



安全 传感 检测

深圳市施特安邦科技有限公司
SHENZHEN SHI TE AN BANG TECHNOLOGY CO., LTD.



公司简介/COMPANY PROFILES

深圳市施特安邦科技有限公司成立于2013年，是一家集研发、设计、生产工业安全传感器的高科技企业。自主品牌 **STANBON®** 施特安邦 已成为工业安全领域的知名品牌！公司品牌 **STANBON®** 安全光栅产品以其安全可靠的性能、功能强大的设计，人性化的控制及优秀的性价比在国内外市场赢得了良好的信誉；施特安邦创立伊始，本着‘守规矩、制精品、图进取、创大业’的企业格言；为每位客户提供更加安全的工作场所。公司拥有专业开发团队，先后推出多款达到四级安全标准的安全光栅，均通过了欧盟ECM机构CE4级，SIL功能3级和美国FCC认证。是国际质量管理ISO9001认证的企业。对所有产品都严格按照欧洲CE和美国FCC的标准执行，以确保每套产品是高品质、高性能的合格品；广泛应用于市场，并获得了市场的认可。已成功应用在华为，大疆创新，vivo，隆基绿能，宁德时代，一汽奥迪、富士康集团、伟创力、艾默生、比亚迪、新松机器人等国内外知名企业。努力为客户提供更加安全的工作场所是公司持续追求的目标。

Shenzhen STANBON Technology Co., Ltd. was founded in 2013, is a set of R & D, design, production of industrial safety sensors of high-tech enterprises. Our own brand **STANBON®** 施特安邦 has become a well-known brand in the field of industrial safety! The company's brand **STANBON®** 施特安邦 safety grating products with its safe and reliable performance, powerful design, humanized control and excellent cost-effective in the domestic and foreign markets won a good reputation; At the beginning of its establishment, the spirit of 'abide by the rules, make quality products, chart progress, create great cause' business motto; A safer workplace for every customer. The company has a professional development team, has launched a number of safety grating to meet the four-level safety standards, have passed the EU ECM institution CE4 level, SIL function level 3 and the United States FCC certification. It is an international quality management ISO9001 certified enterprise. All products are strictly in accordance with the European CE and the United States FCC standards to ensure that each set of products is high-quality, high-performance qualified products; It is widely used in the market and has been recognized by the market. It has been successfully applied in Huawei, DJI Innovation, vivo, Longji Green Energy, Ning De Times, FAW Audi, Foxconn Group, Flextronics, Emerson, BYD, Siasun Robot and other well-known enterprises at home and abroad. Striving to provide a safer workplace for our customers is an ongoing goal of the company.

荣誉证书

Certificate of honor



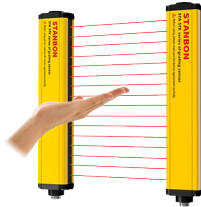
STK-P(J)抗阳光安全光栅

STK-P(J) ANTI-SUNLIGHT SAFETY GRATING



多种检测类型 (Multiple detection types)

根据最小检测物体的大小不同，两种常规类型选择
Depending on the size of the smallest detected object, two conventional types are selected



间距20mm手掌检测效果图
Spacing 20mm palm detection effect



间距40mm
手臂、脚、身体检测效果图
Distance 40mm arm, foot, body detection effect

特性 PECULIARITY

- 抗阳光安全光栅不惧太阳光照射对射距离可达10米，输出稳定，反应迅速；
- 红外光同步技术，支持双端分立供电，抗电磁干扰能力强；
- 采用原装国际大品牌大功率贴片元件和国际最新技术，实现盲区无效长度更加短小；
- 通过CPU对光点进行周期性扫描工作，超长距离感应；
- 内置式聚光透镜，抗弧光、电焊等光源干扰能力强；
- 强大的负载能力，输出电流可达150mA，接线简单，配置NPN/PNP双信号接口；
- 具有良好的抗震性能，元器件采用SMT技术，采取多项抗震措施，具有良好的现场适用能力；
- 可选配QC型内置控制器使用，安装简单，经济实惠；
- 连续串联，可根据不同保护需求用几组光栅组成异形串联光栅实现曲面安全防护（需定制）；
- 符合国际电工学会EN 61496-1、EN 61496-2、EN ISO 13849-1标准之4类安全等级，按照欧盟标准设计，已通过CE (TYPE 4) 认证；取得CE4级安全认证 EN 61496-1:2013(TYPE4), EN 61496-2:2013(TYPE4), EN ISO 13849-1:2015(PL e), IEC 61508:2010 Parts 1-7

- The anti-sunlight safety grating is not afraid of sunlight irradiation distance up to 10 meters, stable output, rapid response;
- Infrared synchronization technology, support two-end discrete power supply, strong anti-electromagnetic interference ability;
- The use of original international brands of high-power patch components and the latest international technology, to achieve the blind area inavlid length is shorter;
- Periodically scan the light spot through the CPU, ultra-long distance sensing;
- Built-in condenser lens, anti-arc light, welding and other light source interference ability;
- Strong load capacity, output current up to 150mA, simple wiring, NPN/PNP dual signal interface;
- With good seismic performance, the components adopt SMT technology, take a number of seismic measures, has a good field application ability;
- Optional QC type built-in controller, easy to install, economical;
- Continuous series, according to different protection needs with several groups of grating to form a special-shaped series grating to achieve curved surface safety protection (need to be customized);
- In line with the International Electrotechnical Society EN 61496-1, EN 61496-2, EN ISO 13849-1 standard of Class 4 safety level, according to the European standard design, has passed the CE (TYPE 4) certification; Obtained CE4 level safety certification EN 61496-1:2013(TYPE4), EN 61496-2:2013(TYPE4), EN ISO 13849-1:2015(PL e), IEC 61508:2010 Parts 1-7

产品参数	PRODUCT PARAMETER		
检测高度	DETECTION HEIGHT	100×2840mm	
截面尺寸	SECTION SIZE	50×35mm	
检测距离	DETECTION DISTANCE	0-6m/0-10m	
光轴数量	NUMBER OF OPTICAL AXES	6-100	
光轴间距(分辨率)	OPTICAL AXIS SPACING (RESOLUTION)	20mm/40mm	
红外波长	INFRARED WAVELENGTH	940nm	
同步性	SYNCHRONISM	光同步/线同步	Optical synchronization/line synchronization
最大功率	MAXIMUM POWER	≤15W	
响应时间	RESPONSE TIME	4-18ms	
供电电压	SUPPLY VOLTAGE	DC12-24V	
输出方式	OUTPUT MODE	NPN/PNP	
输出电流	OUTPUT CURRENT	≤150mA	
外壳保护等级	CASE PROTECTION CLASS	IP54	
工作温度	OPERATING TEMPERATURE	-10-55℃	
储存温度	STORAGE TEMPERATURE	-20-70℃	
相对湿度	RELATIVE HUMIDITY	15%-85%	
抗冲击	IMPACT-RESISTANT	10g/20ms	
抗电磁干扰	ANTI-ELECTROMAGNETIC INTERFERENCE	3000V以上群脉冲	Group pulses above 3000V
扫描时间	SCANNING TIME	<18ms	

型号说明 MODEL SPECIFICATION

STK 20 - P(J) 06 NC - 06

感应距离: 06代表6m, 10代表10m

Sensing distance: 06 represents 6m, 10 represents 10m

输出方式: NC代表常闭, NO代表常开

Output mode: NC indicates normally closed, NO indicates normally open

光轴数量: 06代表6光轴, 08代表8光轴

Number of optical axes: 06 represents 6 optical axes, 08 represents 8 optical axes

P表示抗阳光(默认); PJ表示抗激光、弧光(选配)

P stands for sun resistance (default); PJ for laser and arc resistance (optional)

光轴间距: 20代表20mm, 40代表40mm

Optical axis spacing: 20 represents 20mm, 40 represents 40mm

系列名: 超长距离感应型安全光栅

Series name: Ultra-long distance induction safety grating

光栅与安装支架尺寸图 PRODUCT SIZE DRAWING

规格长度计算公式

当D=20mm, A=20; B=55

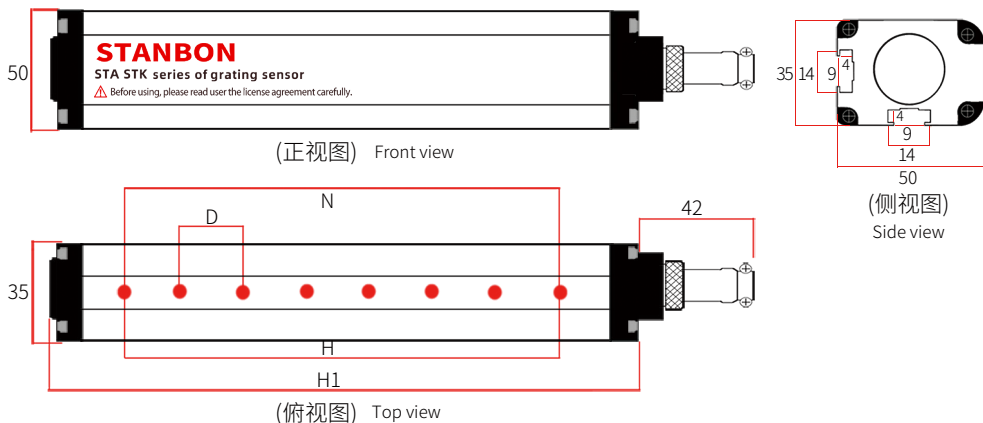
H(保护高度)=(光轴数量N-1) x 光轴间距D

H1(外壳高度)=保护高度H+上盲区A+下盲区B

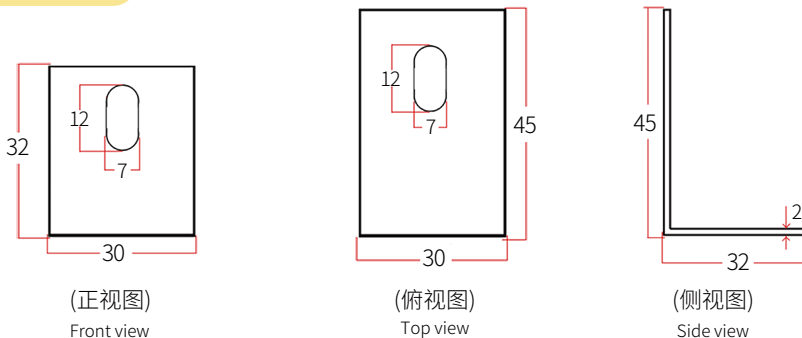
当D=40mm, A=30; B=55

H(保护高度)=(光轴数量N-1) x 光轴间距D

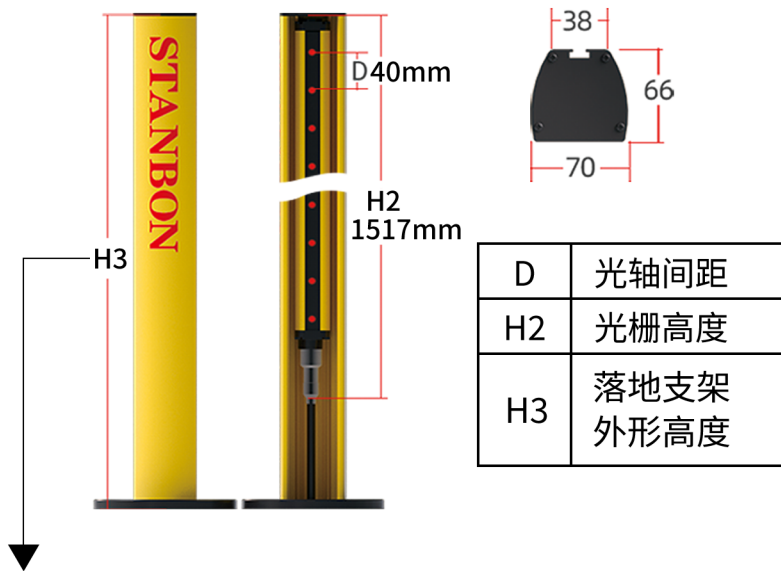
H1(外壳高度)=保护高度H+上盲区A+下盲区B



支架尺寸图

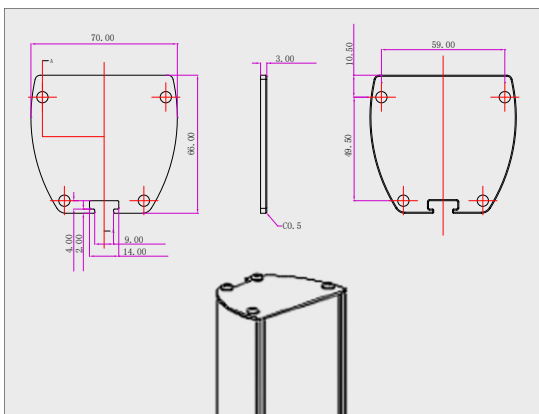


STK40-P36NC

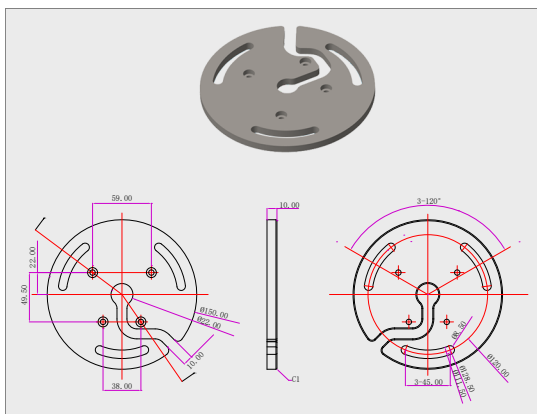


20mm光轴间距40mm光轴间距选配
通用落地支架尺寸:1米 1.2米 1.5米 1.8米
还可以定制支架高度

支架上盖

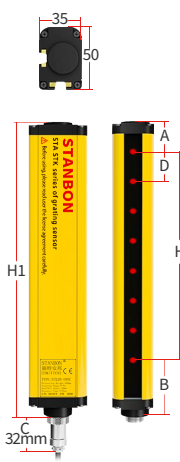


支架底座



STK-P(J)抗强光系列20mm光轴间距型号一览表 SELECTION TABLE 单位: mm

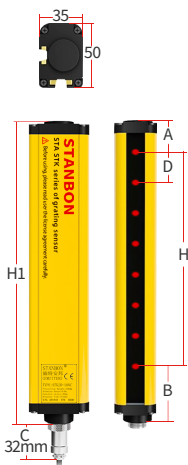
外形 Appearance	产品型号 Product model	光轴数(N) Number of optical axes (N)	光轴间距(D) Optical axis spacing (D)	保护高度(H) Protection height(H)	外形高度(H1) Contour height (H1)	感应距离(M) Sensing distance (M)	上盲区(A) Upper blind area (A)	下盲区(B) Lower blind area (B)
	STK20-P06NC-06	6	20	100	175	6m/10m	20	55
	STK20-P08NC-06	8	20	140	215	6m/10m	20	55
	STK20-P10NC-06	10	20	180	255	6m/10m	20	55
	STK20-P12NC-06	12	20	220	295	6m/10m	20	55
	STK20-P14NC-06	14	20	260	335	6m/10m	20	55
	STK20-P16NC-06	16	20	300	375	6m/10m	20	55
	STK20-P18NC-06	18	20	340	415	6m/10m	20	55
	STK20-P20NC-06	20	20	380	455	6m/10m	20	55
	STK20-P22NC-06	22	20	420	495	6m/10m	20	55
	STK20-P24NC-06	24	20	460	535	6m/12m	20	55
	STK20-P26NC-06	26	20	500	575	6m/10m	20	55
	STK20-P28NC-06	28	20	540	615	6m/10m	20	55
	STK20-P30NC-06	30	20	580	655	6m/10m	20	55
	STK20-P32NC-06	32	20	620	695	6m/10m	20	55
	STK20-P34NC-06	34	20	660	735	6m/10m	20	55
	STK20-P36NC-06	36	20	700	775	6m/10m	20	55
	STK20-P38NC-06	38	20	740	815	6m/10m	20	55
	STK20-P40NC-06	40	20	780	855	6m/10m	20	55
	STK20-P42NC-06	42	20	820	895	6m/10m	20	55
	STK20-P44NC-06	44	20	860	935	6m/10m	20	55
	STK20-P46NC-06	46	20	900	975	6m/10m	20	55
	STK20-P48NC-06	48	20	940	1015	6m/10m	20	55
	STK20-P50NC-06	50	20	980	1055	6m/10m	20	55
	STK20-P52NC-06	52	20	1020	1095	6m/10m	20	55
	STK20-P54NC-06	54	20	1060	1135	6m/10m	20	55
	STK20-P56NC-06	56	20	1100	1175	6m/10m	20	55
	STK20-P58NC-06	58	20	1140	1215	6m/10m	20	55
	STK20-P60NC-06	60	20	1180	1255	6m/10m	20	55
	STK20-P62NC-06	62	20	1220	1295	6m/10m	20	55
	STK20-P64NC-06	64	20	1260	1335	6m/10m	20	55
	STK20-P66NC-06	66	20	1300	1375	6m/10m	20	55
	STK20-P68NC-06	68	20	1340	1415	6m/10m	20	55
	STK20-P70NC-06	70	20	1380	1455	6m/10m	20	55
	STK20-P72NC-06	72	20	1420	1495	6m/10m	20	55
	STK20-P74NC-06	74	20	1460	1535	6m/10m	20	55
	STK20-P76NC-06	76	20	1500	1575	6m/10m	20	5555
	STK20-P78NC-06	78	20	1540	1615	6m/10m	20	55
	STK20-P80NC-06	80	20	1580	1655	6m/10m	20	55
	STK20-P82NC-06	82	20	1620	1695	6m/10m	20	55
	STK20-P84NC-06	84	20	1660	1735	6m/10m	20	55
	STK20-P86NC-06	86	20	1700	1775	6m/10m	20	55
	STK20-P88NC-06	88	20	1740	1815	6m/10m	20	55
	STK20-P90NC-06	90	20	1780	1855	6m/10m	20	55
	STK20-P92NC-06	92	20	1820	1895	6m/10m	20	55
	STK20-P94NC-06	94	20	1860	1935	6m/10m	20	55
	STK20-P96NC-06	96	20	1900	1975	6m/10m	20	55
	STK20-P98NC-06	98	20	1940	2015	6m/10m	20	55
	STK20-P100NC-06	100	20	1980	2055	6m/10m	20	55



STK-P表示抗阳光、STK-PJ表示抗激光抗弧光，型号表通用

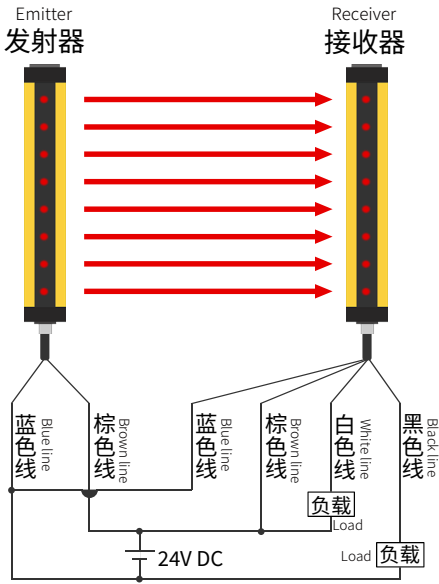
STK-P(J)抗强光系列40mm光轴间距型号一览表 SELECTION TABLE 单位: mm

外形 Appearance	产品型号 Product model	光轴数(N) Number of optical axes (N)	光轴间距(D) Optical axis spacing (D)	保护高度(H) Protection height(H)	外形高度(H1) Contour height (H1)	感应距离(M) Sensing distance (M)	上盲区(A) Upper blind area (A)	下盲区(B) Lower blind area (B)
	STK40-P06NC-06	6	40	200	285	6m/12m	30	55
	STK40-P08NC-06	8	40	280	365	6m/12m	30	55
	STK40-P10NC-06	10	40	360	445	6m/12m	30	55
	STK40-P12NC-06	12	40	440	525	6m/12m	30	55
	STK40-P14NC-06	14	40	520	605	6m/12m	30	55
	STK40-P16NC-06	16	40	600	685	6m/12m	30	55
	STK40-P18NC-06	18	40	680	765	6m/12m	30	55
	STK40-P20NC-06	20	40	760	845	6m/12m	30	55
	STK40-P22NC-06	22	40	840	925	6m/12m	30	55
	STK40-P24NC-06	24	40	920	1005	6m/12m	30	55
	STK40-P26NC-06	26	40	1000	1085	6m/12m	30	55
	STK40-P28NC-06	28	40	1080	1165	6m/12m	30	55
	STK40-P30NC-06	30	40	1160	1245	6m/12m	30	55
	STK40-P32NC-06	32	40	1240	1325	6m/12m	30	55
	STK40-P34NC-06	34	40	1320	1405	6m/12m	30	55
	STK40-P36NC-06	36	40	1400	1485	6m/12m	30	55
	STK40-P38NC-06	38	40	1480	1565	6m/12m	30	55
	STK40-P40NC-06	40	40	1560	1645	6m/12m	30	55
	STK40-P42NC-06	42	40	1640	1725	6m/12m	30	55
	STK40-P44NC-06	44	40	1720	1805	6m/12m	30	55
	STK40-P46NC-06	46	40	1800	1885	6m/12m	30	55
	STK40-P48NC-06	48	40	1880	1965	6m/12m	30	55
	STK40-P50NC-06	50	40	1960	2045	6m/12m	30	55
	STK40-P52NC-06	52	40	2040	2125	6m/12m	30	55
	STK40-P54NC-06	54	40	2120	2205	6m/12m	30	55
	STK40-P56NC-06	56	40	2200	2285	6m/12m	30	55
	STK40-P58NC-06	58	40	2280	2365	6m/12m	30	55
	STK40-P60NC-06	60	40	2360	2445	6m/12m	30	55
	STK40-P62NC-06	62	40	2440	2525	6m/12m	30	55
	STK40-P64NC-06	64	40	2520	2605	6m/12m	30	55
	STK40-P66NC-06	66	40	2600	2685	6m/12m	30	55
	STK40-P68NC-06	68	40	2680	2765	6m/12m	30	55
	STK40-P70NC-06	70	40	2760	2845	6m/12m	30	55
	STK40-P72NC-06	72	40	2840	2925	6m/12m	30	55



STK-P表示抗阳光、STK-PJ表示抗激光抗弧光，型号表通用

产品接线图 CONNECTION MODE



发射器 Emitter	棕色线 Brown line	DC24V+
	蓝色线 Blue line	0V-

接收器 Receiver	棕色线 Brown line	DC24V+
	蓝色线 Blue line	0V-
	黑色线 Black line	PNP输出 PNP output
	白色线 White line	NPN输出 NPN output

安装和使用本产品需要注意事项



警告

关于操作人员

1. 为了本装置的正常运行，操作人员要熟读本使用说明书，对内容很好地理解之后再按照顺序进行操作。
2. 当操作人员发现本装置无法正常运行时，要向负责人员报告，并立即停止机器。在确认正常运行之前，请勿运行机器。

关于使用环境

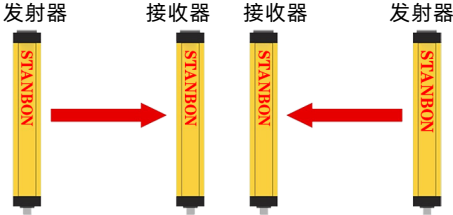
1. 请勿在本装置附近使用手机或无线机器。
2. 如果在安装本装置的地方存在光泽面，请在安装本装置时确保从光泽面反射回来的光线不会照射到接收器上，或者对光泽面进行加工(喷漆、遮蔽、粗面处理、变更材料等)处理。如果不对光泽面采取对策，本装置将会出现无法检测的状态，有可能导致重伤或死亡等事故。

请勿设置在以下场所：

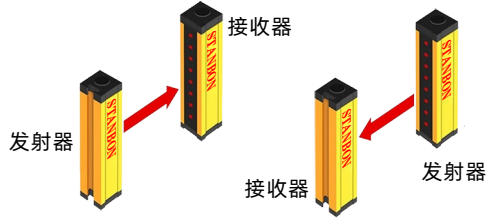
1. 高频点灯式(变频器式)或快速起动荧光灯以及闪光、太阳光等外部光线会直接照射到本装置的受光部上的地方。
2. 湿度大、易结露的地方。
3. 有腐蚀性或有爆炸性气体的地方。
4. 有激烈震动和冲击的地方。
5. 有水的地方。
6. 蒸汽或灰尘多的地方。

- 本装置的配置方法，请在充分理解的基础上进行配置。如果配置不当，有可能导致受伤等事故。
- 有配套使用多个本装置的情况下，设置时要保证不会发生相互干扰。如果发生相互干扰，有可能导致重伤或死亡等事故。

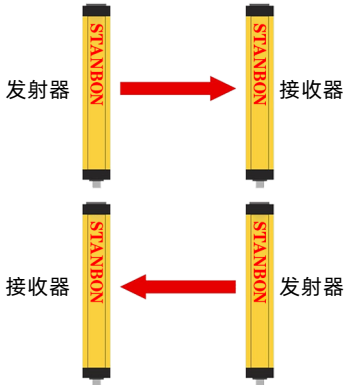
1、左右并列安装



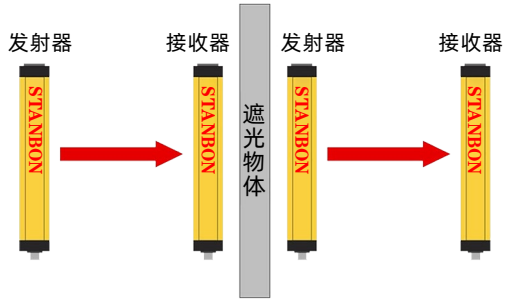
2、前后安装



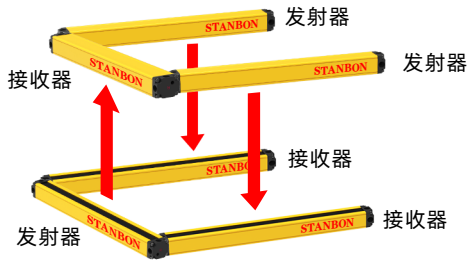
3、上下分层安装



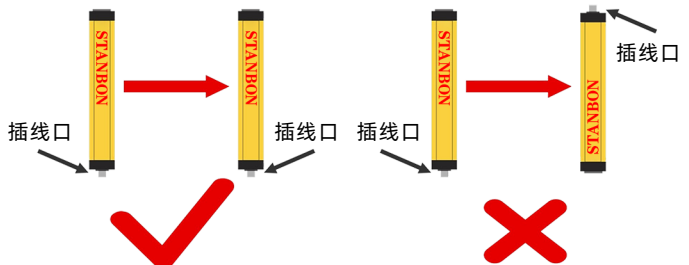
4、有遮光物体



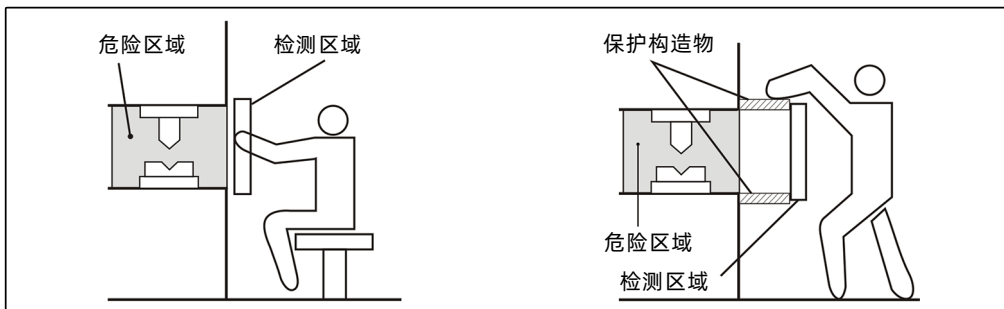
5、三面安装



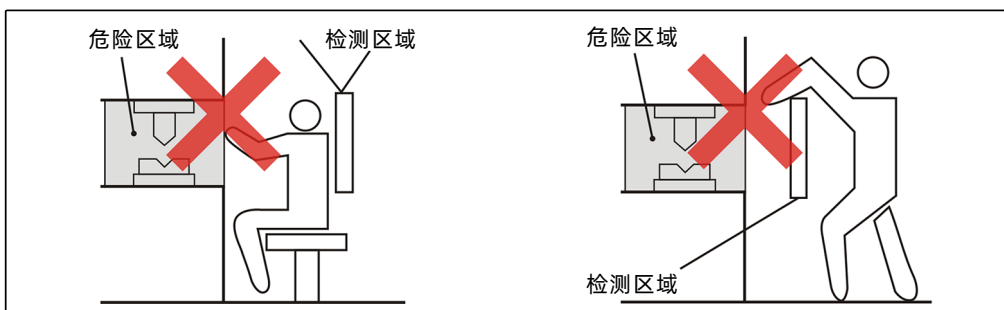
- 请将发射器、接收器的插线口位置对齐。如果插口位置未对齐，则可能导致误动作



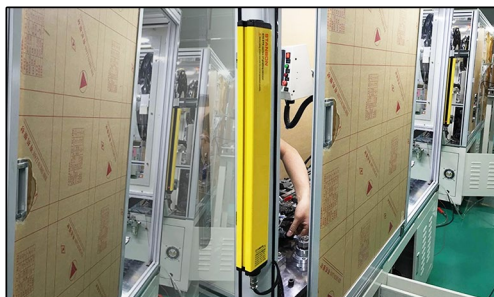
正确的安装方法 CORRECT INSTALLATION METHOD



错误的安装方法 INCORRECT INSTALLATION METHOD



整套实拍 安装方式



深圳市施特安邦科技有限公司

地址：深圳市宝安区松岗大道西侧亚洲电力工业园第一栋三楼

电话：0755-23355724

传真：0755-23355704

网址：www.szstab.com

SHENZHEN SHI TE AN BANG TECHNOLOGY CO., LTD.

Address: 3rd Floor, Building 1, Asia Electric Power Industrial Park, Songgang Road West, Baoan District, Shenzhen

Tel: 0755-23355724

Fax: 0755-23355704

Website: www.szstab.com



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