

OS10S SERIES PHOTOELECTRIC SENSOR



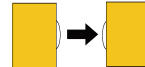
Product Description:

- High performance small square type photoelectric sensor, standard mounting aperture 25.4mm, for 10m of red dot light source to illuminate.

- Suitable for logistics, photovoltaic, lithium, AGV and other industries

Product features:

- The brightness and darkness of the beam can be adjusted, Adjustable detection distance
- IP67 protection rating



Type	Distance	light source	Output	Connection	Wiring
OS10S-S6-*-Q8 ¹⁾	10m	Red LED 630nm	— —	*m pigtail + M8 Connector, 4pin	Fig.1
OS10S-ECN6-*-Q8/AP ¹⁾	10m	— —	NPN	*m pigtail + M8 Connector, 4pin	Fig.2
OS10S-ECP6-*-Q8/AP ¹⁾	10m	— —	PNP	*m pigtail + M8 Connector, 4pin	Fig.3
OS10S-S6-*-Q8.3 ¹⁾	10m	Red LED 630nm	— —	*m pigtail + M8 Connector, 3pin	Fig.4
OS10S-ECN6-*-Q8.3/AP ¹⁾	10m	— —	NPN	*m pigtail + M8 Connector, 3pin	Fig.5
OS10S-ECP6-*-Q8.3/AP ¹⁾	10m	— —	PNP	*m pigtail + M8 Connector, 3pin	Fig.6

Note 1): * refers to the pigtail cable length in meters. Example:0.3 represents 0.3 meters pigtail.

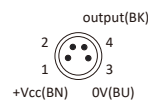
TECHNICAL SPECIFICATION

OPERATING VOLTAGE	10...30VDC Class 2	AMBIENT TEMPERATURE OPERATION	-20°C...+60°C
LIGHT SOURCE TYPE	Red LED	AMBIENT TEMPERATURE STORAGE	-40°C...+70°C
OUTPUT CHARACTERISTIC	PNP/NPN	CIRCUIT PROTECTION	Short-circuit protection, reverse polarity protection, over-load protection
LOAD CURRENT	≤100mA		IP67
SWITCHING FREQUENCY	800Hz	PROTECTION DEGREE	
ADJUSTMENT OF OPERATING DISTANCE	Adjustment		
SWITCH MODE	Light On or Dark on	HOUSING MATERIAL	PC+PBT, PMMA
SPOT SIZE	φ40mm@2m	CONNECTING TYPE	*m pigtail + M8 Connector
UL TEMPERATURE	50°C		

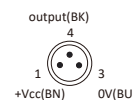
MAINTAIN

Disassemble, please return to Elco

M8 Connector 4pin



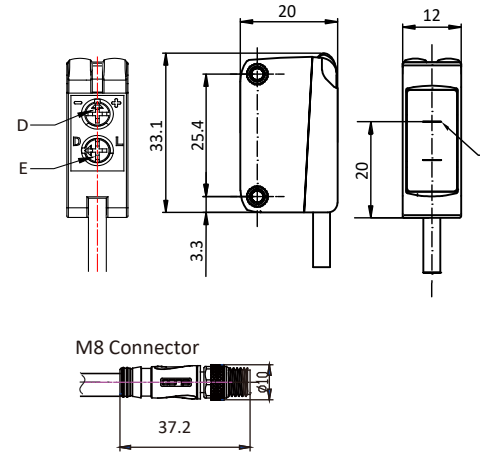
M8 Connector 3pin



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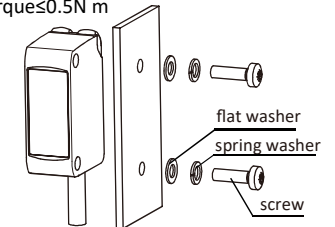


DIMENSIONS



INSTALL

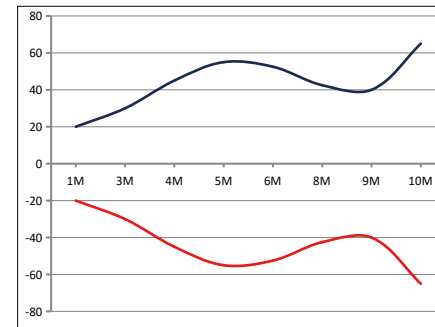
Recommended to use M3*0.5 screw for fastening
Tightening torques 0.5N m



INDICATORS

A	Receiver/Emitter	
B	Output indicator	Yellow
C	Power indicator	Green
D	Distance adjustment knob	
E	Switch mode setting	L.O. or D.O.

PARALLEL MOVEMENT CHARACTERISTIC CURVE



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	Ce produit est à des fins de détection d'objets seulement. N'utilisez pas ce produit dans le but de protéger le corps humain ou des parties du corps humain. Ce produit ne doit pas être utilisé comme produit antidéflagrant. Ne pas utiliser ce produit dans des endroits dangereux ou dans l'environnement de gaz potentiellement explosifs. La non-utilisation du dispositif de commande ou de réglage ou l'exécution des étapes conformément au présent règlement peut entraîner une exposition aux rayonnements nocifs.
NOTICE	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. Ce produit est un capteur avec alimentation cc. Veuillez ne pas appliquer d'alimentation en courant alternatif. En cas de tension, le produit peut exploser ou prendre feu.
	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.

ELECTRICAL CONNECTION

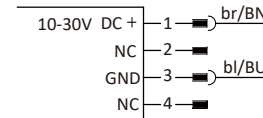


Fig.1

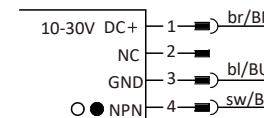


Fig.2

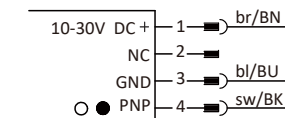


Fig.3

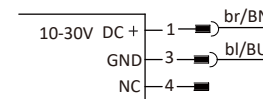


Fig.4

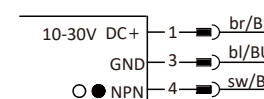


Fig.5

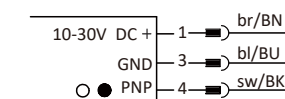


Fig.6

○ = Light on
● = Dark on

OS10S系列光电传感器

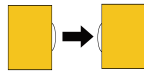


产品说明:

- 高性能小方型光电传感器, 标准安装孔径25.4mm, 红光点光源10m对射
- 适用于物流输送、光伏、锂电、AGV等行业

产品特点:

- 亮暗通, 检测距离可调
- IP67防护等级



型号	检测距离	光源	输出方式	连接方式	接线图
OS10S-S6-*-Q8 ¹⁾	10m	红光630nm	— —	*m pigtail +M8连接器 4pin	图1
OS10S-ECN6-*-Q8/AP ¹⁾	10m	— —	NPN	*m pigtail +M8连接器 4pin	图2
OS10S-ECP6-*-Q8/AP ¹⁾	10m	— —	PNP	*m pigtail +M8连接器 4pin	图3
OS10S-S6-*-Q8.3 ¹⁾	10m	红光630nm	— —	*m pigtail +M8连接器 3pin	图4
OS10S-ECN6-*-Q8.3/AP ¹⁾	10m	— —	NPN	*m pigtail +M8连接器 3pin	图5
OS10S-ECP6-*-Q8.3/AP ¹⁾	10m	— —	PNP	*m pigtail +M8连接器 3pin	图6

注1): *表示猪尾巴长度, 单位米, 例如:*为0.3表示0.3米猪尾巴。

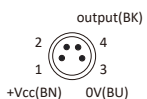
技术参数

工作电压	10...30VDC Class 2	工作温度	-20°C...+60°C
光源	红光 LED点光源	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 过载保护
开关频率	800Hz	防护等级	IP67
检测距离调节	可调节	外壳	PC+PBT, PMMA
开关模式设置	亮通/暗通	连接方式	M8 连接器
光斑尺寸	φ40mm@2m		

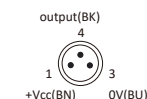
维修

禁止客户拆解产品, 请返厂维修

M8连接器 4pin



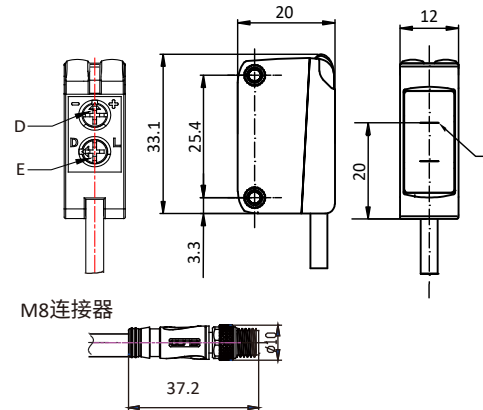
M8连接器 3pin



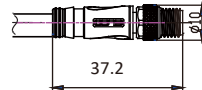
OS10S系列光电传感器



外形尺寸

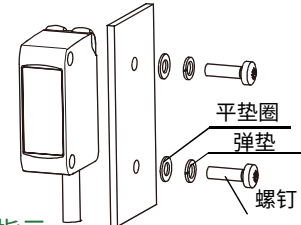


M8连接器



安装

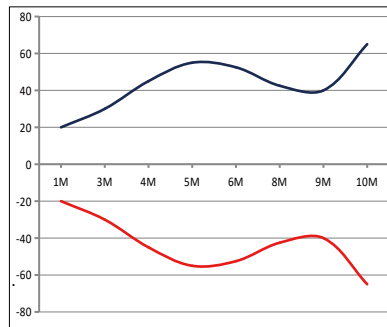
建议使用M3*0.5螺钉紧固, 拧紧力矩≤0.5N.m



操作指示

A	接收端/发射端	
B	输出指示灯	黄色
C	电源稳态指示灯	绿色
D	距离调节旋钮	
E	开关模式设置	亮通/暗通

平移特性曲线



安全防护措施

危险	●本产品仅供目标检测之用, 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, 否则可能因噪音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 and 接地端子接地。 ●请勿在室外使用本产品。

接线图

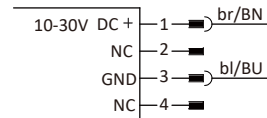


图1

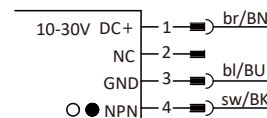


图2

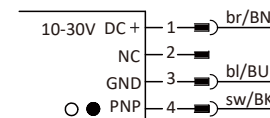


图3

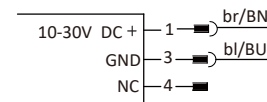


图3

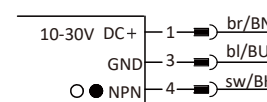


图4

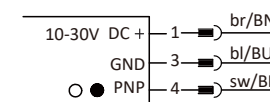


图5

○ = 亮通
● = 暗通