新达科技

全国服务热线

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新达 CYNDAR

专注高端品质

CE ISO9001:2015

科技，给见未来

Technology changes the future

COMPREHENSIVE
CATALOG OF SENSORS

传感器综合目录

安全光幕/安全激光雷达/安全地垫/安全触边/安全继电器

Safety light curtain/safety lidar/safety mat/safety edge/safety relay

2021版

无盲区安全光幕-COT
No blind spot safety light curtain

- 0.01秒快速响应
- 能有效屏蔽99%干扰信号
- 无盲区检测，更安全
- 极性、短路、过载保护、自检

- 0.01 second quick response
- Can effectively shield 99% of interference signals
- No blind spot detection, safer
- Polarity, short circuit, overload protection, self-check

广泛适用于压力机、液压机、油压机、剪板机、自动门等80%以上设备及其他危险场合。
It is widely used in large machinery such as presses, hydraulic presses, hydraulic presses, shears, automatic doors, or dangerous occasions that require long-distance protection.

超长感应距离：3m、6m、10m
Ultra long sensing distance

◆产品特点 Product characteristics

- ★ 自检功能完善：当安全传感器出现故障时，确保不向所控制的电器发送错误的信号；
- ★ 抗干扰能力强：系统对电磁信号，频闪灯光，焊接弧光及周围的光源具有良好的抗干扰能力；
- ★ 安装调试方便，配线简单，外形美观；
- ★ 采用表面贴装技术，防震性能优越；
- ★ 符合国际电工学会IEC61496-1/2标准安全等级，TUV的CE认证；
- ★ 响应时间短（≤15ms）,安全可靠性能高；
- ★ 尺寸设计30mm*28mm,安全传感器可以通过航空插座与电缆线(M12)链接；
- ★ 所有电子元器件均采用全球知名品牌配件;
- ★ 提供分路指示功能，直观显示光束通断状态;
- ★ 产品符合GB/T19436.1、GB/19436.2及GB4584-2007的要求。

- ★ Perfect self-check function: When the safety screen protector fails, ensure that the wrong signal is not sent to the controlled electrical appliances.
- ★ Strong anti-interference ability: The system has good anti-interference ability to electromagnetic signal, stroboscopic light, welding arc and surrounding light source;
- ★ Easy installation and debugging, simple wiring, beautiful appearance;
- ★ Surface mounting technology is adopted, which has superior seismic performance.
- ★ It conforms to IEC61496-1/2 standard safety grade and TUV CE certification.
- ★ The corresponding time is short (≤15ms), and the safety and reliability performance is high.
- ★ The dimension design is 30mm*28mm. The safety sensor can be connected to the cable (M12) through the air socket.
- ★ All electronic components adopt world-renowned brand accessories.
- ★ It provides shunt indication function to visually display the on-off state of the beam.
- ★ The product meets the requirements of GB/T19436.1, GB/19436.2 and GB4584-2007.

◆产品配置 Product configuration

控制器、发光器、受光器、传输线和电源线组成。
The controller, the light emitter, the light receiver, the transmission line and the power line are composed.

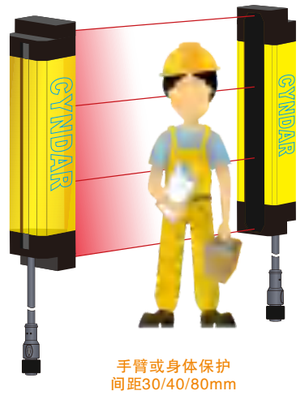
七芯数据线
7-core data cable

内置式控制器QCA
Built-in controller

◆ 分辨率 Resolving power

手指保护
间距10/14mm
Finger protective spacing

手掌保护
间距20/25mm
Palm protective spacing



手臂或身体保护
间距30/40/80mm
Arm or body protection spacing

◆ 产品技术参数 Technical parameters of products

光幕形式 Light curtain form	对射式Counter shooting		
光轴间距 Beam pitch	10mm	20mm	30mm
检测精度 Check the accuracy	18mm	28mm	48mm
光束数 Beam number	12、14、16...70	4、6、8、10...72	4、6、8、10...72
保护高度 Height of protection	光轴间距Beam pitch X (光束数Beam number−1)		
检测距离 Detection distance	30～3000mm 、30~6000mm		
响应时间 Response time	≤15ms		
抗光干扰 Anti light interference	10000Lux(入射角Incidence angle≥5°)		
外形尺寸 Outline size	30x28xLmm(L为发光器/受光器长度L is the length of light emitter/receiver)		
防护等级 Protection level	IP65		
控制器 Controller	QET 、QCA		
电源电压 Supply voltage	DC12/24V AC110−220V(继电器输出Relay output)带控制器Tape controller		
消耗电流 Consumption current	≤200mA		
输出 Output	2NPN/PNP型，灌入电流500mA，电压1.5v以下，极性、短路、过载保护 2NPN/PNP type, with current 500 mA and voltage less than 1.5 v, polarity, short circuit and overload protection		
输出状态 Output state	所有光轴受光时ON（接收指示绿灯) ON (Receiving Indicator Green Light) when all optical axes are illuminated		
指示灯 Indicator light	投光器：电源指示灯（红色）；受光器：输出指示灯 通光（绿色）遮光（红色） Projector: Power indicator (red); Receiver: Output indicator (green) shading (red)		
光源 Light source	调制红外LED Modulated Infrared LED		
连接方式 Connection mode	圆形航空插座，配专用连接电缆，投光器7芯，受光器7芯 Circular aviation socket with special connecting cable, 7cores of projector and 7cores of receiver		
壳体材料 Shell material	铝合金，端盖：ABS增强尼龙 Aluminum alloy, end cover: ABS reinforced nylon		
耐环境光 Environmental light resistance	白炽光：受光面照度3000Lx；太阳光：受光面照度10000Lx Incandescent light: illumination of the receiving surface 3000Lx; sunlight: illumination of the receiving surface 10000Lx		
环境温度 Ambient temperature	工作时：−10~+40℃(但不结冰),保存时:−25~+55℃ When working: − 10 ~ + 40 C (but not freezing), when preserved: − 25 ~ + 55 C		
环境湿度 Ambient humidity	工作时：35~85%RH,保存时:35~95%RH Work: 35−85% RH, save: 35−95% RH		

◆ COT型安全光幕规格表说明如下：
The specifications of COT type safety screen are as follows

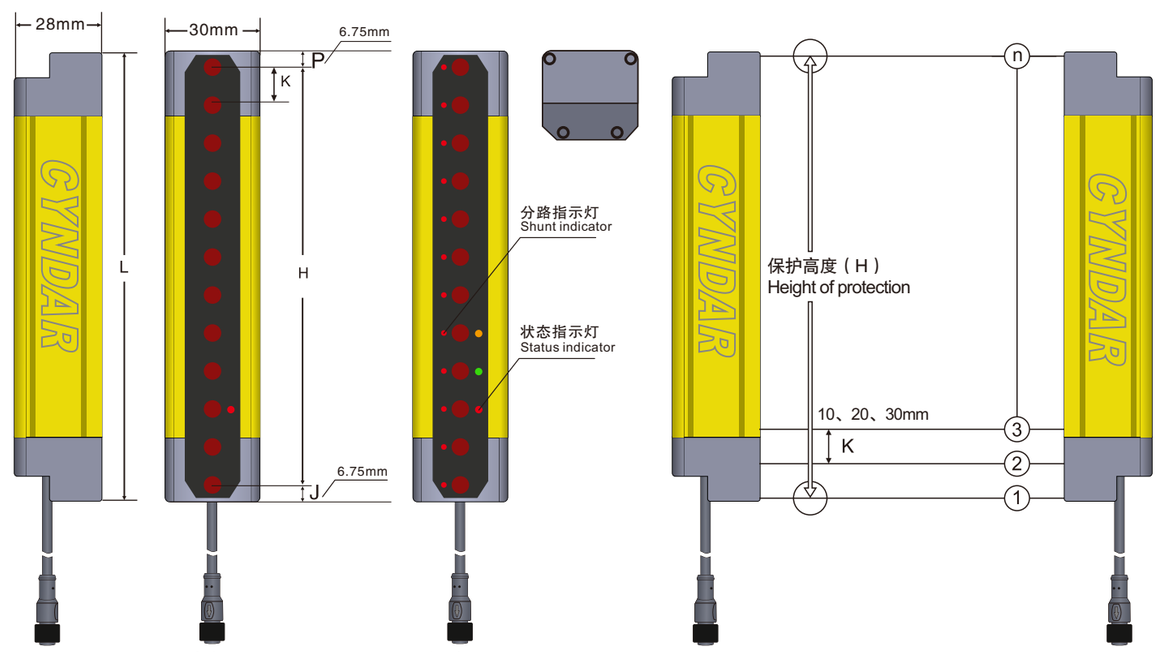
单位Unit: mm

C O T 0 8 / 4 0 — 280 1 D A □ (COT08/40-280 1DA)

- 特殊标示 Special mark
- 感应距离：A:0.3−3m C:0.3−10m E:0.3−20m
  Induction distance
- 信号输出方式：A图：NPN 常闭 A:NC B图：PNP 常闭 B:PC C图：NPN 常开 C:NO D图：PNP 常开 D:PO
  Signal Output Mode
  注：无特殊要求情况下默认为A图
  Note: The default is figure A without special requirements.
- 几组输出：1：一组输出（一般情况下不注明）1:A set of outputs (usually not specified)
  2：两组输出 2:Two sets of output
- 保护高度280 Protection height
- 光轴间距：10mm、20mm、30mm
  Beam pitch
- 光束数：04、06、08、10……72mm
  Beam number
- 型号：COT Model: COT

详细型号请见下一页规格表
Please see the specification table on the next page for detailed models.

◆ 外形尺寸 Dimensions



发射器
Emitter

接收器
Receiver

备注：
Remarks

H=（n−1）*K=保护高度
Height of detection

K:光轴间距
Optical axis spacing

L:光幕总长度
Total length of light screen

n:光轴数
Optical axis number

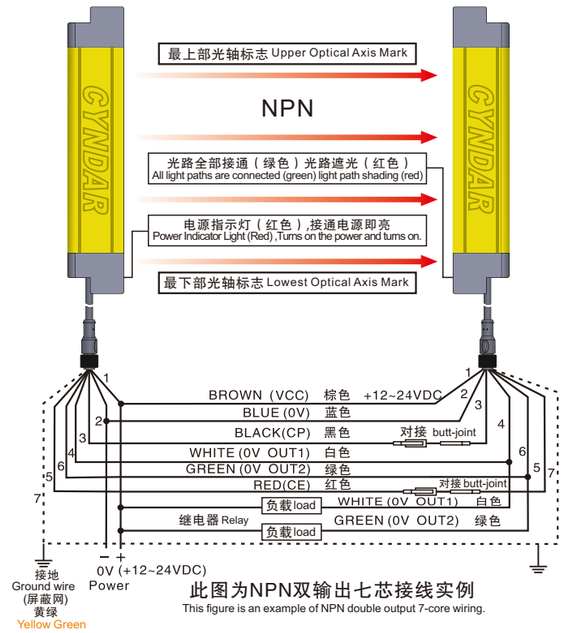
K(mm)	10	20	30
P/J(mm)	6.75	6.75	6.75

◆COT规格一览表Specification List

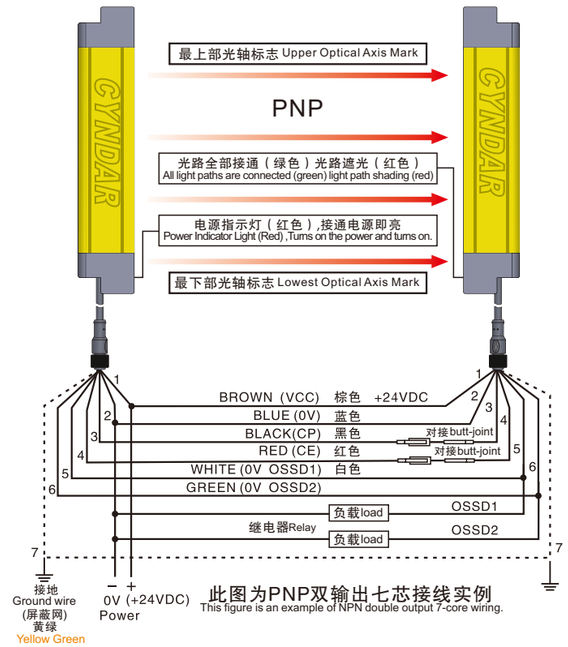
光轴间距 Beam pitch	光束数 Light beam	保护高度mm(H) Protection height	光幕高度mm(l) Screen height	产品型号 Product model	信号输出方式 Signal output mode				检测距离 Detection distance
					NPN	PNP	NPN	PNP	
10mm (K)	12	110	123.5	COT12/10-110	A	B	C	D	0.3-3m
	14	140	153.5	COT14/10-140	A	B	C	D	0.3-3m
	16	150	163.5	COT16/10-150	A	B	C	D	0.3-3m
	18	170	183.5	COT18/10-170	A	B	C	D	0.3-3m
	20	190	203.5	COT20/10-190	A	B	C	D	0.3-3m
	22	210	223.5	COT22/10-210	A	B	C	D	0.3-3m
	24	230	243.5	COT24/10-230	A	B	C	D	0.3-3m
	26	250	263.5	COT26/10-250	A	B	C	D	0.3-3m
	28	270	283.5	COT28/10-270	A	B	C	D	0.3-3m
	30	290	303.5	COT30/10-290	A	B	C	D	0.3-3m
	32	310	323.5	COT32/10-310	A	B	C	D	0.3-3m
	34	330	343.5	COT34/10-330	A	B	C	D	0.3-3m
	36	350	363.5	COT36/10-350	A	B	C	D	0.3-3m
	38	370	383.5	COT38/10-370	A	B	C	D	0.3-3m
	40	390	403.5	COT40/10-390	A	B	C	D	0.3-3m
	42	410	423.5	COT42/10-410	A	B	C	D	0.3-3m
	44	430	443.5	COT44/10-430	A	B	C	D	0.3-3m
	46	450	463.5	COT46/10-450	A	B	C	D	0.3-3m
	48	470	483.5	COT48/10-470	A	B	C	D	0.3-3m
	50	490	503.5	COT50/10-490	A	B	C	D	0.3-3m
	52	510	523.5	COT52/10-510	A	B	C	D	0.3-3m
	54	530	543.5	COT54/10-530	A	B	C	D	0.3-3m
	56	550	563.5	COT56/10-550	A	B	C	D	0.3-3m
	58	570	583.5	COT58/10-570	A	B	C	D	0.3-3m
	60	590	603.5	COT60/10-590	A	B	C	D	0.3-3m
	62	610	623.5	COT62/10-610	A	B	C	D	0.3-3m
	64	630	643.5	COT64/10-630	A	B	C	D	0.3-3m
	66	650	663.5	COT66/10-650	A	B	C	D	0.3-3m
	68	670	683.5	COT68/10-670	A	B	C	D	0.3-3m
	70	690	703.5	COT70/10-690	A	B	C	D	0.3-3m
20mm (K)	6	100	113.5	COT06/20-100	A	B	C	D	0.3-3m
	8	140	153.5	COT08/20-140	A	B	C	D	0.3-3m
	10	180	193.5	COT10/20-180	A	B	C	D	0.3-3m
	12	220	233.5	COT12/20-220	A	B	C	D	0.3-3m
	14	260	273.5	COT14/20-260	A	B	C	D	0.3-3m
	16	300	313.5	COT16/20-300	A	B	C	D	0.3-3m
	18	340	353.5	COT18/20-340	A	B	C	D	0.3-3m
	20	380	393.5	COT20/20-380	A	B	C	D	0.3-3m
	22	420	433.5	COT22/20-420	A	B	C	D	0.3-3m
	24	460	473.5	COT24/20-460	A	B	C	D	0.3-3m
	26	500	513.5	COT26/20-500	A	B	C	D	0.3-3m
	28	540	553.5	COT28/20-540	A	B	C	D	0.3-3m
	30	580	593.5	COT30/20-580	A	B	C	D	0.3-3m
	32	620	633.5	COT32/20-620	A	B	C	D	0.3-3m
	34	660	673.5	COT34/20-660	A	B	C	D	0.3-3m
	36	700	713.5	COT36/20-700	A	B	C	D	0.3-3m
	38	740	753.5	COT38/20-740	A	B	C	D	0.3-3m
	40	780	793.5	COT40/20-780	A	B	C	D	0.3-3m
	42	820	833.5	COT42/20-820	A	B	C	D	0.3-3m
	44	860	873.5	COT44/20-860	A	B	C	D	0.3-3m
	46	900	913.5	COT46/20-900	A	B	C	D	0.3-3m
	48	940	953.5	COT48/20-940	A	B	C	D	0.3-3m
	50	980	993.5	COT50/20-980	A	B	C	D	0.3-3m
	52	1020	1033.5	COT52/20-1020	A	B	C	D	0.3-3m
	54	1060	1073.5	COT54/20-1060	A	B	C	D	0.3-3m
	56	1100	1113.5	COT56/20-1100	A	B	C	D	0.3-3m
	58	1140	1153.5	COT58/20-1140	A	B	C	D	0.3-3m
	60	1180	1193.5	COT60/20-1180	A	B	C	D	0.3-3m
	62	1220	1233.5	COT62/20-1220	A	B	C	D	0.3-3m
	64	1260	1273.5	COT64/20-1260	A	B	C	D	0.3-3m
	66	1300	1313.5	COT66/20-1300	A	B	C	D	0.3-3m
	68	1340	1353.5	COT68/20-1340	A	B	C	D	0.3-3m
	70	1380	1393.5	COT70/20-1380	A	B	C	D	0.3-3m
	72	1420	1433.5	COT72/20-1420	A	B	C	D	0.3-3m
30mm (K)	4	90	103.5	COT04/30-90	A	B	C	D	0.3-3m
	6	150	163.5	COT06/30-150	A	B	C	D	0.3-3m
	8	210	223.5	COT08/30-210	A	B	C	D	0.3-3m
	10	270	283.5	COT10/30-270	A	B	C	D	0.3-3m
	12	330	343.5	COT12/30-330	A	B	C	D	0.3-3m
	14	390	403.5	COT14/30-390	A	B	C	D	0.3-3m
	16	450	463.5	COT16/30-450	A	B	C	D	0.3-3m
	18	510	523.5	COT18/30-510	A	B	C	D	0.3-3m
	20	570	583.5	COT20/30-570	A	B	C	D	0.3-3m
	22	630	643.5	COT22/30-630	A	B	C	D	0.3-3m
	24	690	703.5	COT24/30-690	A	B	C	D	0.3-3m
	26	750	763.5	COT26/30-750	A	B	C	D	0.3-3m
	28	810	823.5	COT28/30-810	A	B	C	D	0.3-3m
	30	870	883.5	COT30/30-870	A	B	C	D	0.3-3m
	32	930	943.5	COT32/30-930	A	B	C	D	0.3-3m
	34	990	1003.5	COT34/30-990	A	B	C	D	0.3-3m
	36	1050	1063.5	COT36/30-1050	A	B	C	D	0.3-3m
	38	1110	1123.5	COT38/30-1110	A	B	C	D	0.3-3m
	40	1170	1183.5	COT40/30-1170	A	B	C	D	0.3-3m
	42	1230	1243.5	COT42/30-1230	A	B	C	D	0.3-3m
	44	1290	1303.5	COT44/30-1290	A	B	C	D	0.3-3m
	46	1350	1363.5	COT46/30-1350	A	B	C	D	0.3-3m
	48	1410	1423.5	COT48/30-1410	A	B	C	D	0.3-3m
	50	1470	1483.5	COT50/30-1470	A	B	C	D	0.3-3m
	52	1530	1543.5	COT52/30-1530	A	B	C	D	0.3-3m
	54	1590	1603.5	COT54/30-1590	A	B	C	D	0.3-3m
	56	1650	1663.5	COT56/30-1650	A	B	C	D	0.3-3m
	58	1710	1723.5	COT58/30-1710	A	B	C	D	0.3-3m
	60	1770	1783.5	COT60/30-1770	A	B	C	D	0.3-3m
	62	1830	1843.5	COT62/30-1830	A	B	C	D	0.3-3m
	64	1890	1903.5	COT64/30-1890	A	B	C	D	0.3-3m
	66	1950	1963.5	COT66/30-1950	A	B	C	D	0.3-3m
	68	2010	2023.5	COT68/30-2010	A	B	C	D	0.3-3m
	70	2070	2083.5	COT70/30-2070	A	B	C	D	0.3-3m
	72	2130	2143.5	COT72/30-2130	A	B	C	D	0.3-3m

备注：输出方式详见上一页规格说明，特殊规格可另外订做，检测距离达3米–6米需提前说明。
Remarks: Please refer to the specification on the previous page for the output method. Special specifications can be customized separately.
The detection distance of 3–6 meters should be specified in advance.

◆外形尺寸 Dimensions



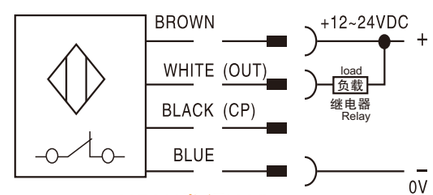
此图为NPN双输出七芯接线实例
This figure is an example of NPN double output 7-core wiring.



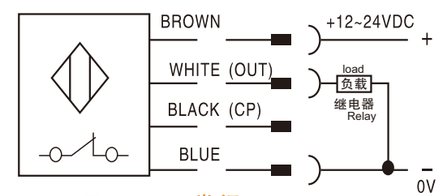
此图为PNP双输出七芯接线实例
This figure is an example of NPN double output 7-core wiring.

◆COT信号输出选择(晶体管正常工作的实际输出)

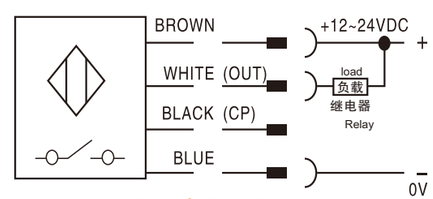
COT signal output selection (actual output of transistor working normally)



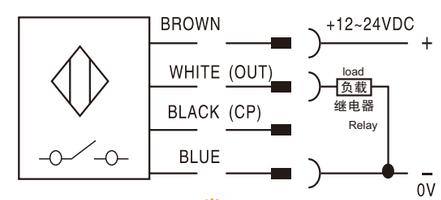
A图 NPN(常闭)NC



B图 PNP(常闭)PC

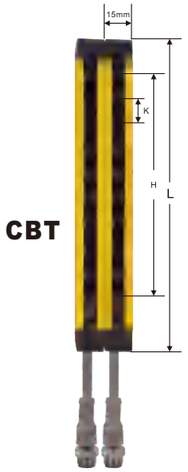


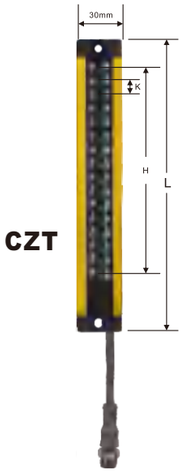
C图 NPN(常开)NO

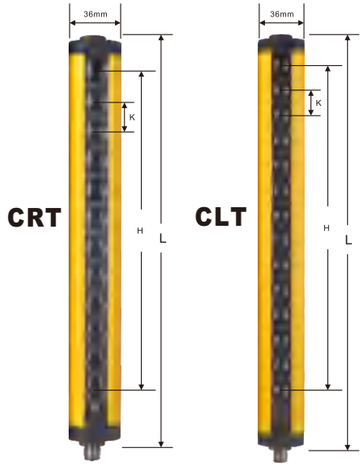


D图 PNP(常开)PO

◆外观尺寸图
Appearance size chart

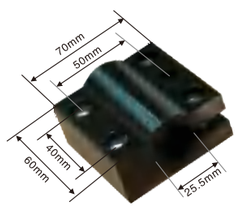


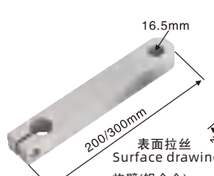




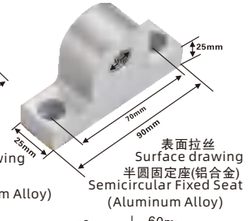
IP68Waterproof device

CAT/CST Mounting method at both ends

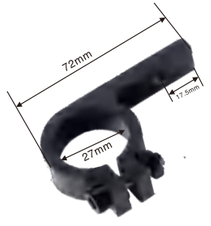




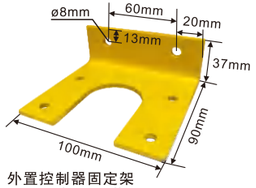
表面拉丝
Surface drawing
旋臂(铝合金)
Rotary Arm (Aluminum Alloy)



表面拉丝
Surface drawing
半圆固定座(铝合金)
Semicircular Fixed Seat
(Aluminum Alloy)

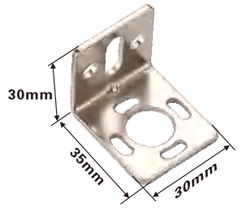


固定夹(铝合金)
Fixed Seat
(Aluminum Alloy)

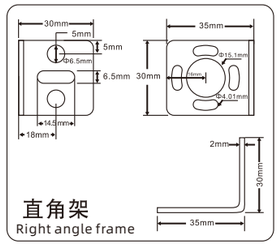


外置控制器固定架
External Controller
Fixed Clamp

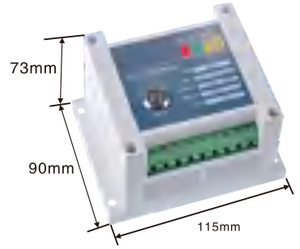
◆外观尺寸图
Appearance size chart



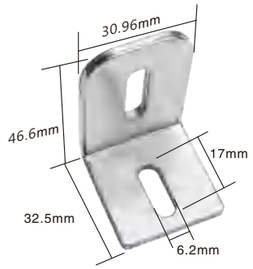
直角固定架
Right angle fixing frame



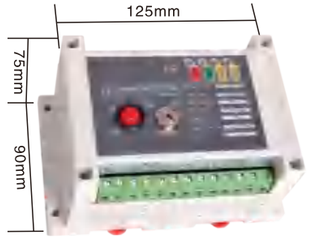
直角架
Right angle frame



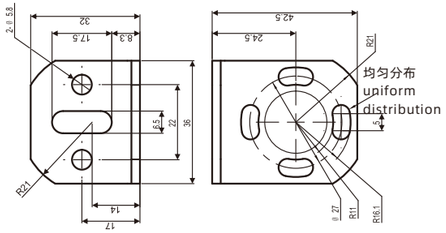
CCT\CAT内置控制器
CCT\CAT built-in controller

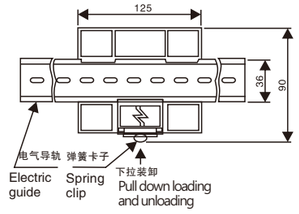


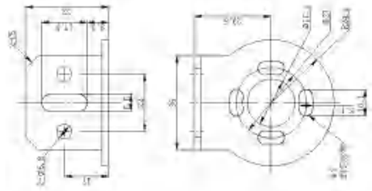
带防护套数据线
Data Line with
Protective Sheath

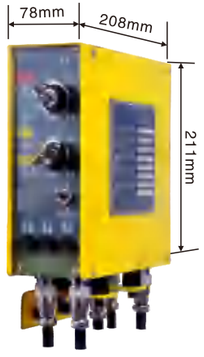


内置控制器QSN
QSN Built-in controller







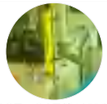


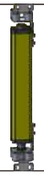
配件表 Accessory table

品名	形状 shape	型号 Model	描述 describe	备注 Remarks
内置式控制器	Built-in Controller	QCA	安装电控箱内与CCT、CAT安全光幕配套使用无源输出可直接接大功率负载 Installation of electronic control box with CCT, CAT safety light curtain and passive output can directly connect high-power load	选配件 Spare parts
内置式控制器	Built-in Controller	QET	安装电控箱内与CET、CTT安全光幕配套使用无源输出可直接接大功率负载 Installation of electronic control box with CET,CTT safety light curtain and passive output can directly connect high-power load	选配件 Spare parts
内置式控制器	Built-in Controller	QCA2	安装电控箱内与CCT、CAT安全光幕配套使用无源输出可直接接大功率负载 Installation of electronic control box with CCT,CAT safety light curtain and passive output can directly connect high-power load	选配件 Spare parts
内置式控制器	Built-in Controller	QSN	安装电控箱内与CST、CVT安全光幕配套使用无源输出可直接接大功率负载 Installation of electronic control box with CST, CVT safety light curtain and passive output can directly connect high-power load	选配件 Spare parts
内置式控制器	Built-in Controller	Tner-A31	安装电控箱内与CCT、CAT、CET、CTT双输出安全光幕配套使用无源输出可直接接大功率负载，提供4组无源开关信号 Installation of electronic control box and CCT, CAT, CET, CTT double output safety light curtain matching use of passive output can directly connect high-power load, provide four groups of passive switching signals	选配件 Spare parts
内置式控制器	Built-in Controller	LCS-SRA/B	安装电控箱内与CCT、CAT、CET、CTT双输出安全光幕配套使用无源输出可直接接大功率负载，提供4组无源开关信号 Installation of electronic control box and CCT, CAT, CET, CTT double output safety light curtain matching use of passive output can directly connect high-power load, provide four groups of passive switching signals	选配件 Spare parts
外置双面控制器	External Controller	QSWS	安装机器侧面QSW 双继电器无源输出 Install machine side QSW Dual relay passive output	选配件 Spare parts
外置单面控制器	External Controller	QSWS	安装机器侧面QSW 双继电器无源输出 Install machine side QSW Dual relay passive output	选配件 Spare parts
控制器固定架	Controller holder	QCA-06	用于CST外置控制器固定架 For CST external controller mounting bracket	标配件 Standard

五针五芯电缆	5-pin 5-core cable	QSN543 QA543	五针Φ16航空接头 带2.5x3.56m 屏蔽电缆 发射、接收单元 Five-pin Φ16 aviation joint with 2.5x3.56m shielded cable transmitting and receiving unit	标配 Standard
		QSN545 QA545	五针Φ16航空接头 带5m 屏蔽电缆 接收单元 Five-pin Φ16 aviation joint with 5m shielded cable	选配件 Spare parts
		QSN5410 QA5410	五针Φ16航空接头 带10m 屏蔽电缆 接收单元 Five-pin Φ16 aviation joint with 10m shielded cable	
五针五芯电缆	5-pin 5-core cable	QSW543	五针Φ16航空接头 带3m 屏蔽电缆 接收单元 Five-pin Φ16 aviation joint with 10m shielded cable	标配 Standard
		QSW545	五针Φ16航空接头 带5m 屏蔽电缆 接收单元 Five-pin Φ16 aviation joint with 10m shielded cable	选配件 Spare parts
		QSW5410	五针Φ16航空接头 带10m 屏蔽电缆 接收单元 Five-pin Φ16 aviation joint with 10m shielded cable	
七孔七芯数据线	7-hole 7-core data cable	QVW543	七孔Φ16航空接头 带3m 屏蔽电缆 接收单元 seven-hole Φ16 aviation joint with 3m shielded cable	标配 Standard
		QVW545	七孔Φ16航空接头 带5m 屏蔽电缆 接收单元 seven-hole Φ16 aviation joint with 3m shielded cable	选配件 Spare parts
		QVW5410	七孔Φ16航空接头 带10m 屏蔽电缆 接收单元 seven-hole Φ16 aviation joint with 3m shielded cable	
五针五芯电缆	5-pin 5-core cable	QC543	五针Φ12航空接头 带3m屏蔽电缆 接收单元 Five-pin Φ12 aviation joint with 3m shielded cable Receiver	标配 Standard
		QC545	五针Φ12航空接头 带5m屏蔽电缆 接收单元 Five-pin Φ12 aviation joint with 5m shielded cable Receiver	选配件 Spare parts
		QC5410	五针Φ12航空接头 带10m屏蔽电缆 接收单元 Five-pin Φ12 aviation joint with 10m shielded cable Receiver	
四孔四芯电缆	4-hole 4-core cable	QC433	四孔Φ12航空接头 带3m屏蔽电缆 接收单元 Four-hole Φ12 aviation joint with 3m shielded cable	标配 Standard
		QC435	四孔Φ12航空接头 带5m屏蔽电缆 接收单元 Four-hole Φ12 aviation joint with 5m shielded cable	选配件 Spare parts
		QC4310	四孔Φ12航空接头 带10m屏蔽电缆 接收单元 Four-hole Φ12 aviation joint with 10m shielded cable	
七针七芯数据线	7-pin 7-core data cable	QT702	七针Φ16航空接头 带2m 屏蔽电缆 外置控制器 seven-pin Φ16 aviation joint with 2m External controller	标配 Standard
		QT703	七针Φ16航空接头 带3m 屏蔽电缆 外置控制器 seven-pin Φ16 aviation joint with 3m External controller	选配件 Spare parts
		QT705	七针Φ16航空接头 带5m 屏蔽电缆 外置控制器 seven-pin Φ16 aviation joint with 5m External controller	
七针七芯数据线	7-pin 7-core data cable	QE702	七针Φ16航空接头 带2m 屏蔽电缆 外置控制器 seven-pin Φ16 aviation joint with 2m External controller	标配 Standard
		QE703	七针Φ16航空接头 带3m 屏蔽电缆 外置控制器 seven-pin Φ16 aviation joint with 3m External controller	选配件 Spare parts
		QE705	七针Φ16航空接头 带5m 屏蔽电缆 外置控制器 seven-pin Φ16 aviation joint with 5m External controller	

配件表 Accessory table

七孔七芯数据线	7-hole 7-core data cable	QSW702	七孔Φ16航空接头 带2m 屏蔽电缆 外置控制器 seven-hole Φ16 aviation joint with 2m data cable	标配 Standard
		QSW703	七孔Φ16航空接头 带3m 屏蔽电缆 外置控制器 seven-hole Φ16 aviation joint with 3m data cable	选配件 Spare parts
		QSW705	七孔Φ16航空接头 带5m 屏蔽电缆 外置控制器 seven-hole Φ16 aviation joint with 5m data cable	
五孔五芯数据线	7-hole 7-core data cable	QM/QR QZ/QB 503	五孔Φ12航空接头 带3m电缆数据线 five-holeΦ12 aviation joint with 3m data cable	标配 Standard
		QM/QR QZ/QB 505	五孔Φ12航空接头 带5m电缆数据线 five-hole Φ12 aviation joint with 5m data cable	选配件 Spare parts
		QM/QR QZ/QB 508	五孔Φ12航空接头 带8m电缆数据线 five-hole Φ12 aviation joint with 8m data cable	
七孔七芯数据线	7-hole 7-core data cable	QL/QM 503	七孔Φ12航空接头 带3m电缆数据线 seven-hole Φ12 aviation joint with 3m data cable	标配 Standard
		QL/QM 505	七孔Φ12航空接头 带5m电缆数据线 seven-hole Φ12 aviation joint with 5m data cable	选配件 Spare parts
		QL/QM 508	七孔Φ12航空接头 带8m电缆数据线 seven-hole Φ12 aviation joint with 8m data cable	
二孔四孔数据线	2-hole 4-hole data cable	QG2403	二孔、四孔Φ12航空接头 带3m电缆数据线 two-hole，four-hole Φ12 aviation joint with 8m data cable	标配 Standard
		QG2405	二孔、四孔Φ12航空接头 带3m电缆数据线 two-hole，four-hole Φ12 aviation joint with 8m data cable	选配件 Spare parts
		QG2408	二孔、四孔Φ12航空接头 带3m电缆数据线 two-hole，four-hole Φ12 aviation joint with 8m data cable	
不锈钢管支架	Stainless steel bracket	QCA-01	 用于CCT、CAT管状安装方式 For CCT, CAT tubular installation	
T形螺絲	T-screw	QCA-02	用于CCT、CAT侧面滑槽安装方式 For CCT, CAT side chute installation	标配件 Standard
凸形螺母	Male nut	QCA-03	用于CCT、CAT侧面滑槽安装方式 For CCT、CAT side chute installation	

直角架	Right angle frame	QCA-04	用于CCT、CAT两头安装方式 For CCT、CATside chute installation	标配件 Standard
侧面支角架	Side right angle frame	QCA-05	用于CCT/CAT/CST侧面固定 For CCT/CAT/CSTside fixing	标配件 Standard
直角架	Right angle frame	QLMR-06	用于CLT、CMT、CR两头安装方式 For CLT、CMT、CR two-head installation	标配件 Standard
直角架	Right angle frame	QRFT-07	用于CRFTwo两头安装方式 For CRFTtwo-head installation	标配件 Standard
高强度管状支架	High-strength tubular stent	QSA-07	用于CST、CAT管状安装方式 For CST、CATtubular installation	标配件 Spare parts
侧面直角架	Side right angle bracket	QSA-08	用于CST/CAT/CVT/CTT 侧面安装方式 For CST/CAT/CVT/CTT Side mounting method	标配件 Spare parts
正面直角架	 Frontal right angle bracket	QSA-09	用于CST/CAT/CVT/CTT 正面安装方式 For CST/CAT/CVT/CTT Frontal mounting method	标配件 Spare parts
反射装置	Reflector	QSA-10	用于CST/CAT/CVT/CTT 两面或三面反射器的配件 For CST/CAT/CVT/CTT Accessories for 2 or 3-sided reflectors	标配件 Spare parts

注：标配件...免费配送 选配件...需单独购买 标配件：QCA-02 QCA-03 QCA-04 任选一款，CST型：QCA-01为标配件。
Note: Standard accessories... Free distribution. Optional accessories... Need to be purchased separately. Standard accessories: QCA-02,QCA-03,QCA-04 Optional one,
QS type: QCA-01 is the standard accessory.