

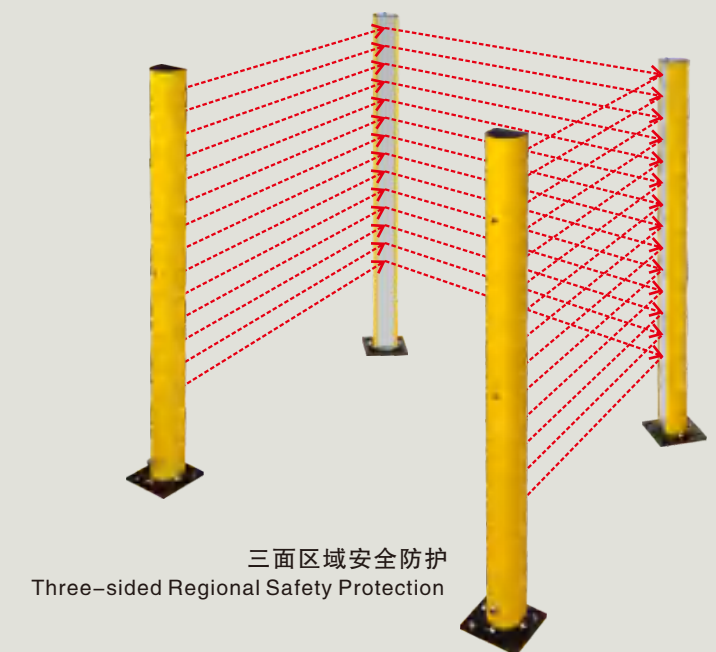
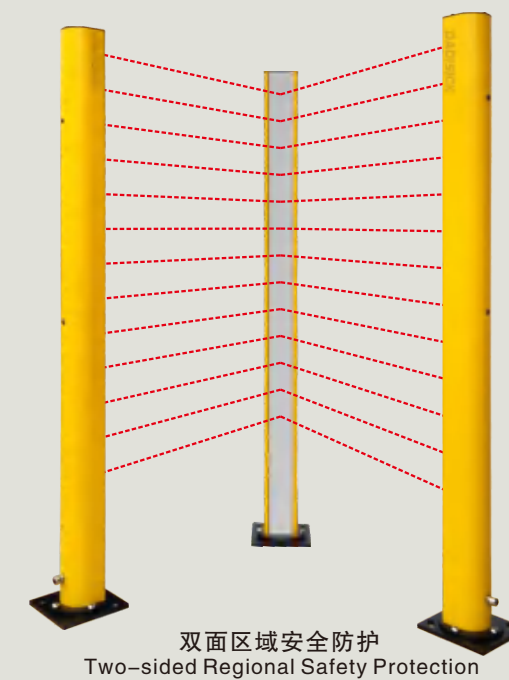
CN:www.gzcyndar.cn EN:www.gzcyndar.com

区域防护光栅-CSAT Area protection safety grating

- 保护区域最大可达30米
- 超快响应速度（小于15ms）
- 能有效屏蔽99%干扰信号
- 极性、短路、过载保护、自检
- Protected area up to 30 meters
- Ultra-fast response speed (less than 15ms)
- Can effectively shield 99% of interference signals
- Polarity, short circuit, overload protection, self-check

广泛适用于转塔冲床、装配站、包装设备、码堆机、机器人工作区域等其他区域性包围防护危险场合。

It is widely used in turret punch presses, assembly stations, packaging equipment, stackers, robot working areas and other regional surrounding and protection dangerous occasions.



CSAT系列区域安全防护光幕
CSAT Series Area Safety Protection Light Curtain

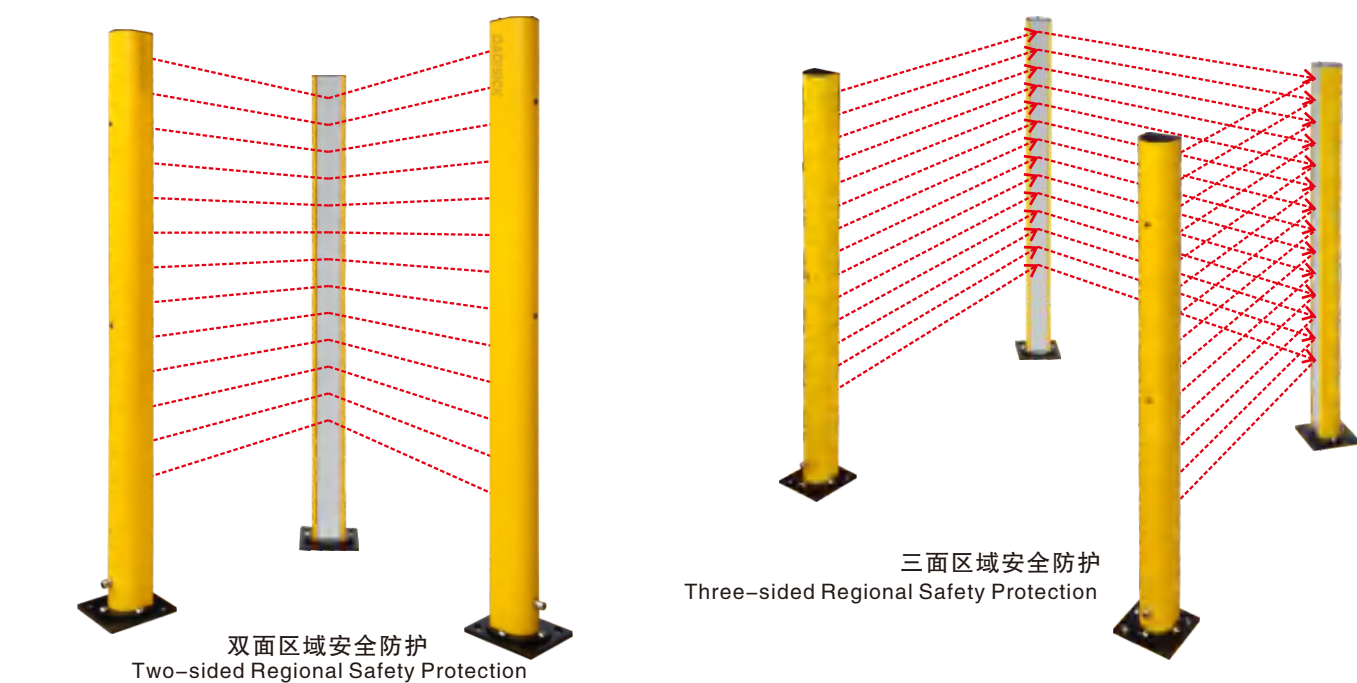
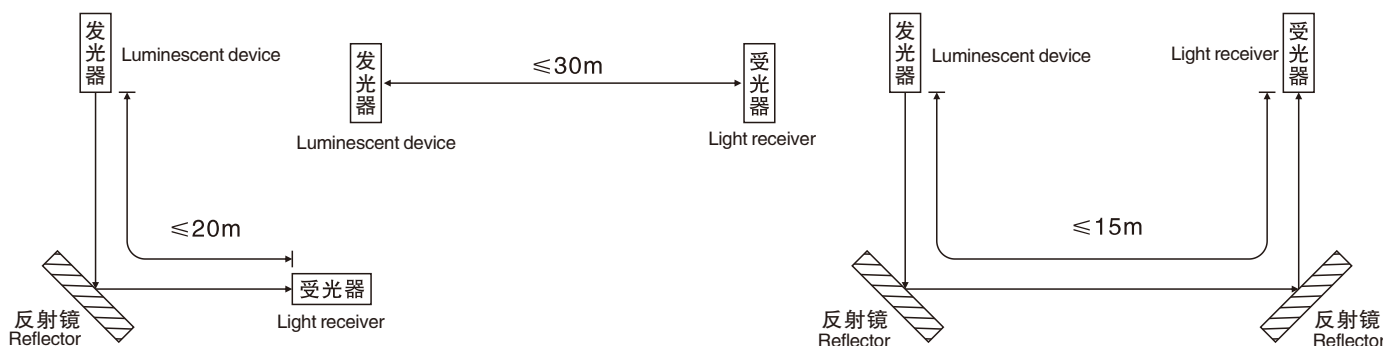


CSAT系列光电保护装置是利用反射镜，改变光线的传输方向，形成2面或3面的保护区域
光幕形式：区域防护
光轴间距：40mm、80mm
保护距离：2面 $\leq 20000\text{mm}$ ，3面 $\leq 15000\text{mm}$
保护高度：120~1240mm为常规产品

CSAT series optoelectronic protective devices use mirrors to change the direction of light transmission and form two or three-sided protected areas.
Light curtain form: regional protection
Optical Axis Spacing: 40mm, 80mm
Protective distance: 2 planes $\leq 20000\text{mm}$, 3 planes $\leq 15000\text{mm}$
Protective Height: 120-1240mm for Conventional Products

产品组成：
2面保护：发光器1支，反射镜1支，受光器1支，控制器1只，信号电缆2根，安装附件1套。
3面保护：发光器1支，反射镜2支，受光器1支，控制器1只，信号电缆2根，安装附件1套。

Product composition:
2-side protection: 1 light-emitting device, 1 reflector, 1 light-receiving device, 1 controller, 2 signal cables and 1 set of accessories.
3-sided protection: 1 light-emitting device, 2 mirrors, 1 light-receiving device, 1 controller, 2 signal cables and 1 set of accessories.



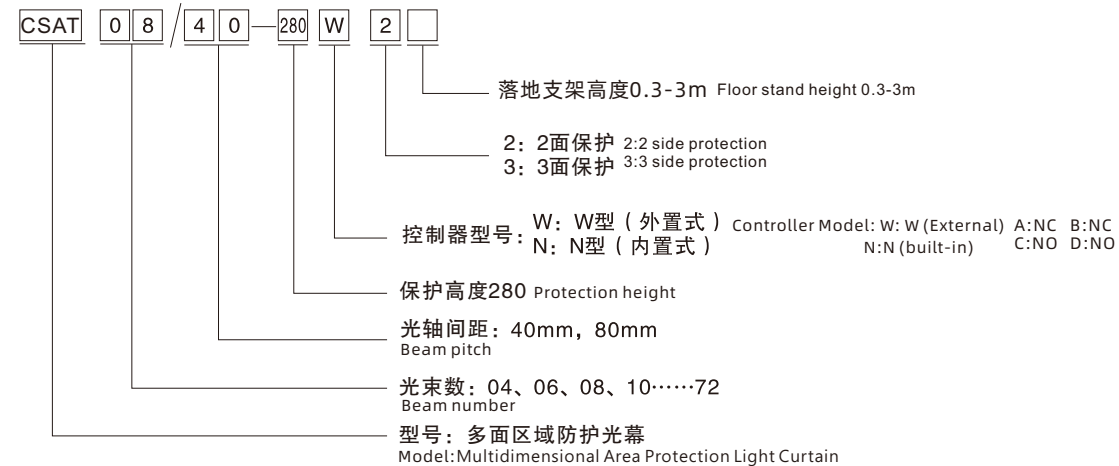
◆ 应用领域 Application area

- | | | | |
|---|---|--|---|
| ● 转塔冲床
Turret punch press
Code stacking machine | ● 装配站
● 自动生产设备
Assembly station
Automatic production equipment | ● 物流处理区域
● 机器人工作区域
Logistics processing area
Robot working area | ● 包装设备
● 其他危险区域周边防护
Packaging equipment
Peripheral protection of other dangerous areas |
|---|---|--|---|

◆ 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（ $\leq 15\text{ms}$ ），安全可靠性能高；
- ★ 结构简单，接线方便，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。
- ★ 可提供双路NPN或PNP输出，此时用户应保证机械设备的后续控制电路安全可靠。
- ★ 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 ($\leq 15\text{ms}$), and the safety and reliability performance is high.
- ★ The safety sensor can be connected to the cable line (M12) through an aviation socket, because of its simple structure and convenient wiring.
- ★ All electronic components adopt world-renowned brand accessories.
- ★ Double NPN or PNP output can be provided. At this time, users should ensure that the follow-up control circuit of mechanical equipment is safe and reliable.

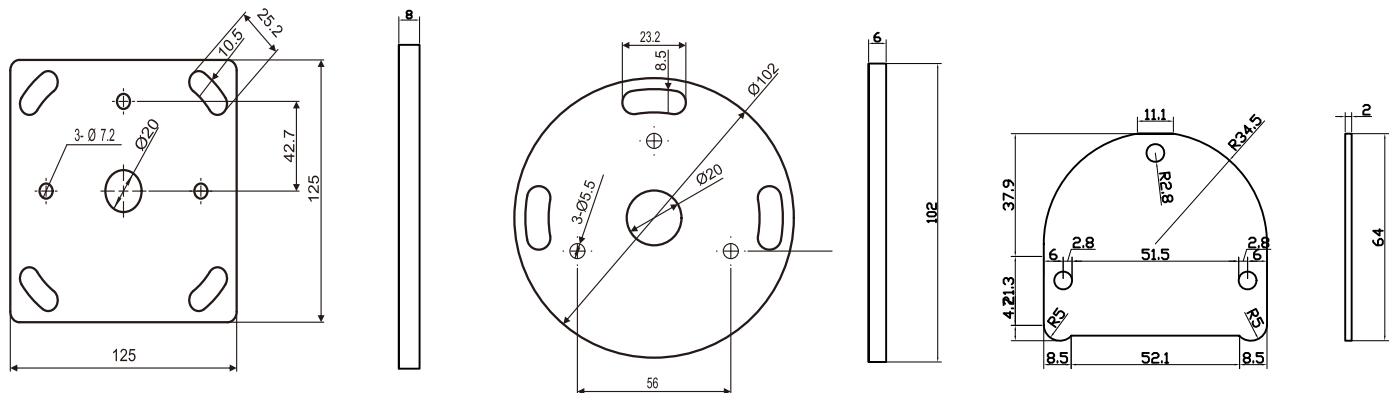
◆ 规格表说明 Specification



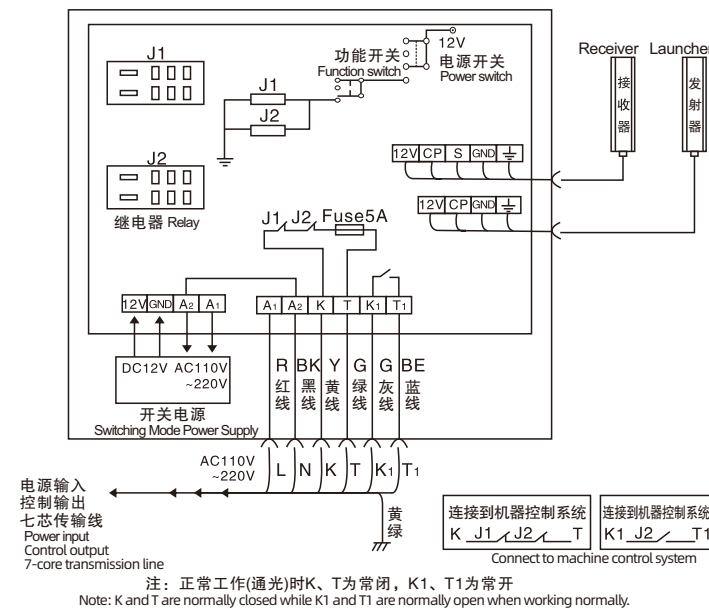
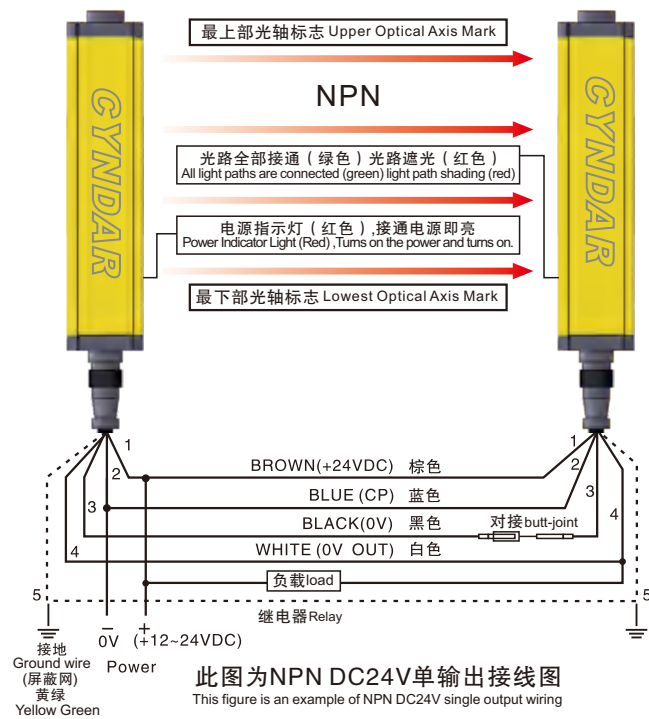
◆ 产品技术参数 Technical parameters of products

工作电源 Working power supply	AC220V/110V ± % 50/60Hz 或DC24V
输出触点容量 Output Contact Capacity	AC250V5A
功耗Power waste	≤15W
适用温度Applicable temperature	-10℃~50℃
环境温度 Ambient temperature	20℃, RH≤85%
响应时间 Response Time	<15ms (含控制器Containing controller)
绝缘电阻 Insulation Resistance	>100MΩ
介电强度 Dielectric strength	AC150V, 60s
抗光干扰 Anti light interference	10000Lux(入射角Incidence angle ≥ 5°)
继电器寿命 Relay life	≥100万次 (可更换) 1 million times (replaceable)
保护高度 Height of protection	H=光轴间距Beam pitch X (光束数Beam number-1)
光轴间距 Beam pitch	40mm,80mm
保护距离 Protection distance	2面sides≤20000mm, 3面sides≤15000mm

◆ 外型尺寸 Outline size



◆ 接线图 Wiring diagram



◆ 规格一览表 List of specifications

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	反射镜高度mm(j) Screen height
40mm (K)	4	120	201	CSAT04/40-120	351
	6	200	281	CSAT06/40-120	431
	8	280	361	CSAT08/40-120	511
	10	360	441	CSAT10/40-120	591
	12	440	521	CSAT12/40-120	671
	14	520	601	CSAT14/40-120	751
	16	600	681	CSAT16/40-120	831
	18	680	761	CSAT18/40-120	911
	20	760	841	CSAT20/40-120	991
	22	840	921	CSAT22/40-120	1071
	24	920	1001	CSAT24/40-120	1151
	26	1000	1081	CSAT26/40-120	1231
	28	1080	1161	CSAT28/40-120	1311
	30	1160	1241	CSAT30/40-120	1391
	32	1240	1321	CSAT32/40-120	1471
80mm (K)	4	240	341	CSAT04/80-240	491
	6	400	501	CSAT06/80-400	651
	8	560	661	CSAT08/80-560	811
	10	720	821	CSAT10/80-720	971
	12	880	981	CSAT12/80-880	1131
	14	1040	1141	CSAT14/80-1040	1291
	16	1200	1301	CSAT16/80-1200	1451
	18	1360	1461	CSAT18/80-1360	1611
	20	1520	1621	CSAT20/80-1520	1771
	22	1680	1781	CSAT22/80-1680	1931
	24	1840	1941	CSAT24/80-1840	2091
	26	2000	2101	CSAT26/80-2000	2251
	28	2160	2261	CSAT28/80-2160	2411
	30	2320	2421	CSAT30/40-2320	2571
	32	2480	2581	CSAT32/40-2480	2731

备注: 需要其他规格配落地支架可以参照各系列规格表

Note: If other specifications are needed, the ground support can be referred to the specifications of each series.