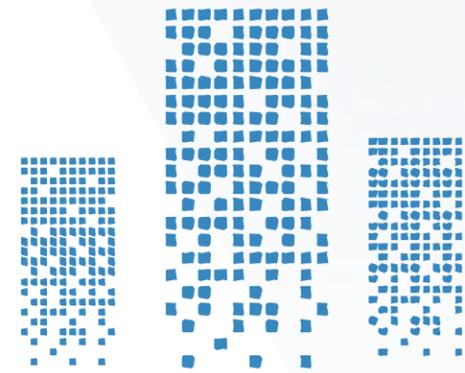


CYNDAR[®]

专注 高端 品质



CE ISO9001:2015



科技，给见未来
Technology changes the future

新达科技

020-83717854

全国服务热线

广州市新达电子科技有限公司

广州市天河区科林路18号6栋301-260房

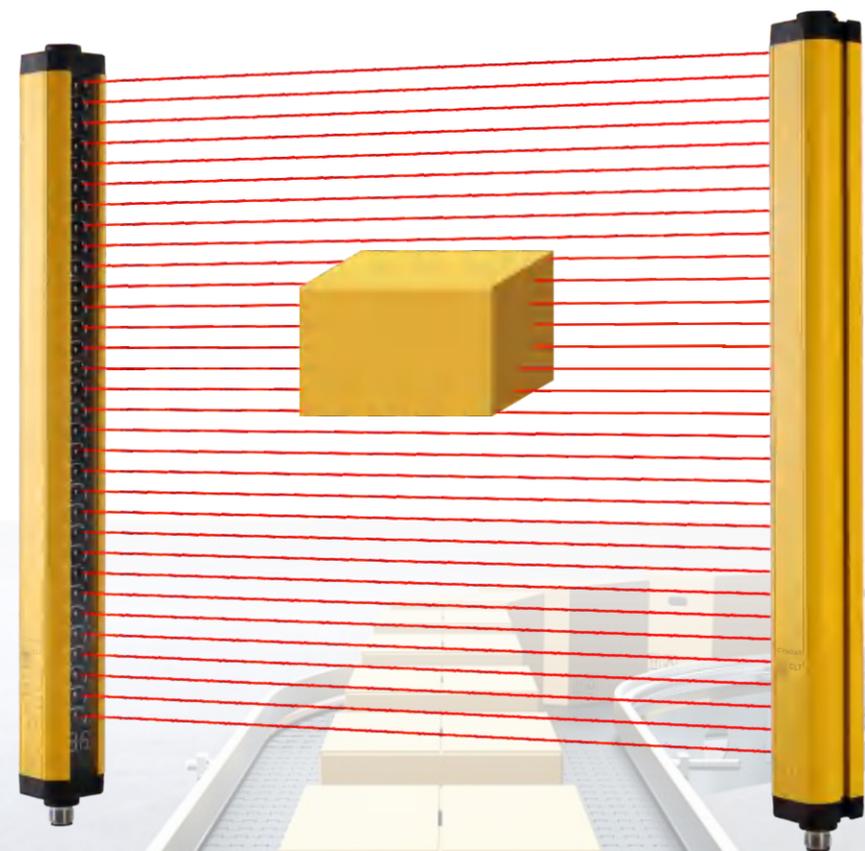
CN:www.gzcyndar.cn EN:www.gzcyndar.com

COMPREHENSIVE
SAMPLE OF SENSORS

安全传感器

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



高精度测量检测光幕-CLT-CMT High-precision measurement and detection light curtain

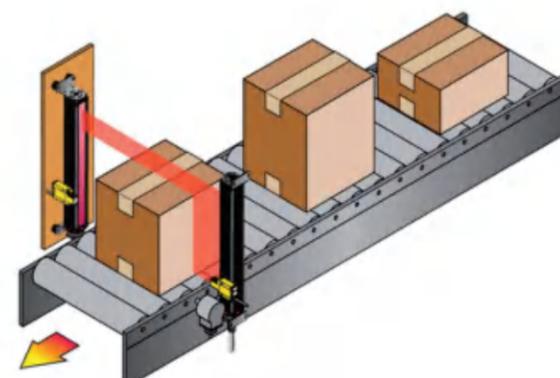
- 超快响应速度 (最高5ms)
- 2.5mm高精度测量检测
- RS485/232/模拟量多种输出
- 能有效屏蔽99%干扰信号
- Ultra-fast response speed (up to 5ms)
- 2.5mm high precision measurement and detection
- RS485/232/analog multiple output
- Can effectively shield 99% of interference signals

广泛适用于尺寸测量、体积测量、精度纠偏、孔洞检测、中心定位、零件计数等复杂在线检测和测量。

It is widely used in complex online detection and measurement such as size measurement, volume measurement, precision correction, hole detection, center positioning, and part counting.

◆ CLT测量、检测光幕Photoelectric protection device

- ★ 高精度的CLT系列测量光幕适用于高精度的检测和测量。包括在线检测、尺寸测量、轮廓检测、精度纠偏、孔洞检测、外形检测、边缘和中心定位，张力控制，零件计数、在线产品尺寸检测和以上类似的检测和测量。每套系统包括一对高分辨率的发射器和接收器、两条电缆。
- ★ 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36mm*36mm,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。
- ★ High precision CLT series measuring light curtain is suitable for high precision detection and measurement. It includes on-line detection, size measurement, contour detection, accuracy correction, hole detection, shape detection, edge and center positioning, tension control, part counting, on-line product size detection and similar detection and measurement. Each system consists of a high-resolution transmitter and receiver, and two cables.
- ★ 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 36mm*36mm. The safety sensor can be connected to the cable (M12) through the air socket.
- ★ All electronic components adopt world-renowned brand accessories.



CLFT IP68

304不锈钢螺丝
密封部分全部采用密封圈
IP68级防水测量检测光幕
304 stainless steel screw,
sealing part all adopt sealing ring,
IP68 class waterproof safety light curtain

◆ 产品配置 Product configuration

控制器、发光器、受光器、传输线组成。

The controller, the light emitter, the light receiver and the transmission line are composed.



7芯数据线
7-core data line



间距1.25、2.5、5mm外形圆
Distance 1.25, 2.5, 5mm
shape circle



间距10mm外形圆
Distance 10mm shape circle



间距20mm外形圆
Distance 20mm shape circle

◆ 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	1.25mm	2.5mm	5mm	10mm	20mm	40mm
检测精度 Check the accuracy	2mm	3.75mm	6.5mm	15mm	25mm	45mm
光束数 Beam number	64\96...480	32\48...480	16\24...480	8\10...480	4\6...480	4\6...480
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、30~10000mm					
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	36x36xLmm(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					
电源电压 Supply voltage	DC12/24V					
输出 Output	RS485/RS232 I:4-20mA U:1-10V					
输出状态 Output state	所有光轴受光时ON (接收显示绿灯) 数码管显示00 ON (Receiving Display Green Light) Digital Tube Display 00 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 透光 (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	防水圆形航空插座, 配专用连接电缆, 投光器7/5芯, 受光器7/5芯 Waterproof circular air socket with special connecting cable, 7/5 core of projector and 7/5 core 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					

测量、检测光幕应用介绍

Introduction to the Application of Measuring and Detecting Light Curtain

纸板箱尺寸测量:

可以测量物体的长度、宽度、高度, 并且将数据发送到后台程序来算物体的体积合成运算。

Size measurement of cardboard boxes:

It can measure the length, width and height of the object, and send the data to the background program to calculate the volume synthesis operation of the object.

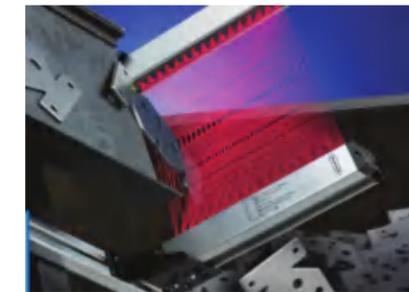


对掉落的扁平小物体计数:

用于高精度检测的独特光斑同步多光束红外LED发射和接收产生精确的光线交叉斑,且有极精细小物体的检测功能。

Counting of Falling Flat Small Objects:

Unique facula synchronous multi-beam infrared LED for high-precision detection generates accurate cross-spot of light, and has the detection function of extremely small objects.

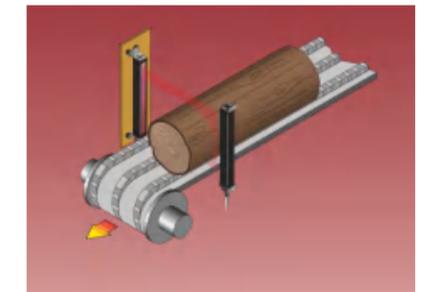


木材外型尺寸测量:

检测圆木直径,用于木材表面加工。进入剥皮设备前,测量原木外径,根据原木的大小调整夹具和剥皮刀具,准确地测量原木尺寸能很好的保证生产稳定和剥皮设备不受损坏。

Tyre classification:

Two sets of light curtains are used to measure the inner and outer diameters of the tires, and the tires are conveyed to the corresponding conveyor belt. If either of the dimensions of the tires does not conform to the specifications, they will be packed without air.



木材切割:

测量木板的长度和检测是否变形。超出规格的木板将被剔除。同时,通过测量长度来确定木板是否弯曲变形,因为弯曲变形会引起木板的长度变化。

Wood cutting

Measure the length of the board and check whether it is deformed or not. Boards that exceed specifications will be removed. At the same time, the length of the board can be measured to determine whether the board is bent or not, because the bending deformation of the board will cause the length of the board to change.



轮胎分类:

采用两套测量光幕检测轮胎的内外径尺寸,决定轮胎输送到相应输送带,如果轮胎的尺寸哪一个规格也不符合,将会被气绝装箱。

Tyre classification:

Two sets of light curtains are used to measure the inner and outer diameters of the tires, and the tires are conveyed to the corresponding conveyor belt. If either of the dimensions of the tires does not conform to the specifications, they will be packed without air.



小物体计数:

在生产过程中,小螺钉从供料桶中输送出来,掉落到塑料袋内。光幕对掉落小螺钉计数,并监控每袋包装的数量。接收器的输出包含一个5毫秒的脉冲展宽器(关延时)来提高计数精度。

Counting of Small Objects:

In the production process, the small screw is conveyed from the feeding barrel and falls into the plastic bag. The light screen counts the dropping small screws and monitors the number of packages per bag. The transmitter of the receiver consists of a 5 millisecond pulse stretcher (turn-off delay) to improve the counting accuracy.

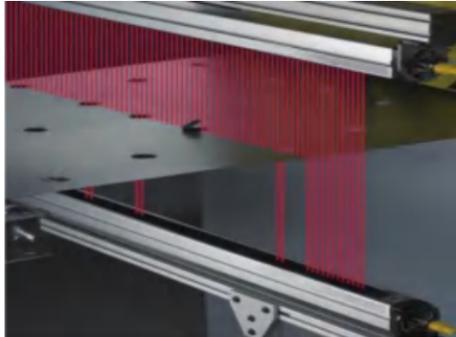


冲孔检测:

检测金属板上冲孔的缺少或卷材切割的定位或板材有孔洞。

Punching test:

Detection of the absence of punches on metal sheets or the location of coil cutting or the presence of holes in sheets.



布毯侦测:

当布毯通过测量光幕,光幕侦测出布毯边缘及织簇边缘则送出信号给控制系统作位置校正。

Cloth blanket detection:

When the blanket passes through the measuring light curtain, the light curtain detects the edge of the blanket green and the edge of the fabric cluster and sends out signals to the control system for position correction.



带提示指示灯,用于零件组装生产:

引导装配工人正确的拾取零件,防止漏掉零件和零件装配次序错误的发生。

Indicator lamp with hint for assembly and production of parts:

Guide assembly workers to pick up parts correctly to prevent missing parts and parts assembly sequence errors.

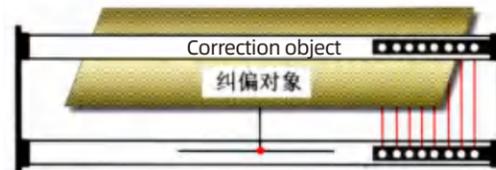


纸箱包装行业纠偏

Correction of deviation in carton packaging industry



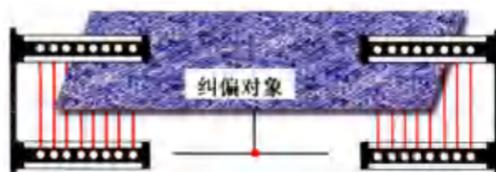
单套对边纠偏光幕
Single set of opposite-side rectifying curtain



单套对边纠偏光幕 (含保护管)
Single set of opposite-side rectifying light curtain (including protective tube)

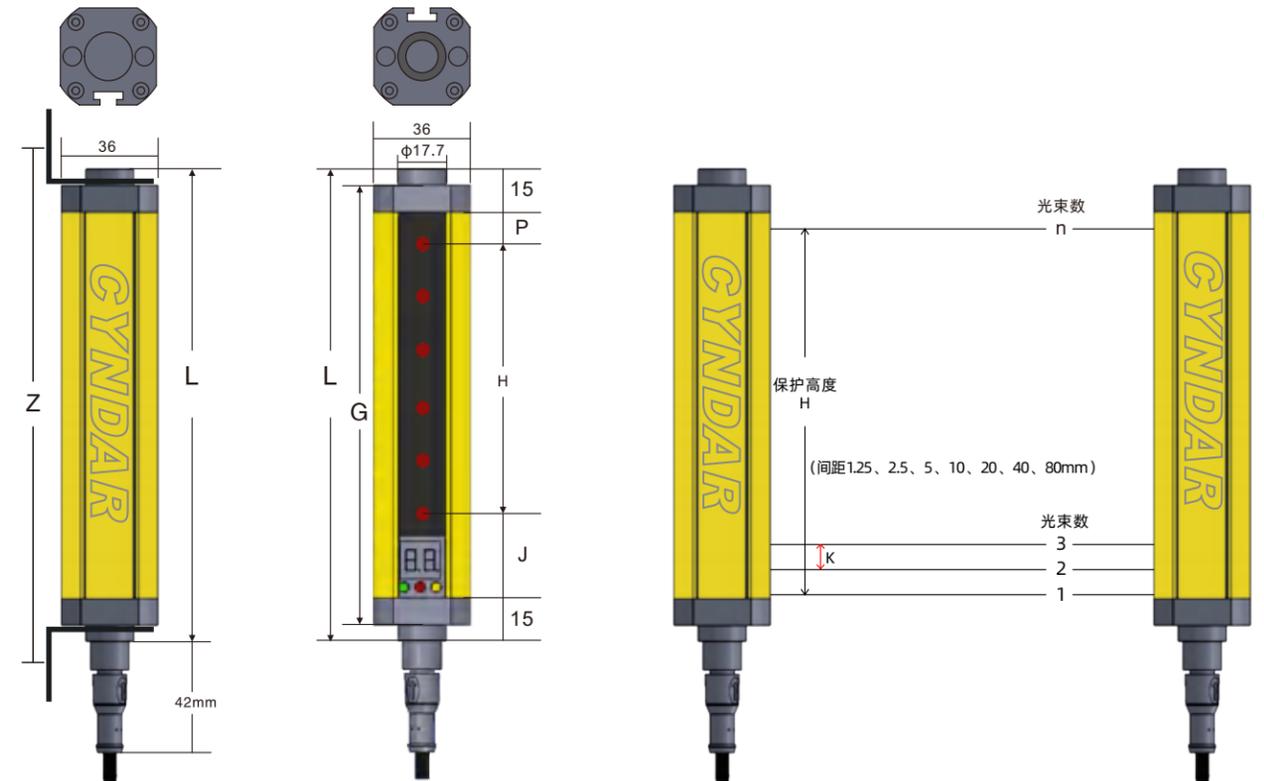


双边纠偏光幕 (含保护管)
Bilateral polarization correction curtain (with protective tube)



双边纠偏光幕 (两套组合)
Bilateral polarization correction curtain (two sets of combination)

◆ CLT外形尺寸 Dimensions



备注:
Remarks

H = (n-1) * K = 检测高度
Detection height

L: 光幕总长度
Total length of light screen

n: 光轴数
Optical axis number

Z = L + 30mm = 上下直角架固定方式中心距离
Center Distance of Fixed Mode of Upper and Lower Right Angle Frames

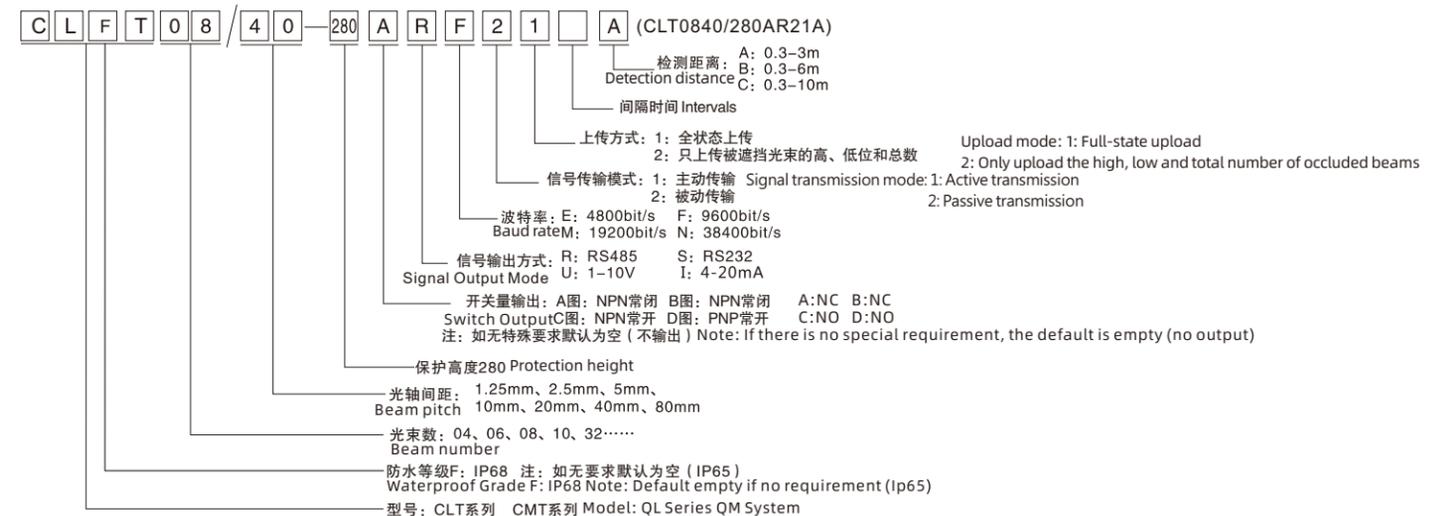
K: 光轴间距
Optical axis spacing

L = P + H + J + 15mm + 15mm

K (mm)	2.5	5	10	20	40	80
P (mm)	1.25	2.5	5	10	10	10
J (mm)	25.75	27	29.5	34.5	34.5	35

◆ CLT型安全光幕规格表说明如下:

CLT ultra-thin safety light curtain specification sheet is as follows



例: CLT08/40-280ARA21: 测量光幕8光束40mm间距 保护高度280mm NPN常闭RS485输出 波特率9600bit/s被动传输模式 全状态上传 检测距离3米。
QL08/40-280ARA21A: Measure the protective height of 40mm spacing of 8 beams of light curtain 280 mm NPN NC Rs485 output baud rate 9600 bit/s passive transmission mode full-state upload detection distance of 3 meters.
详细型号请见下一页规格表 Detailed models can be found on the next page.

◆CLT规格一览表pecification 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	
					RS485	4-20MA	0-10V		
1.25mm (K)	64	78.75	134.37	CLT64/1.25-78.75	R	I	U	0.3-3m	
	96	118.75	174.37	CLT96/1.25-118.75	R	I	U	0.3-3m	
	128	158.75	214.37	CLT128/1.25-158.75	R	I	U	0.3-3m	
	160	198.75	254.37	CLT160/1.25-198.75	R	I	U	0.3-3m	
	192	238.75	294.37	CLT192/1.25-238.75	R	I	U	0.3-3m	
	224	278.75	334.37	CLT224/1.25-278.75	R	I	U	0.3-3m	
	256	318.75	374.37	CLT256/1.25-318.75	R	I	U	0.3-3m	
	288	358.75	414.37	CLT288/1.25-358.75	R	I	U	0.3-3m	
	320	398.75	454.37	CLT320/1.25-398.75	R	I	U	0.3-3m	
	352	438.75	494.37	CLT352/1.25-438.75	R	I	U	0.3-3m	
	384	478.75	534.37	CLT384/1.25-478.75	R	I	U	0.3-3m	
	416	518.75	574.37	CLT416/1.25-518.75	R	I	U	0.3-3m	
	448	558.75	614.37	CLT448/1.25-558.75	R	I	U	0.3-3m	
	480	598.75	654.37	CLT480/1.25-598.75	R	I	U	0.3-3m	
	2.5mm (K)	32	77.5	134.5	CLT32/2.5-77.5	R	I	U	0.3-3m
		48	117.5	174.5	CLT48/2.5-117.5	R	I	U	0.3-3m
64		157.5	214.5	CLT64/2.5-157.5	R	I	U	0.3-3m	
80		197.5	254.5	CLT80/2.5-197.5	R	I	U	0.3-3m	
96		237.5	294.5	CLT96/2.5-237.5	R	I	U	0.3-3m	
112		277.5	334.5	CLT112/2.5-277.5	R	I	U	0.3-3m	
128		317.5	374.5	CLT128/2.5-317.5	R	I	U	0.3-3m	
144		357.5	414.5	CLT144/2.5-357.5	R	I	U	0.3-3m	
160		397.5	454.5	CLT160/2.5-397.5	R	I	U	0.3-3m	
176		437.5	494.5	CLT176/2.5-437.5	R	I	U	0.3-3m	
192		477.5	534.5	CLT192/2.5-477.5	R	I	U	0.3-3m	
208		517.5	574.5	CLT208/2.5-517.5	R	I	U	0.3-3m	
224		557.5	614.5	CLT224/2.5-557.5	R	I	U	0.3-3m	
480		1197.5	1254.5	CLT480/2.5-1197.5	R	I	U	0.3-3m	
5mm (K)		16	75	134.5	CLT16/5-75	R	I	U	0.3-3m
		32	155	214.5	CLT32/5-155	R	I	U	0.3-3m
	48	235	294.5	CLT48/5-235	R	I	U	0.3-3m	
	64	315	374.5	CLT64/5-315	R	I	U	0.3-3m	
	80	395	454.5	CLT80/5-395	R	I	U	0.3-3m	
	96	475	534.5	CLT96/5-475	R	I	U	0.3-3m	
	112	555	614.5	CLT112/5-555	R	I	U	0.3-3m	
	128	635	694.5	CLT128/5-635	R	I	U	0.3-3m	
	144	715	774.5	CLT144/5-715	R	I	U	0.3-3m	
	160	795	854.5	CLT160/5-795	R	I	U	0.3-3m	
	176	875	934.5	CLT176/5-875	R	I	U	0.3-3m	
	192	955	1014.5	CLT192/5-955	R	I	U	0.3-3m	
	208	1035	1094.5	CLT208/5-1035	R	I	U	0.3-3m	
	480	2395	2454.5	CLT480/5-2395	R	I	U	0.3-3m	
	10mm (K)	8	70	134.5	CLT08/10-70	R	I	U	0.3-3m
		10	90	154.5	CLT10/10-90	R	I	U	0.3-3m
12		110	174.5	CLT12/10-110	R	I	U	0.3-3m	
14		130	194.5	CLT14/10-130	R	I	U	0.3-3m	
16		150	214.5	CLT16/10-150	R	I	U	0.3-3m	
18		170	234.5	CLT18/10-170	R	I	U	0.3-3m	
20		190	254.5	CLT20/10-190	R	I	U	0.3-3m	
22		210	274.5	CLT22/10-210	R	I	U	0.3-3m	
24		230	294.5	CLT24/10-230	R	I	U	0.3-3m	
26		250	314.5	CLT26/10-250	R	I	U	0.3-3m	
28		270	334.5	CLT28/10-270	R	I	U	0.3-3m	
30		290	354.5	CLT30/10-290	R	I	U	0.3-3m	
32		310	374.5	CLT32/10-310	R	I	U	0.3-3m	
34		330	394.5	CLT34/10-330	R	I	U	0.3-3m	
20mm (K)		4	60	154.5	CLT04/20-60	R	I	U	0.3-3m
		6	100	194.5	CLT06/20-100	R	I	U	0.3-3m
	8	140	234.5	CLT08/20-140	R	I	U	0.3-3m	
	10	180	274.5	CLT10/20-180	R	I	U	0.3-3m	
	12	220	314.5	CLT12/20-220	R	I	U	0.3-3m	
	14	260	354.5	CLT14/20-260	R	I	U	0.3-3m	
	16	300	394.5	CLT16/20-300	R	I	U	0.3-3m	
	18	340	434.5	CLT18/20-340	R	I	U	0.3-3m	
	20	380	474.5	CLT20/20-380	R	I	U	0.3-3m	
	22	420	514.5	CLT22/20-420	R	I	U	0.3-3m	
	24	460	554.5	CLT24/20-460	R	I	U	0.3-3m	
	26	500	594.5	CLT26/20-500	R	I	U	0.3-3m	
	28	540	634.5	CLT28/20-540	R	I	U	0.3-3m	
	30	580	674.5	CLT30/20-580	R	I	U	0.3-3m	
	32	620	714.5	CLT32/20-620	R	I	U	0.3-3m	
	40mm (K)	4	120	194.5	CLT04/40-120	R	I	U	0.3-3m
6		200	274.5	CLT06/40-200	R	I	U	0.3-3m	
8		280	354.5	CLT08/40-280	R	I	U	0.3-3m	
10		360	434.5	CLT10/40-360	R	I	U	0.3-3m	
12		440	514.5	CLT12/40-440	R	I	U	0.3-3m	
14		520	594.5	CLT14/40-520	R	I	U	0.3-3m	
16		600	674.5	CLT16/40-600	R	I	U	0.3-3m	
18		680	754.5	CLT18/40-680	R	I	U	0.3-3m	
20		760	834.5	CLT20/40-760	R	I	U	0.3-3m	
22		840	914.5	CLT22/40-840	R	I	U	0.3-3m	
24		920	994.5	CLT24/40-920	R	I	U	0.3-3m	
26		1000	1074.5	CLT26/40-1000	R	I	U	0.3-3m	
28		1080	1154.5	CLT28/40-1080	R	I	U	0.3-3m	
30		1160	1234.5	CLT30/40-1160	R	I	U	0.3-3m	
32		1240	1314.5	CLT32/40-1240	R	I	U	0.3-3m	
80mm (K)		4	240	315	CLT04/80-240	R	I	U	0.3-3m
	6	400	475	CLT06/80-400	R	I	U	0.3-3m	
	8	560	635	CLT08/80-560	R	I	U	0.3-3m	
	10	720	795	CLT10/80-720	R	I	U	0.3-3m	
	12	880	955	CLT12/80-880	R	I	U	0.3-3m	
	14	1040	1115	CLT14/80-1040	R	I	U	0.3-3m	
	16	1200	1275	CLT16/80-1200	R	I	U	0.3-3m	
	18	1360	1435	CLT18/80-1360	R	I	U	0.3-3m	
	20	1520	1595	CLT20/80-1520	R	I	U	0.3-3m	
	...	...	...	...	R	I	U	0.3-3m
	30	2320	2395	CLT30/80-2320	R	I	U	0.3-3m	
	32	2480	2555	CLT32/80-2480	R	I	U	0.3-3m	

备注:超出以上规格表的光束数可以另外注明,特殊规格可以另外订做。间距20-40mm的检测距离达4米以上请提前说明。
Note: The number of beams exceeding the above specifications can be indicated separately. Special specifications can be customized separately.
The distance between 20 and 40 mm is more than 4 meters. Please explain in advance.

◆帧格式 Frame format

- 参考Modbus RTU协议定制,使用RS485通讯;
- 波特率4800bit/s, 9600bit/s, 19200bit/s, 38400bit/s默认9600bit/s;
- 数据8bit; 无奇偶校验; 1bit停止位; 16位CRC校验。

Reference to Modbus RTU protocol customization, using RS485 communication;
Baud rate 4800 bit / s, 9600 bit / s, 19200 BOT / s, 38400 bit / s, default 9600 bit / s;
Data 8 bit; no parity check; 1 bit stop bit; 16 bit CRC check.

◆RS485/232信号主动传输模式 Active transmission mode of RS485/232 signal

主动访问式: 默认每隔100ms自动上传一次数据给上位机(速率时间可设定)。
Active access: By default, data is automatically uploaded to the host computer every 100 ms (speed and time can be set).

◆RS485/232信号被动传输模式 Passive transmission mode of RS485/232 signal

被动访问式: 同时并联多套光幕, 由上位机发送指令, 才上传数据。可任意修改地址码。
Passive access mode: multiple sets of light curtains are connected in parallel at the same time, and the upper computer sends instructions before uploading data.
The address code can be modified arbitrarily.

◆RS485/232通讯协议方式(方式一) RS485/232 Communication Protocol (Mode 1)

该通讯方式把所有光点的状态直接上传给上位机, 由上位机根据使用要求直接进行数据处理。
The communication mode uploads the status of all light points directly to the upper computer, which processes data directly according to the requirements of use.

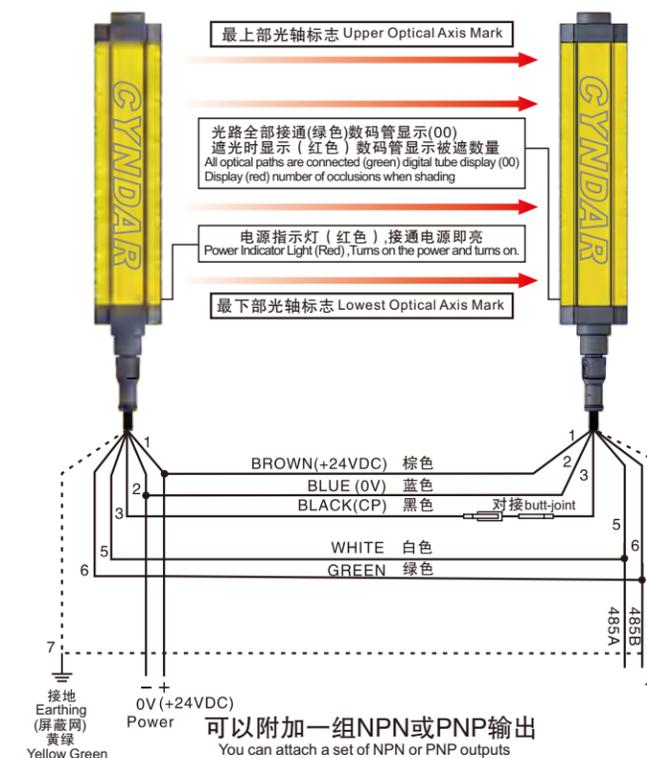
空闲 Free	0	1	2	3	---	N	N+1	N+2	空闲 Free
起始位 ≥ 10ms Starting position	起始位 0x03H	光点总数 Total spot count	单帧数据量 Single frame data volume	数据1 Data 1	---	数据N Data N	CRC校验 高字节 CRC Check High Bytes	CRC校验 低字节 CRC Check Low Bytes	停止位 ≥ 10ms Stop bit

◆RS485/232通讯协议方式(方式二) RS485/232 Communication Protocol (Mode 2)

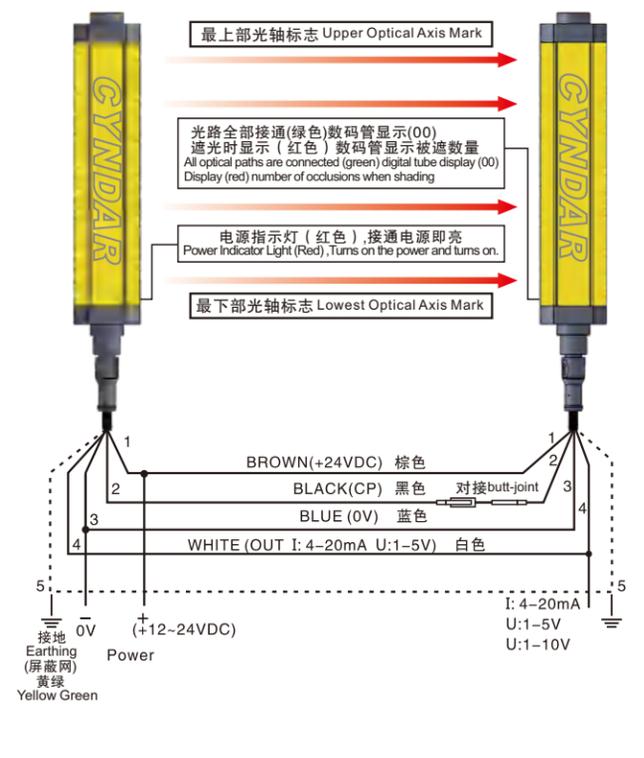
该通讯方式仅把被遮挡的最高点、最低点、被遮挡光电总数的数据直接上传给上位机, 由上位机根据使用要求直接进行数据处理。
The communication mode only uploads the data of the highest point, the lowest point and the total number of photovoltaic shielded to the upper computer directly, and the upper computer processes the data directly according to the use requirements.

空闲 Free	第一位 First place	第二位 Second place	第三位 Third place	第四位 Fourth place	第五位 Fifth place	第六位 Sixth place	第七位 Seventh place	空闲 Free
起始位 ≥ 10ms Starting position	起始码 0x03	光点总数 Total spot count	单帧数据量 0x07 Single frame data volume	光幕遮挡 最高点 The highest point of light screen occlusion	光幕遮挡 最低点 The lowest point of light screen occlusion	光幕遮挡 总数 Total number of light screens	校验码 Check code	停止位 ≥ 10ms Stop bit

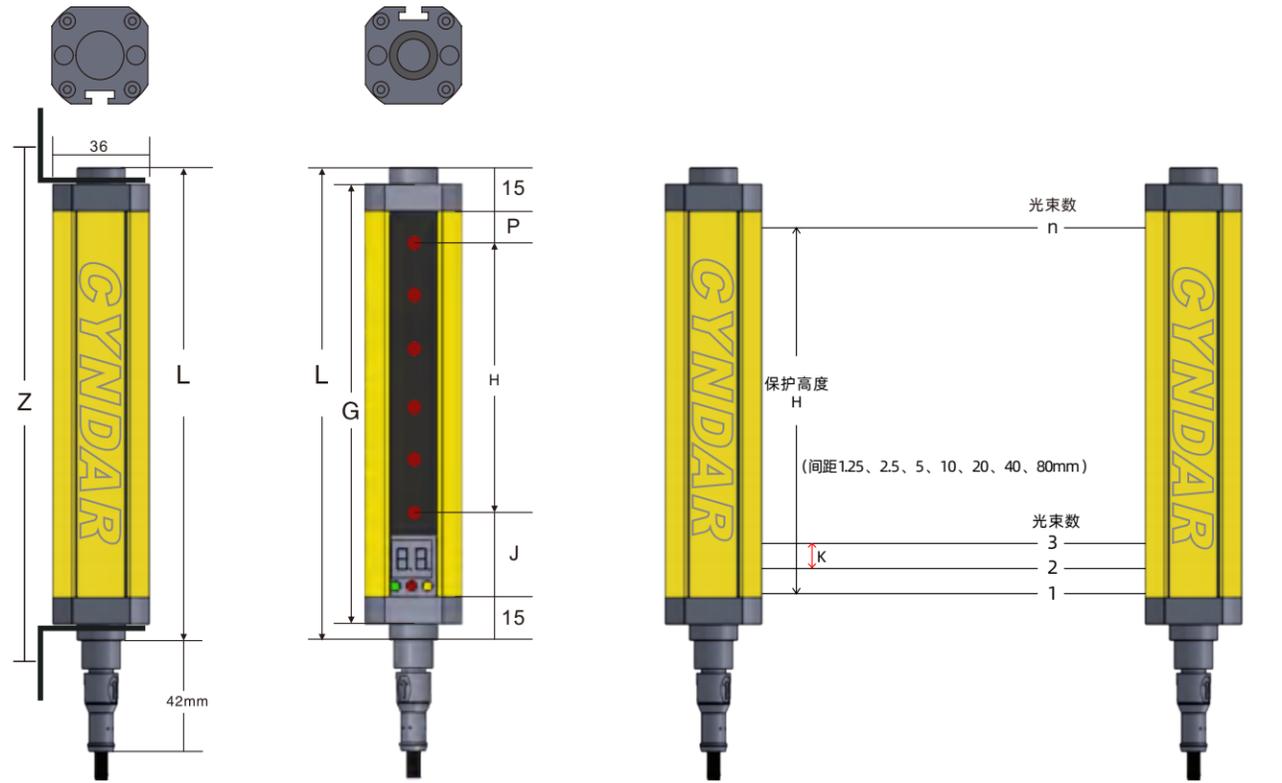
◆CLT七芯RS485/RS232系列接线图 CLT 7-core RS485/RS232 series wiring diagram



◆CLT五芯模拟量U/I系列接线图 CLT 5-core analog U/I series wiring diagram



◆ CMT外形尺寸 Dimensions



备注:
Remarks

H = (n-1) * K = 检测高度
Detection height

L: 光幕总长度
Total length of light screen

n: 光轴数
Optical axis number

Z = L + 30mm = 上下直角架固定方式中心距离
Center Distance of Fixed Mode of Upper and Lower Right Angle Frames

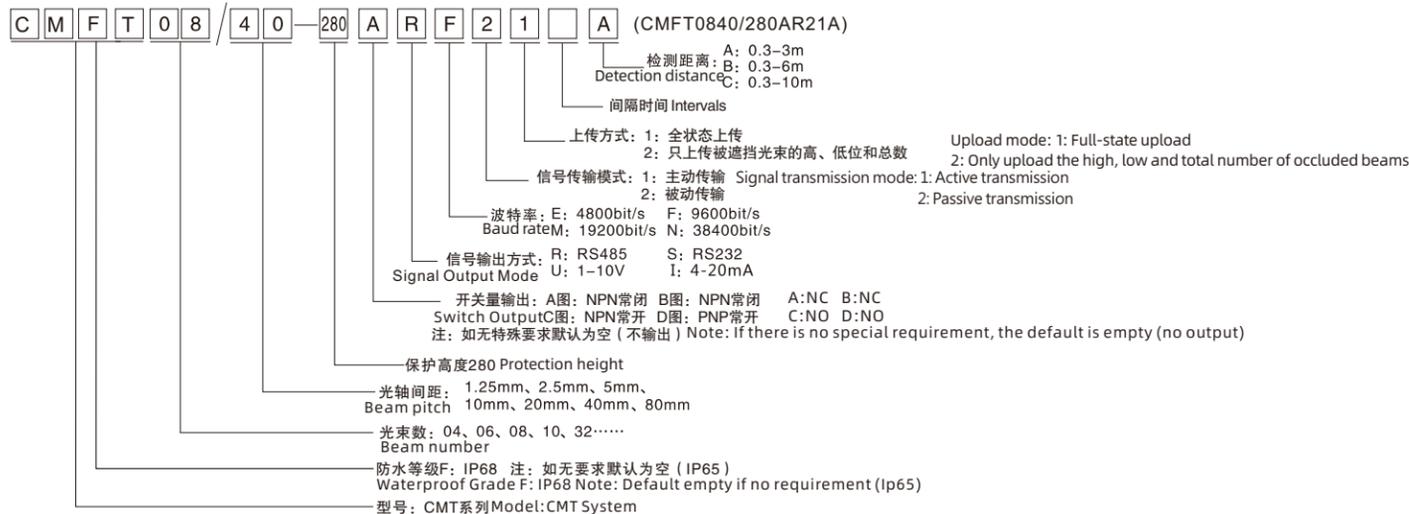
K: 光轴间距
Optical axis spacing

L = P + H + J + 15mm + 15mm

K (mm)	2.5	5	10	20	40	80
P (mm)	1	4	5	10	10	10
J (mm)	24	24	28	33	33	35

◆ CMT型安全光幕规格表说明如下:

CMT ultra-thin safety light curtain specification sheet is as follows



例: QL08/40-280ARA21: 测量光幕8光束40mm间距 保护高度280mm NPN常闭RS485输出 波特率9600bit/s被动传输模式 全状态上传 检测距离3米。

QL08/40-280ARA21A: Measure the protective height of 40mm spacing of 8 beams of light curtain 280 mm NPN NC RS485 output baud rate 9600 bit/s passive transmission mode full-state upload detection distance of 3 meters.

详细型号请见下一页规格表 Detailed models can be found on the next page.

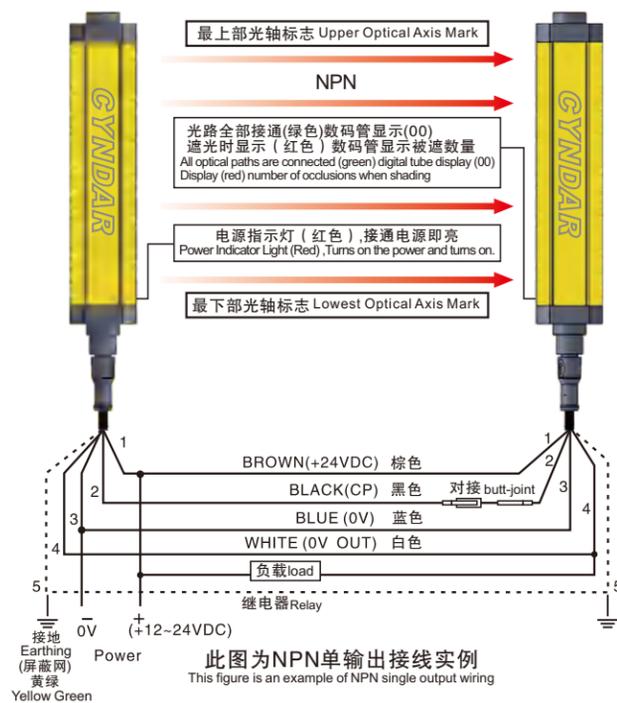
◆ CMT规格一览表 Specification List

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		
1.25mm (K)	64	78.75	134.37	CMT64/1.25-78.75	A	B	C	D	0.3-3m	
	96	118.75	174.37	CMT96/1.25-118.75	A	B	C	D	0.3-3m	
	128	158.75	214.37	CMT128/1.25-158.75	A	B	C	D	0.3-3m	
	160	198.75	254.37	CMT160/1.25-198.75	A	B	C	D	0.3-3m	
	192	238.75	294.37	CMT192/1.25-238.75	A	B	C	D	0.3-3m	
	224	278.75	334.37	CMT224/1.25-278.75	A	B	C	D	0.3-3m	
	256	318.75	374.37	CMT256/1.25-318.75	A	B	C	D	0.3-3m	
	288	358.75	414.37	CMT288/1.25-358.75	A	B	C	D	0.3-3m	
	320	398.75	454.37	CMT320/1.25-398.75	A	B	C	D	0.3-3m	
	352	438.75	494.37	CMT352/1.25-438.75	A	B	C	D	0.3-3m	
	384	478.75	534.37	CMT384/1.25-478.75	A	B	C	D	0.3-3m	
	416	518.75	574.37	CMT416/1.25-518.75	A	B	C	D	0.3-3m	
	448	558.75	614.37	CMT448/1.25-558.75	A	B	C	D	0.3-3m	
	480	598.75	654.37	CMT480/1.25-598.75	A	B	C	D	0.3-3m	
	2.5mm (K)	32	77.5	132.5	CMT32/2.5-77.5	A	B	C	D	0.3-3m
		48	117.5	172.5	CMT48/2.5-117.5	A	B	C	D	0.3-3m
64		157.5	212.5	CMT64/2.5-157.5	A	B	C	D	0.3-3m	
80		197.5	252.5	CMT80/2.5-197.5	A	B	C	D	0.3-3m	
96		237.5	292.5	CMT96/2.5-237.5	A	B	C	D	0.3-3m	
112		277.5	332.5	CMT112/2.5-277.5	A	B	C	D	0.3-3m	
128		317.5	372.5	CMT128/2.5-317.5	A	B	C	D	0.3-3m	
144		357.5	412.5	CMT144/2.5-357.5	A	B	C	D	0.3-3m	
160		397.5	452.5	CMT160/2.5-397.5	A	B	C	D	0.3-3m	
176		437.5	492.5	CMT176/2.5-437.5	A	B	C	D	0.3-3m	
192		477.5	532.5	CMT192/2.5-477.5	A	B	C	D	0.3-3m	
208		517.5	572.5	CMT208/2.5-517.5	A	B	C	D	0.3-3m	
224		557.5	612.5	CMT224/2.5-557.5	A	B	C	D	0.3-3m	
480		1197.5	1252.5	CMT480/2.5-1197.5	A	B	C	D	0.3-3m	
5mm (K)		16	75	130	CMT16/5-75	A	B	C	D	0.3-3m
		32	155	210	CMT32/5-155	A	B	C	D	0.3-3m
	48	235	290	CMT48/5-235	A	B	C	D	0.3-3m	
	64	315	370	CMT64/5-315	A	B	C	D	0.3-3m	
	80	395	450	CMT80/5-395	A	B	C	D	0.3-3m	
	96	475	530	CMT96/5-475	A	B	C	D	0.3-3m	
	112	555	610	CMT112/5-555	A	B	C	D	0.3-3m	
	128	635	690	CMT128/5-635	A	B	C	D	0.3-3m	
	144	715	770	CMT144/5-715	A	B	C	D	0.3-3m	
	160	795	850	CMT160/5-795	A	B	C	D	0.3-3m	
	176	875	930	CMT176/5-875	A	B	C	D	0.3-3m	
	192	955	1010	CMT192/5-955	A	B	C	D	0.3-3m	
	208	1035	1090	CMT208/5-1035	A	B	C	D	0.3-3m	
	480	2395	2450	CMT480/5-2395	A	B	C	D	0.3-3m	
	10mm (K)	8	70	133	CMT08/10-70	A	B	C	D	0.3-3m
		10	90	153	CMT10/10-90	A	B	C	D	0.3-3m
12		110	173	CMT12/10-110	A	B	C	D	0.3-3m	
14		130	193	CMT14/10-130	A	B	C	D	0.3-3m	
16		150	213	CMT16/10-150	A	B	C	D	0.3-3m	
18		170	233	CMT18/10-170	A	B	C	D	0.3-3m	
20		190	253	CMT20/10-190	A	B	C	D	0.3-3m	
22		210	273	CMT22/10-210	A	B	C	D	0.3-3m	
24		230	293	CMT24/10-230	A	B	C	D	0.3-3m	
26		250	313	CMT26/10-250	A	B	C	D	0.3-3m	
28		270	333	CMT28/10-270	A	B	C	D	0.3-3m	
30		290	353	CMT30/10-290	A	B	C	D	0.3-3m	
32		310	373	CMT32/10-310	A	B	C	D	0.3-3m	
34		330	393	CMT34/10-330	A	B	C	D	0.3-3m	
20mm (K)		4	60	133	CMT04/20-60	A	B	C	D	0.3-3m
		6	100	173	CMT06/20-100	A	B	C	D	0.3-3m
	8	140	213	CMT08/20-140	A	B	C	D	0.3-3m	
	10	180	253	CMT10/20-180	A	B	C	D	0.3-3m	
	12	220	293	CMT12/20-220	A	B	C	D	0.3-3m	
	14	260	333	CMT14/20-260	A	B	C	D	0.3-3m	
	16	300	373	CMT16/20-300	A	B	C	D	0.3-3m	
	18	340	413	CMT18/20-340	A	B	C	D	0.3-3m	
	20	380	453	CMT20/20-380	A	B	C	D	0.3-3m	
	22	420	493	CMT22/20-420	A	B	C	D	0.3-3m	
	24	460	533	CMT24/20-460	A	B	C	D	0.3-3m	
	26	500	573	CMT26/20-500	A	B	C	D	0.3-3m	
	28	540	613	CMT28/20-540	A	B	C	D	0.3-3m	
	30	580	653	CMT30/20-580	A	B	C	D	0.3-3m	
	32	620	693	CMT32/20-620	A	B	C	D	0.3-3m	
	40mm (K)	4	120	193	CMT04/40-120	A	B	C	D	0.3-3m
6		200	273	CMT06/40-200	A	B	C	D	0.3-3m	
8		280	353	CMT08/40-280	A	B	C	D	0.3-3m	
10		360	433	CMT10/40-360	A	B	C	D	0.3-3m	
12		440	513	CMT12/40-440	A	B	C	D	0.3-3m	
14		520	593	CMT14/40-520	A	B	C	D	0.3-3m	
16		600	673	CMT16/40-600	A	B	C	D	0.3-3m	
18		680	753	CMT18/40-680	A	B	C	D	0.3-3m	
20		760	833	CMT20/40-760	A	B	C	D	0.3-3m	
22		840	913	CMT22/40-840	A	B	C	D	0.3-3m	
24		920	993	CMT24/40-920	A	B	C	D	0.3-3m	
26		1000	1073	CMT26/40-1000	A	B	C	D	0.3-3m	
28		1080	1153	CMT28/40-1080	A	B	C	D	0.3-3m	
30		1160	1233	CMT30/40-1160	A	B	C	D	0.3-3m	
32		1240	1313	CMT32/40-1240	A	B	C	D	0.3-3m	
80mm (K)		4	240	315	CMT04/80-240	A	B	C	D	0.3-3m
	6	400	475	CMT06/80-400	A	B	C	D	0.3-3m	
	8	560	635	CMT08/80-560	A	B	C	D	0.3-3m	
	10	720	795	CMT10/80-720	A	B	C	D	0.3-3m	
	12	880	955	CMT12/80-880	A	B	C	D	0.3-3m	
	14	1040	1105	CMT14/80-1040	A	B	C	D	0.3-3m	
	16	1200	1265	CMT16/80-1200	A	B	C	D	0.3-3m	
	18	1360	1425	CMT18/80-1360	A	B	C	D	0.3-3m	
	20	1520	1585	CMT20/80-1520	A	B	C	D	0.3-3m	
	...	...	...	...	A	B	C	D	0.3-3m
	30	2320	2395	CMT30/80-2320	A	B	C	D	0.3-3m	
	32	2480	2555	CMT32/80-2480	A	B	C	D	0.3-3m	

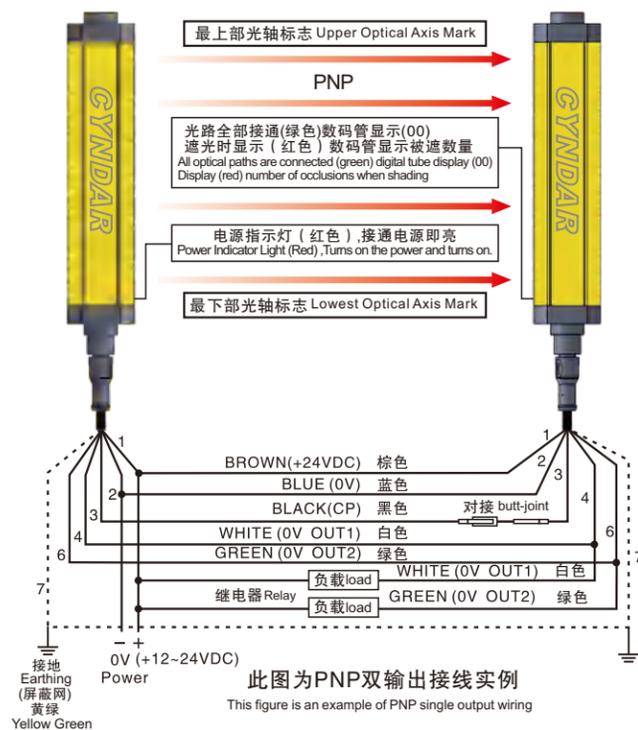
备注:超出以上规格表的光束数可以另外注明,特殊规格可以另外订做。间距20-40mm的检测距离达4米以上请提前说明。

Note: The number of beams exceeding the above specifications can be indicated separately. Special specifications can be customized separately. The distance between 20 and 40 mm is more than 4 meters. Please explain in advance.

◆ CMT五芯系列接线图 CMT 5-core Series Wiring Diagram



◆ CMT七芯系列接线图 CMT 7-core Series Wiring Diagram

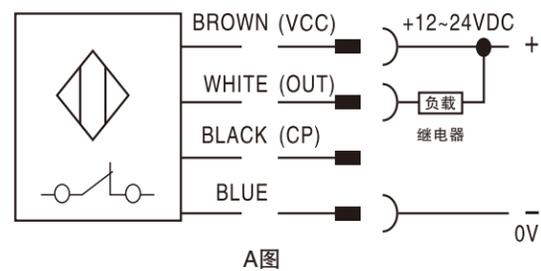


超快的响应时间为0.5ms
Ultra-fast response time is 0.5ms

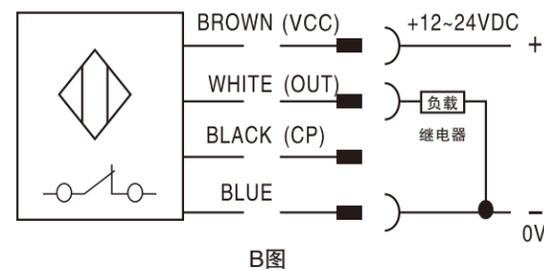
◆ CMT信号输出选择 (晶体管正常工作的实际输出)

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

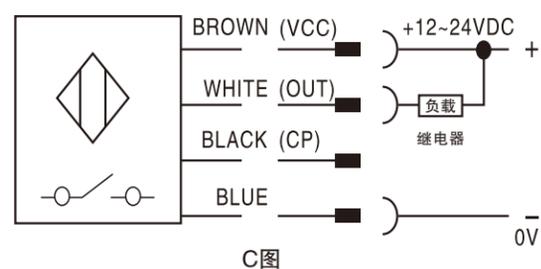
NPN(常闭)NC



PNP(常闭)PC



NPN(常开)NO



PNP(常开)PO

