white attenuation characteristics and can be used for detecting non bright flat objects.

Product Features:

- Point light source design, small angle scattered light
- $\phi 3$ mm mounting hole, built-in metal parts, sturdy, long-lasting
- Q12 - Pigtail product, the length of the cable can be customized



Type	Distance	Beam	Output	Connection	Wiring
OS22-AK15LN6-0.3-Q12	4...15mm	Red	NPN	*m cable + M12, 4-pin	Fig.1
OS22-AK15DN6-0.3-Q12	4...15mm	Red	NPN	*m cable + M12, 4-pin	Fig.2
OS22-AK15LP6-0.3-Q12	4...15mm	Red	PNP	*m cable + M12, 4-pin	Fig.3
OS22-AK15DP6-0.3-Q12	4...15mm	Red	PNP	*m cable + M12, 4-pin	Fig.4
OS22-AK30LN6-0.3-Q12	5...30mm	Red	NPN	*m cable + M12, 4-pin	Fig.1
OS22-AK30DN6-0.3-Q12	5...30mm	Red	NPN	*m cable + M12, 4-pin	Fig.2
OS22-AK30LP6-0.3-Q12	5...30mm	Red	PNP	*m cable + M12, 4-pin	Fig.3
OS22-AK30DP6-0.3-Q12	5...30mm	Red	PNP	*m cable + M12, 4-pin	Fig.4

Note : * refers to the cable length in meters.

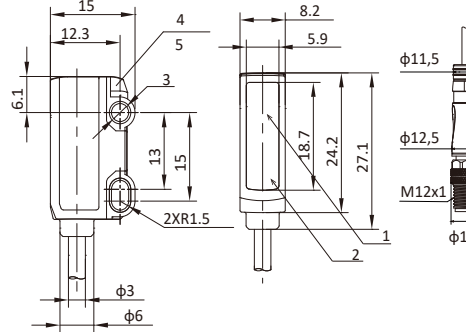
TECHNICAL SPECIFICATION

OPERATING VOLTAGE	10...30 V DC Class 2	AMBIENT TEMPERATURE OPERATION	-10°C...+50°C
LIGHT SOURCE TYPE	Red LED	AMBIENT TEMPERATURE STORAGE	-40°C...+70°C
OUTPUT CHARACTERISTIC	PNP/NPN	UL TEMPERATURE	50°C
LOAD CURRENT	≤100mA	CIRCUIT PROTECTION	Short-circuit protection, reverse polarity protection, over-load protection
SWITCHING FREQUENCY	200Hz	PROTECTION DEGREE	IP67
CONNECTING TYPE	0.3m cable + M12, 4-pin		
HOUSING MATERIAL	PC+PBT		

OS22 SERIES PHOTOELECTRIC SENSOR



DIMENSIONS



INDICATORS

1	Receiver	
2	Emitter	
3	Mounting hole	$\phi 3.0$ mm
4	Steady state indicator	Green
5	Output indicator	Yellow
6	M12 Connector	

ELECTRICAL CONNECTION

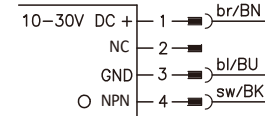


Fig.1

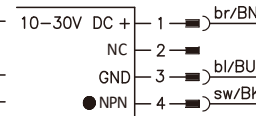


Fig.2

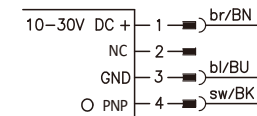


Fig.3

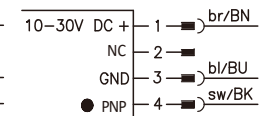


Fig.4

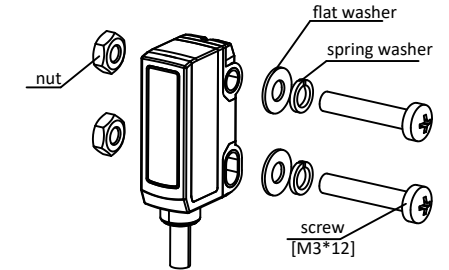
SAFETY PRECAUTIONS

⚠ DANGER	This product is for the purpose of object detection only. Do not use this product for the purpose of protecting human body or human body parts. This product should not be used as an explosion-proof product. Do not use this product in dangerous places or in the environment of potentially explosive gases. Failure to use the control or adjustment device or perform the steps in accordance with this regulation may result in harmful radiation exposure.
⚠ WARN	This product is a sensor with DC power supply. Please do not apply AC power supply. If AC voltage applied, the product may explode or catch fire.
NOTICE	Do not use the same wiring with the power cord and high-voltage line, otherwise the main module may fail or be damaged due to noise. When using a commercially available switching regulator, be sure to ground the housing ground terminal and the ground terminal. Please do not use this product outdoors.

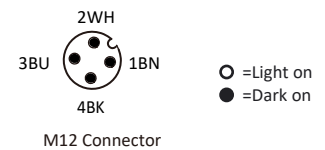
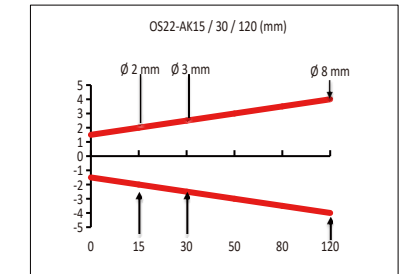
N'utilisez pas le même câblage avec le cordon d'alimentation et la ligne à haute tension, sinon le module principal peut tomber en panne ou être endommagé en raison du bruit. Lorsque vous utilisez un régulateur de commutation disponible dans le commerce, assurez-vous de mettre à la terre le terminal d'habitation et le terminal de terre. Veuillez ne pas utiliser ce produit à l'extérieur.

INSTALL

Recommended to use M3*12 screw for fastening
Tightening torque ≤ 0.5N.m



SPOT PATTERN



MAINTAIN

Disassemble; please return to Elco

产品说明:

- 小巧机身，满足电子，半导体等行业对紧凑空间的需求。
- BGS产品具有优良的黑白衰减特性，使用与检测非光亮平面物体。

产品特点:

- 点光源设计，小角度发散光
- φ3mm安装孔，内置金属件，坚固，长寿命
- Q12 - Pigtail 产品，线缆长度可定制



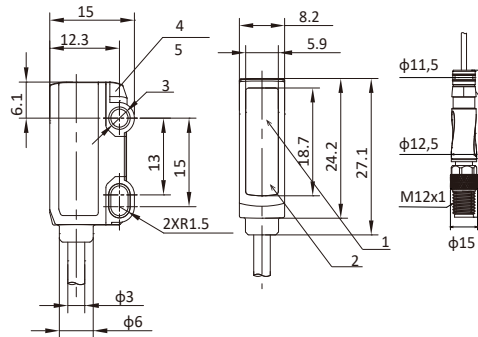
型号	检测距离	光源	输出方式	连接方式	接线图
OS22-AK15LN6-0.3-Q12	4...15mm	红光	NPN	*m线缆 + M12连接器, 4针	图1
OS22-AK15DN6-0.3-Q12	4...15mm	红光	NPN	*m线缆 + M12连接器, 4针	图2
OS22-AK15LP6-0.3-Q12	4...15mm	红光	PNP	*m线缆 + M12连接器, 4针	图3
OS22-AK15DP6-0.3-Q12	4...15mm	红光	PNP	*m线缆 + M12连接器, 4针	图4
OS22-AK30LN6-0.3-Q12	5...30mm	红光	NPN	*m线缆 + M12连接器, 4针	图1
OS22-AK30DN6-0.3-Q12	5...30mm	红光	NPN	*m线缆 + M12连接器, 4针	图2
OS22-AK30LP6-0.3-Q12	5...30mm	红光	PNP	*m线缆 + M12连接器, 4针	图3
OS22-AK30DP6-0.3-Q12	5...30mm	红光	PNP	*m线缆 + M12连接器, 4针	图4

注:*表示线缆长度,单位米。

技术参数

工作电压	10...30 V DC Class 2	工作温度	-10°C...+50°C
光源	红光 LED	环境温度	-40°C...+70°C
输出特性	PNP/NPN	UL温度	50°C
负载电流	≤100mA	保护电路	短路保护 反极性保护 输出过载保护
开关频率	200Hz	防护等级	IP67
连接方式	0.3m线缆 + M12连接器, 4针		
外壳	PC+PBT		

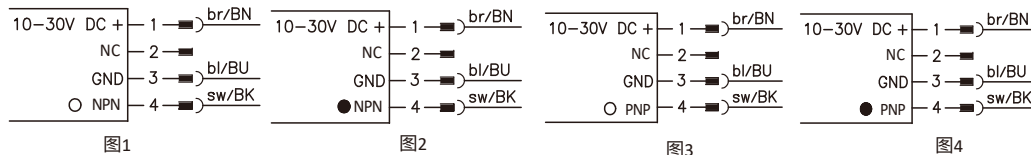
外形尺寸



操作指示

1	接收端	
2	发射端	
3	安装孔	φ 3.0mm
4	稳态指示灯	绿色
5	输出指示灯	黄色
6	M12连接器	

接线图



安全防御措施

▲危险	- 本产品仅供目标物检测之用，请勿将本产品用于保护人体或人体部位等目的。 - 本产品不得作为防爆产品使用，请勿在危险场所或潜在爆炸气体的环境中使用本产品。 - 若不按此规定使用控制或调整装置、或执行各步操作，就可能引起有害的辐射照射。
▲警告	本产品是采用直流供电的传感器，请勿施加交流电源，如果施加交流电压，则可能导致产品爆炸或起火。
注意	- 请勿与电源线和高压线使用同一配线，否则可能因噪声声导致主模块发生故障或受损。 - 使用市面所售的开关稳压器时，请务必将壳体接地端子和接地端子接地。 - 请勿在室外使用本产品。



维修

禁止客户拆解产品，请返厂维修