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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

# 超远距离对射光幕-CAT
## Ultra-long distance on the beam light curtain

- 对射距离最长达50米
- 开关量、继电器无源输出
- 能有效屏蔽99%干扰信号
- 极性、短路、过载保护、自检

- The shooting distance is up to 50 meters
- Switch quantity, relay passive output
- Can effectively shield 99% of interference signals
- Polarity, short circuit, overload protection, self-check

广泛适用于压力机、液压机、油压机、剪板机、自动门等大型机械或需要长远距离保护的危险场合。
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.





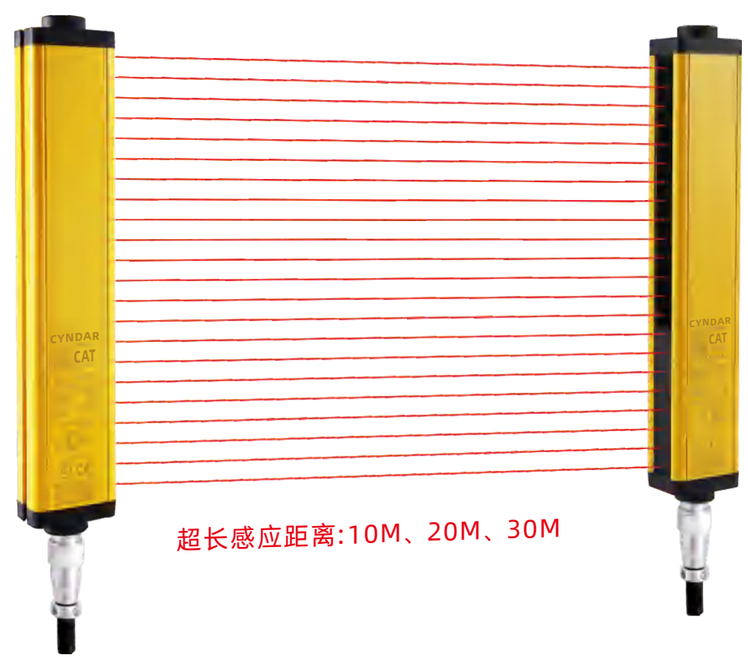
## ◆产品特点 Product characteristics

★ 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，已通过TUV的CE认证；
★ 响应时间短（≤15ms）,安全可靠性能高；
★ 尺寸设计35mm*51mm,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。

★ 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 35mm*51mm. The safety sensor can be connected to the cable (M12) through the air socket.
★ All electronic components adopt world-renowned brand accessories.

## ◆产品配置 Product configuration

发光器、受光器、数据线和安装配件组成。
Composition of Light Emitter, Light Receiver, Data Line and Installation Parts.

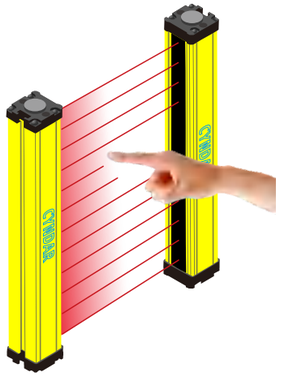


五芯(发射3m,接收3.5m)数据线(标配)
5 core(Emitter 3m, Receive 3.5m) data cable (standard)

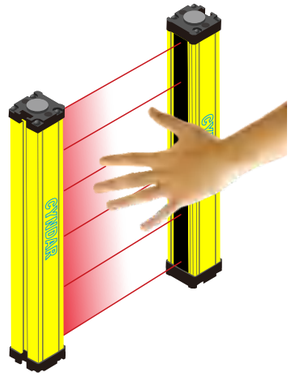
安全光幕控制器QCA(选购件)
Safety light curtain controller QCA (optional)

安全光幕双面控制器QCA2(选购件)
Safety light curtain double-sided controller QCA2 (optional)

## ◆ 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 | 14mm | 20mm | 25mm | 30mm | 40mm | 80mm |
| 检测精度 Check the accuracy | 18mm | 22mm | 28mm | 33mm | 38mm | 48mm | 88mm |
| 光束数 Beam number | 6、8···32 | 6、8···32 | 4、6···32 | 6、8···32 | 4、6···32 | 4、6···32 | 4、6···32 |
| 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ncidence angle≥5° ) | | | | | | |
| 外形尺寸 Outline size | 35x51xLmm(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 | QCA QCA2 | | | | | | |
| 电源电压 Supply voltage | DC12/24V AC110~220V(继电器输出Relay output) | | | | | | |
| 消耗电流 Consumption current | ≤200mA | | | | | | |
| 输出 Output | NPN/PNP型，灌入电流500mA，电压1.5v以下，极性、短路、过载保护<br>NPN/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 | ON（接收指示绿灯Receiving Indicator Green Light) | | | | | | |
| 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）<br>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5芯，受光器5芯<br>Circular aviation socket with special connecting cable, 5 cores of projector and 5 cores 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<br>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℃<br>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 | | | | | | |





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

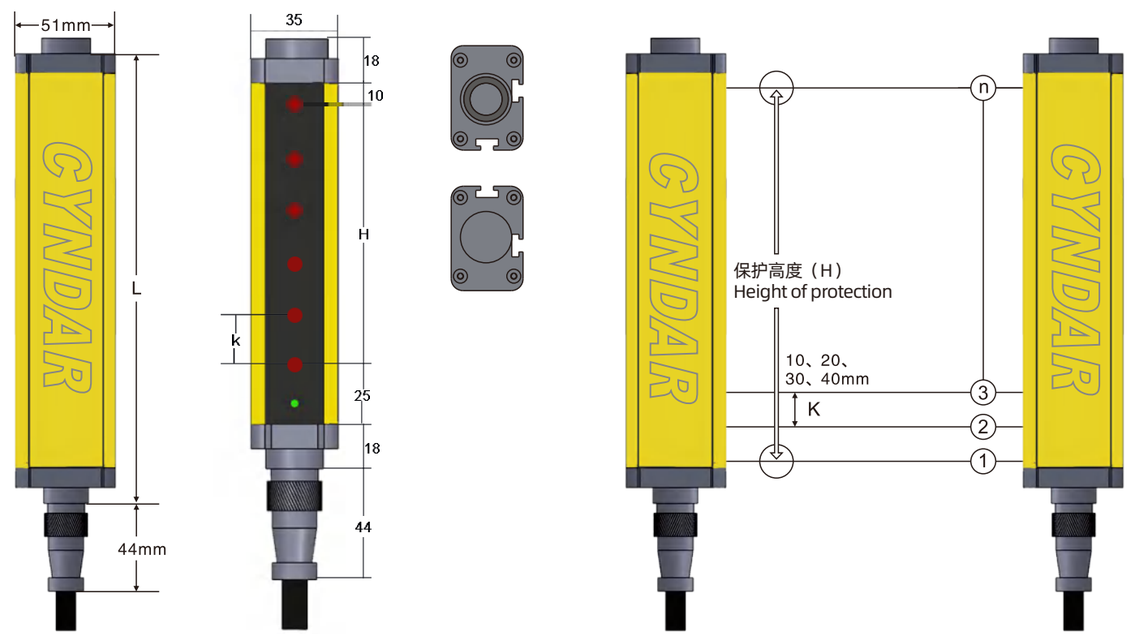
单位Unit: mm

C A T 0 8 / 4 0 — 280 1 D A □ (CAT08/40-280 1DA)

- 特殊标示Special mark
- 感应距离：A:0.3–3m B:0.3–6m C:0.3–10m D:0.3–15m E:0.3–20m F:0.3-25m G:0.3-30m H:0.3-40m
- 信号输出方式：Signal Output Mode
  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
  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：Several sets of output 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：Beam pitch 10–10mm、14–14mm、20–20mm、25–25mm、30–30mm、40–40mm、80–80mm
- 光束数：Beam number 04、06、08、10 …… 32
- 型号:CAT系列安全光幕 Model: CAT Safety Screen

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

## 外形尺寸Dimensions




备注：
Remarks

H=（n-1）*K=保护高度 Height of detection　L:光幕总长度 Total length of light screen　n:光轴数 Optical axis number　K:光轴间距 Optical axis spacing　L=P+H+J+18mm+18mm

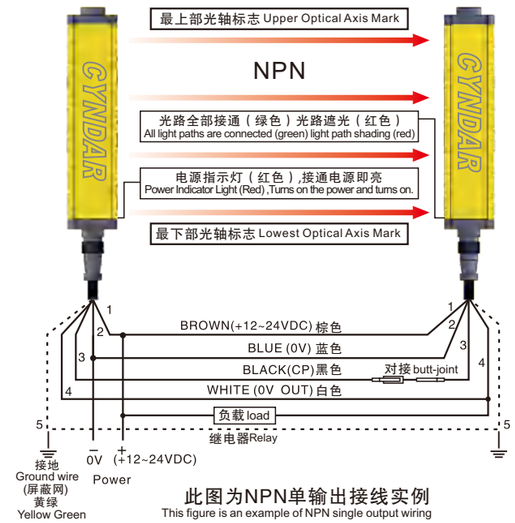
| K（mm） | 10 | 14 | 20 | 25 | 30 | 40 | 80 |
|---|---|---|---|---|---|---|---|
| P（mm） | 5 | 7 | 10 | 12. 5 | 15 | 20 | 40 |
| J（mm） | 32 | 32 | 25 | 25 | 25 | 25 | 25 |

# CAT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) | 6 | 50 | 123 | CAT06/10-50 | A | B | C | D | 0.3-3m |
| | 8 | 70 | 143 | CAT08/10-70 | A | B | C | D | 0.3-3m |
| | 10 | 90 | 163 | CAT10/10-90 | A | B | C | D | 0.3-3m |
| | 12 | 110 | 183 | CAT12/10-110 | A | B | C | D | 0.3-3m |
| | 14 | 130 | 203 | CAT14/10-130 | A | B | C | D | 0.3-3m |
| | 16 | 150 | 223 | CAT16/10-150 | A | B | C | D | 0.3-3m |
| | 18 | 170 | 243 | CAT18/10-170 | A | B | C | D | 0.3-3m |
| | 20 | 190 | 263 | CAT20/10-190 | A | B | C | D | 0.3-3m |
| | 22 | 210 | 283 | CAT22/10-210 | A | B | C | D | 0.3-3m |
| | 24 | 230 | 303 | CAT24/10-230 | A | B | C | D | 0.3-3m |
| | 26 | 250 | 323 | CAT26/10-250 | A | B | C | D | 0.3-3m |
| | 28 | 270 | 343 | CAT28/10-270 | A | B | C | D | 0.3-3m |
| | 30 | 290 | 363 | CAT30/10-290 | A | B | C | D | 0.3-3m |
| | 32 | 310 | 383 | CAT32/10-310 | A | B | C | D | 0.3-3m |
| 14mm (K) | 6 | 70 | 145 | CAT06/14-70 | A | B | C | D | 0.3-3m |
| | 8 | 98 | 173 | CAT08/14-98 | A | B | C | D | 0.3-3m |
| | 10 | 126 | 201 | CAT10/14-126 | A | B | C | D | 0.3-3m |
| | 12 | 154 | 229 | CAT12/14-154 | A | B | C | D | 0.3-3m |
| | 14 | 182 | 257 | CAT14/14-182 | A | B | C | D | 0.3-3m |
| | 16 | 210 | 285 | CAT16/14-210 | A | B | C | D | 0.3-3m |
| | 18 | 238 | 313 | CAT18/14-238 | A | B | C | D | 0.3-3m |
| | 20 | 266 | 341 | CAT20/14-266 | A | B | C | D | 0.3-3m |
| | 22 | 294 | 369 | CAT22/14-294 | A | B | C | D | 0.3-3m |
| | 24 | 322 | 397 | CAT24/14-322 | A | B | C | D | 0.3-3m |
| | 26 | 350 | 425 | CAT26/14-350 | A | B | C | D | 0.3-3m |
| | 28 | 378 | 453 | CAT28/14-378 | A | B | C | D | 0.3-3m |
| | 30 | 406 | 481 | CAT30/14-406 | A | B | C | D | 0.3-3m |
| | 32 | 434 | 509 | CAT32/14-434 | A | B | C | D | 0.3-3m |
| 20mm (K) | 4 | 60 | 131 | CAT04/20-60 | A | B | C | D | 0.3-3m |
| | 6 | 100 | 171 | CAT06/20-100 | A | B | C | D | 0.3-3m |
| | 8 | 140 | 211 | CAT08/20-140 | A | B | C | D | 0.3-3m |
| | 10 | 180 | 251 | CAT10/20-180 | A | B | C | D | 0.3-3m |
| | 12 | 220 | 291 | CAT12/20-220 | A | B | C | D | 0.3-3m |
| | 14 | 260 | 331 | CAT14/20-260 | A | B | C | D | 0.3-3m |
| | 16 | 300 | 371 | CAT16/20-300 | A | B | C | D | 0.3-3m |
| | 18 | 340 | 411 | CAT18/20-340 | A | B | C | D | 0.3-3m |
| | 20 | 380 | 451 | CAT20/20-380 | A | B | C | D | 0.3-3m |
| | 22 | 420 | 491 | CAT22/20-420 | A | B | C | D | 0.3-3m |
| | 24 | 460 | 531 | CAT24/20-460 | A | B | C | D | 0.3-3m |
| | 26 | 500 | 571 | CAT26/20-500 | A | B | C | D | 0.3-3m |
| | 28 | 540 | 611 | CAT28/20-540 | A | B | C | D | 0.3-3m |
| | 30 | 580 | 651 | CAT30/20-580 | A | B | C | D | 0.3-3m |
| | 32 | 620 | 691 | CAT32/20-620 | A | B | C | D | 0.3-3m |
| 25mm (K) | 6 | 125 | 198.5 | CAT06/25-125 | A | B | C | D | 0.3-3m |
| | 8 | 175 | 248.5 | CAT08/25-175 | A | B | C | D | 0.3-3m |
| | 10 | 225 | 298.5 | CAT10/25-225 | A | B | C | D | 0.3-3m |
| | 12 | 275 | 348.5 | CAT12/25-275 | A | B | C | D | 0.3-3m |
| | 14 | 325 | 398.5 | CAT14/25-325 | A | B | C | D | 0.3-3m |
| | 16 | 375 | 448.5 | CAT16/25-375 | A | B | C | D | 0.3-3m |
| | 18 | 425 | 498.5 | CAT18/25-425 | A | B | C | D | 0.3-3m |
| | 20 | 475 | 548.5 | CAT20/25-475 | A | B | C | D | 0.3-3m |
| | 22 | 525 | 598.5 | CAT22/25-525 | A | B | C | D | 0.3-3m |
| | 24 | 575 | 648.5 | CAT24/25-575 | A | B | C | D | 0.3-3m |
| | 26 | 625 | 698.5 | CAT26/25-625 | A | B | C | D | 0.3-3m |
| | 28 | 675 | 748.5 | CAT28/25-675 | A | B | C | D | 0.3-3m |
| | 30 | 725 | 798.5 | CAT30/25-725 | A | B | C | D | 0.3-3m |
| | 32 | 775 | 848.5 | CAT32/25-775 | A | B | C | D | 0.3-3m |
| 30mm (K) | 4 | 90 | 166 | CAT04/30-90 | A | B | C | D | 0.3-3m |
| | 6 | 150 | 226 | CAT06/30-150 | A | B | C | D | 0.3-3m |
| | 8 | 210 | 286 | CAT08/30-210 | A | B | C | D | 0.3-3m |
| | 10 | 270 | 346 | CAT10/30-270 | A | B | C | D | 0.3-3m |
| | 12 | 330 | 406 | CAT12/30-330 | A | B | C | D | 0.3-3m |
| | 14 | 390 | 466 | CAT14/30-390 | A | B | C | D | 0.3-3m |
| | 16 | 450 | 526 | CAT16/30-450 | A | B | C | D | 0.3-3m |
| | 18 | 510 | 586 | CAT18/30-510 | A | B | C | D | 0.3-3m |
| | 20 | 570 | 646 | CAT20/30-570 | A | B | C | D | 0.3-3m |
| | 22 | 630 | 706 | CAT22/30-630 | A | B | C | D | 0.3-3m |
| | 24 | 690 | 766 | CAT24/30-690 | A | B | C | D | 0.3-3m |
| | 26 | 750 | 826 | CAT26/30-750 | A | B | C | D | 0.3-3m |
| | 28 | 810 | 886 | CAT28/30-810 | A | B | C | D | 0.3-3m |
| | 30 | 870 | 946 | CAT30/30-870 | A | B | C | D | 0.3-3m |
| | 32 | 930 | 1006 | CAT32/30-930 | A | B | C | D | 0.3-3m |
| 40mm (K) | 4 | 120 | 201 | CAT04/40-120 | A | B | C | D | 0.3-3m |
| | 6 | 200 | 281 | CAT06/40-200 | A | B | C | D | 0.3-3m |
| | 8 | 280 | 361 | CAT08/40-280 | A | B | C | D | 0.3-3m |
| | 10 | 360 | 441 | CAT10/40-360 | A | B | C | D | 0.3-3m |
| | 12 | 440 | 521 | CAT12/40-440 | A | B | C | D | 0.3-3m |
| | 14 | 520 | 601 | CAT14/40-520 | A | B | C | D | 0.3-3m |
| | 16 | 600 | 681 | CAT16/40-600 | A | B | C | D | 0.3-3m |
| | 18 | 680 | 761 | CAT18/40-680 | A | B | C | D | 0.3-3m |
| | 20 | 760 | 841 | CAT20/40-760 | A | B | C | D | 0.3-3m |
| | 22 | 840 | 921 | CAT22/40-840 | A | B | C | D | 0.3-3m |
| | 24 | 920 | 1001 | CAT24/40-920 | A | B | C | D | 0.3-3m |
| | 26 | 1000 | 1081 | CAT26/40-1000 | A | B | C | D | 0.3-3m |
| | 28 | 1080 | 1161 | CAT28/40-1080 | A | B | C | D | 0.3-3m |
| | 30 | 1160 | 1241 | CAT30/40-1160 | A | B | C | D | 0.3-3m |
| | 32 | 1240 | 1321 | CAT32/40-1240 | A | B | C | D | 0.3-3m |
| 80mm (K) | 4 | 240 | 341 | CAT04/80-240 | A | B | C | D | 0.3-3m |
| | 6 | 400 | 501 | CAT06/80-400 | A | B | C | D | 0.3-3m |
| | 8 | 560 | 661 | CAT08/80-560 | A | B | C | D | 0.3-3m |
| | 10 | 720 | 821 | CAT10/80-720 | A | B | C | D | 0.3-3m |
| | 12 | 880 | 981 | CAT12/80-880 | A | B | C | D | 0.3-3m |
| | 14 | 1040 | 1141 | CAT14/80-1040 | A | B | C | D | 0.3-3m |
| | 16 | 1200 | 1301 | CAT16/80-1200 | A | B | C | D | 0.3-3m |
| | 18 | 1360 | 1461 | CAT18/80-1360 | A | B | C | D | 0.3-3m |
| | 20 | 1520 | 1621 | CAT20/80-1520 | A | B | C | D | 0.3-3m |
| | 22 | 1680 | 1781 | CAT22/80-1680 | A | B | C | D | 0.3-3m |
| | 24 | 1840 | 1941 | CAT24/80-1840 | A | B | C | D | 0.3-3m |
| | 26 | 2000 | 2101 | CAT26/80-2000 | A | B | C | D | 0.3-3m |
| | 28 | 2160 | 2261 | CAT28/80-2160 | A | B | C | D | 0.3-3m |
| | 30 | 2320 | 2421 | CAT30/80-2320 | A | B | C | D | 0.3-3m |
| | 32 | 2480 | 2581 | CAT32/80-2480 | A | B | C | D | 0.3-3m |

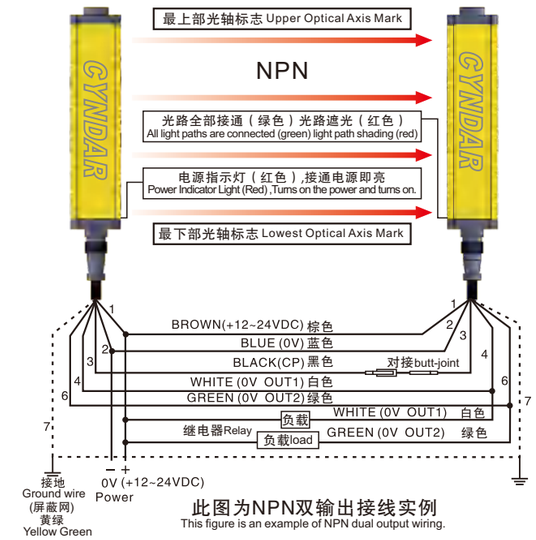
备注：输出方式详见上一页规格说明，如无要求默认为A图。特殊规格可另外订做，检测距离A：0.3–3M、B：0.3–6M、C：0.3–10M、D：0.3–15M、E：0.3–20M、F：0.3–25M、G：0.3–30M、H：0.3–40M。
Note: The mode of output is detailed in the specification on the next page. If there is no requirement, the default is figure A. Special specifications can be customized, detection distance A:0.3–3M, B:0.3–6M, C:0.3–10M, etc.D: 0.3–15M, E: 0.3–20M, F: 0.3–25M, G: 0.3–30M, H: 0.3–40M.

## ◆ CAT五芯系列接线图
CAT five-core series wiring diagram



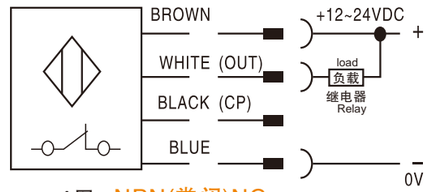

此图为NPN单输出接线实例
This figure is an example of NPN single output wiring

## ◆ CAT发射器、接收器为7针6芯接线图
CAT transmitter and receiver are all seven-pin six-core wiring diagram

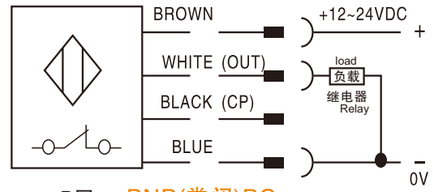



此图为NPN双输出接线实例
This figure is an example of NPN dual output wiring.

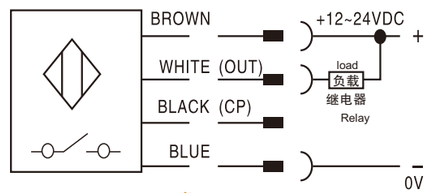
## ◆ CAT信号输出选择（晶体管正常工作的实际输出）
CAT signal output selection (actual output of transistor working normally)



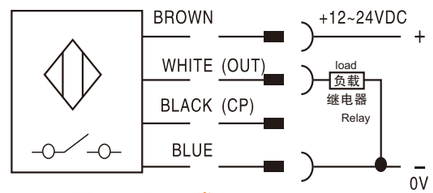

A图 NPN(常闭)NC



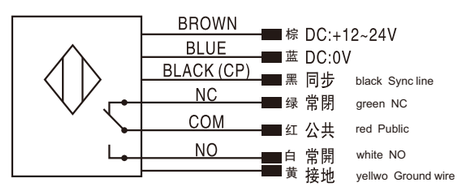

B图 PNP(常闭)PC




C图 NPN(常开)NO




D图 PNP(常开)PO




J图

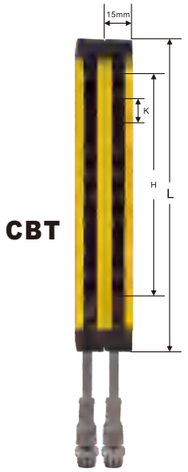
## CAT内部继电器无源输出

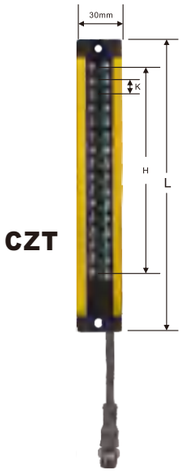
注：同步线CP：发射、接收短接
Note: Synchronization line CP: Short connection between transmitter and receiver

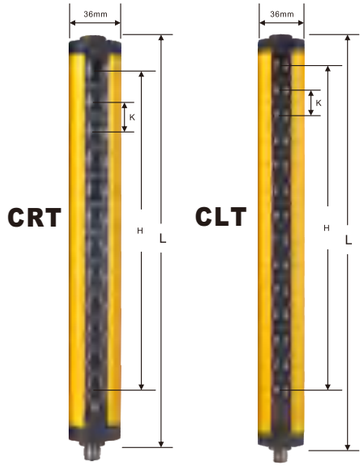
触点容量：AC：250V 10A
contact rating DC：30V 16A

注：光幕通光时：红、绿接通（常闭），红、白断开（常开）
光幕遮光时：红、绿断开，红、白接通（常开）
Note: When the light curtain is illuminated, the connection between red and green (NC) and the disconnection between red and white (NO)
When the light screen is shaded, the red and green are disconnected and the red and white are connected.

## ◆外观尺寸图
## Appearance size chart

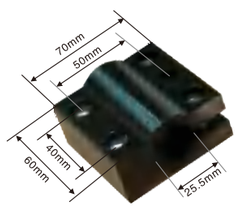


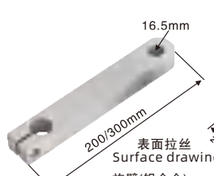



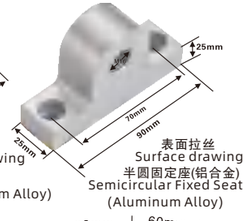
IP68Waterproof device

CAT/CST Mounting method at both ends

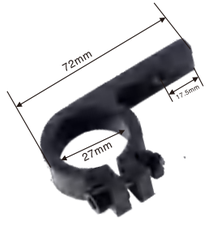


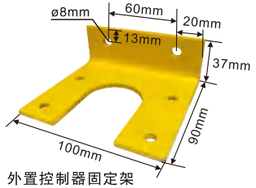

表面拉丝
Surface drawing
旋臂(铝合金)
Rotary Arm (Aluminum Alloy)




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)

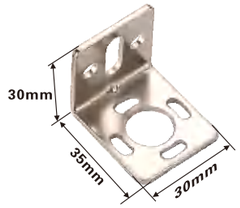



外置控制器固定架
External Controller
Fixed Clamp

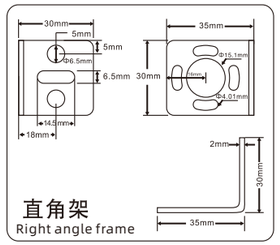




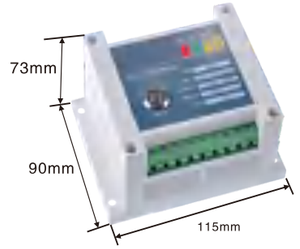
## ◆外观尺寸图
## Appearance size chart



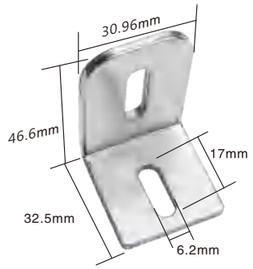

直角固定架
Right angle fixing frame



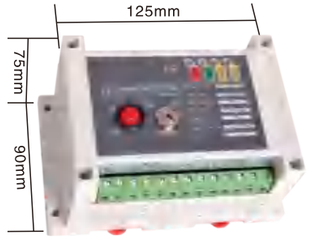

直角架
Right angle frame



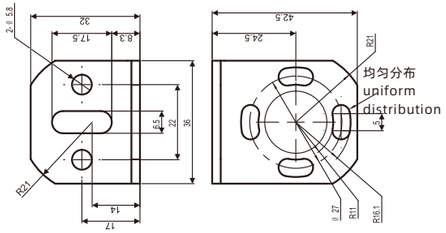

CCT\CAT内置控制器
CCT\CAT built-in controller

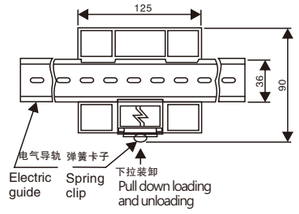


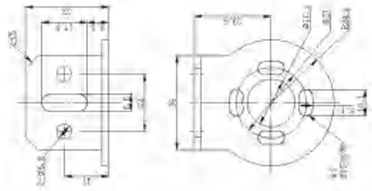
带防护套数据线
Data Line with
Protective Sheath

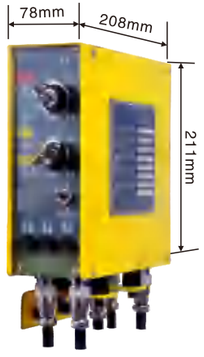



内置控制器QSN
QSN Built-in controller







## 配件表 Accessory table

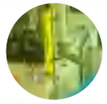
| 品名 | 形状 shape | 型号 Model | 描述 describe | 备注 Remarks |
|---|---|---|---|---|
| 内置式控制器 | Built-in Controller | QCA | 安装电控箱内与CCT、CAT安全光幕配套使用无源输出可直接接大功率负载<br>Installation of electronic control box with CCT, CAT safety light curtain and passive output can directly connect high-power load | 选配件 Spare parts |
| 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<br>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<br>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<br>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<br>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<br>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<br>双继电器无源输出<br>Install machine side QSW<br>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<br>双继电器无源输出<br>Install machine side QSW<br>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<br>For CST external controller mounting bracket | 标配件 Standard |

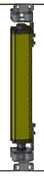
| | | | | |
|---|---|---|---|---|
| 五针五芯电缆 | 5-pin 5-core cable | QSN543 QA543 | 五针Φ16航空接头 带2.5x3.56m 屏蔽电缆 发射、接收单元<br>Five-pin Φ16 aviation joint with 2.5x3.56m shielded cable transmitting and receiving unit | 标配 Standard |
| | | QSN545 QA545 | 五针Φ16航空接头 带5m 屏蔽电缆 接收单元<br>Five-pin Φ16 aviation joint with 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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>For CCT、CAT side chute installation | |

| | | | | |
|---|---|---|---|---|
| 直角架 | Right angle frame | QCA-04 | 用于CCT、CAT两头安装方式<br>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<br>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<br>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<br>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<br>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<br>侧面安装方式<br>For CST/CAT/CVT/CTT<br>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<br>正面安装方式<br>For CST/CAT/CVT/CTT<br>Frontal mounting method | 标配件 Spare parts |
| 反射装置 | Reflector | QSA-10 | 用于CST/CAT/CVT/CTT<br>两面或三面反射器的配件<br>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.