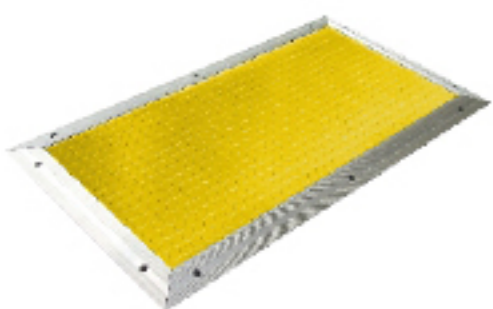


产品应用方案

安全地毯传感器



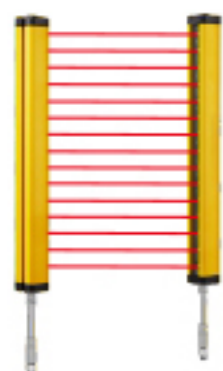
- 用于检测重量在20公斤以上的人或重物;
- 适合重型工况或特殊工业场合使用;
- 接受非标尺寸和异形安全地毯产品定制。

安全继电器模块/检知器



- 适用于高安全要求的工业现场中对各种信号的监控;
- 配置多功能拨码开关;
- 经验证的双通道安全监控电路设计。

安全光幕 (光电安全保护装置)



- 多种型号可选;
- 工业自动化生产流水线在线保护防止人进入保护人身安全;
- 与其他智能设备进行联动, 实现更高效的生产和安全管理。

安全门锁/安全门开关

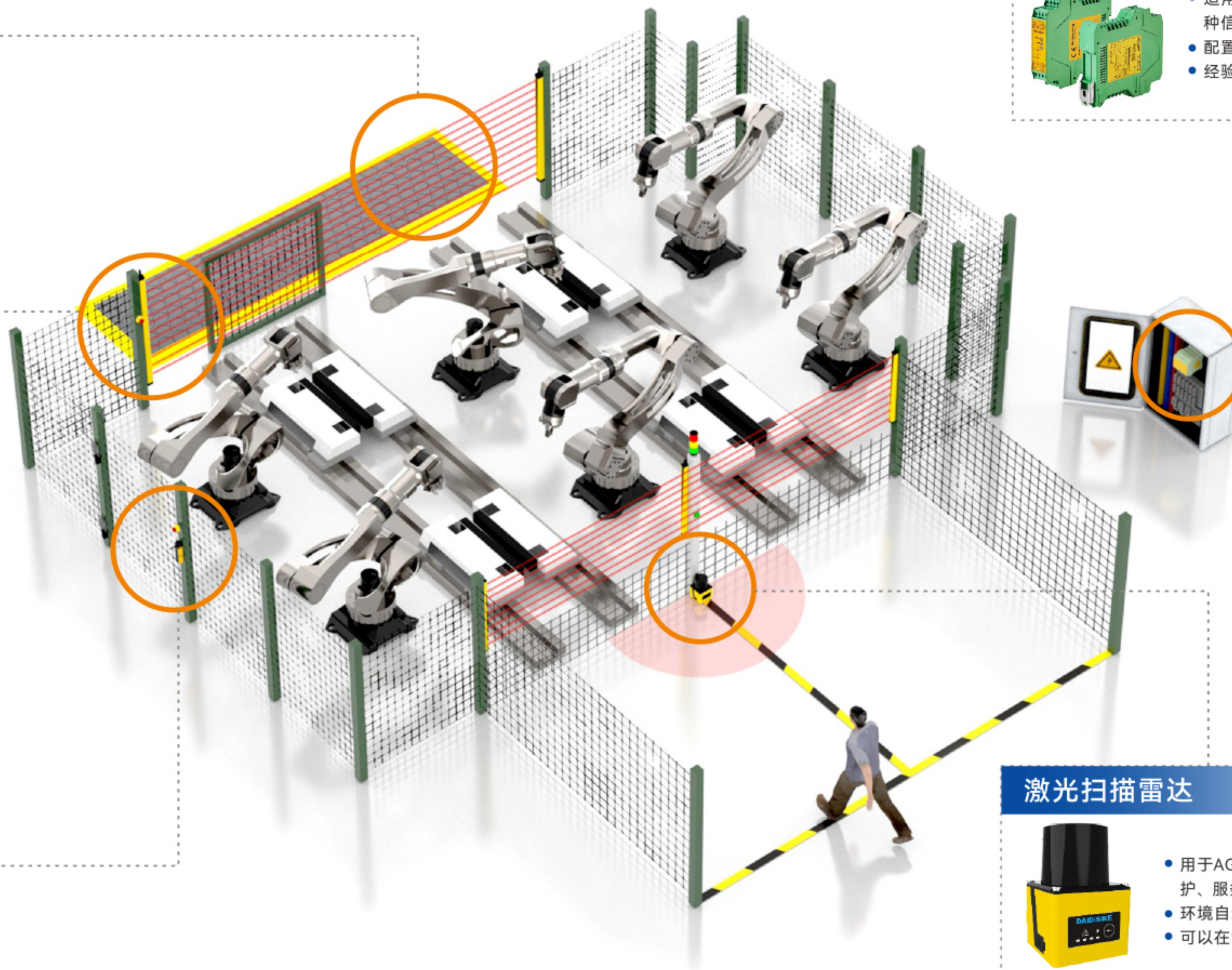


- 触点配置多样, 带锁定功能;
- 适配多种操作钥匙, 应用领域广泛;
- 开关头部可90°旋转4次;
- 安全门锁通常是成本最低的解决方案。

激光扫描雷达



- 用于AGV避障、工厂区域作业区安全防护、服务机器人自主避障等;
- 环境自动扫描, 生成区域;
- 可以在复杂环境下有效识别目标物体。



安全光幕应用案例



通用型安全光幕 Universal safety light curtain

- 超快响应速度 < 15ms
- 能有效屏蔽99%干扰信号
- 极性、短路、过载保护、自检
- 累计突破200,000+对
- Ultra-fast response speed < 15ms
- Can effectively shield 99% of interference signals
- Polarity, short circuit, overload protection, self-check
- Cumulative breakthrough 200,000+ pairs

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 more than 80% equipment such as presses, hydraulic presses, hydraulic presses, shears, automatic doors and other dangerous occasions.

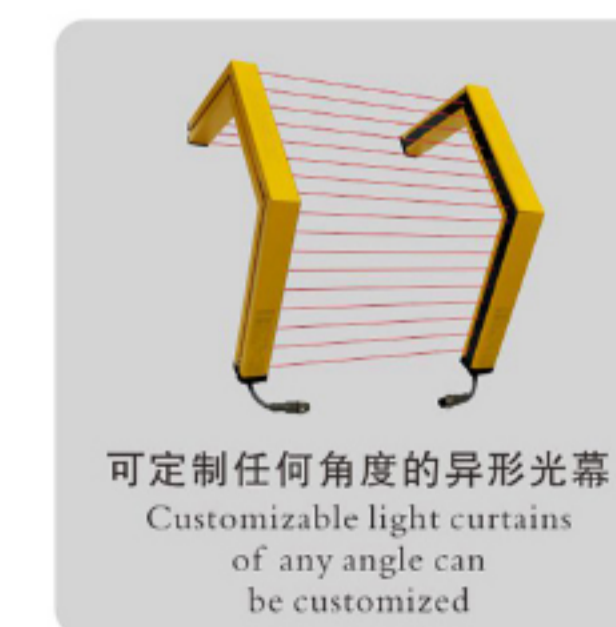


DQC系列安全光幕 DQC series safety light curtain

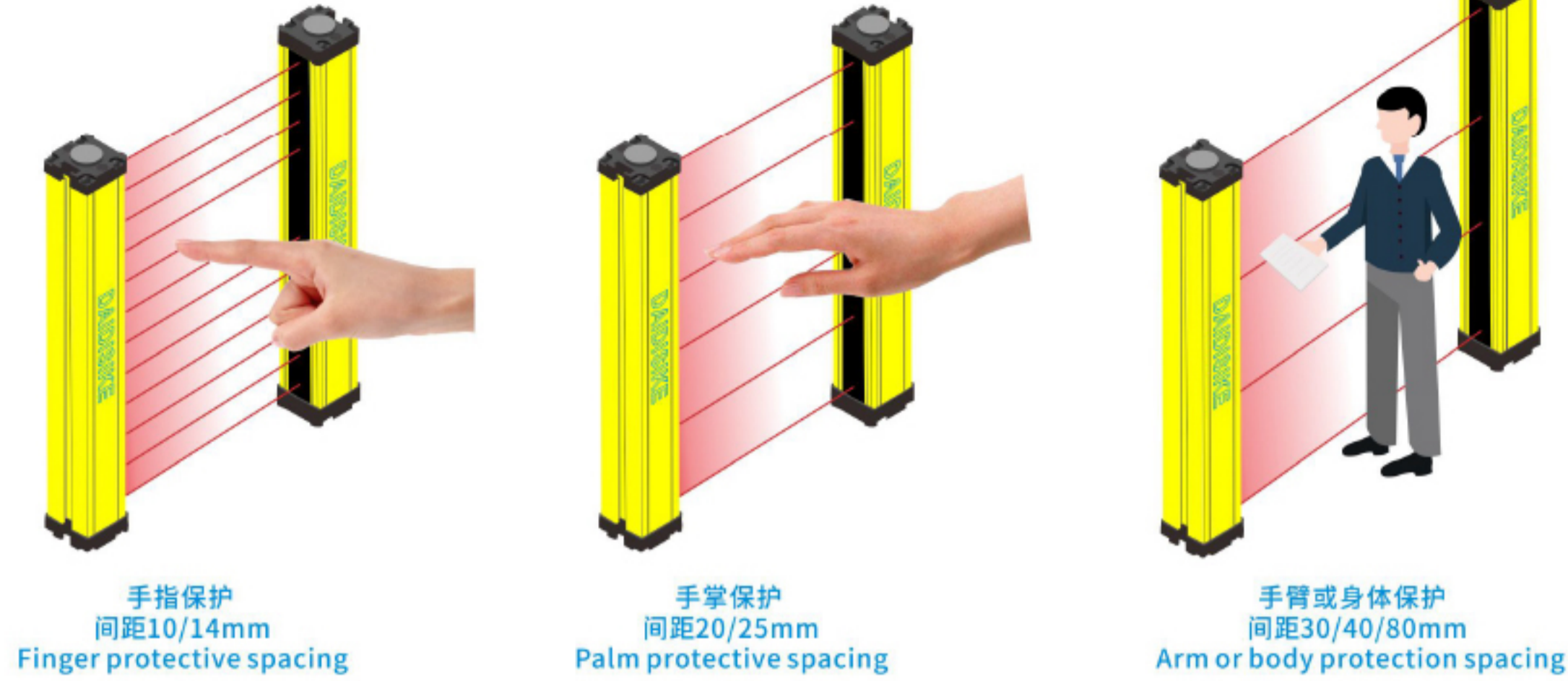
- ★ 自检功能完善：当安全传感器出现故障时，确保不向所控制的电器发送错误的信号；
- ★ 抗干扰能力强：系统对电磁信号，频闪灯光，焊接弧光及周围的光源具有良好的抗干扰能力；
- ★ 安装调试方便，配线简单，外形美观；
- ★ 采用表面贴装技术，防震性能优越；
- ★ 符合国际电工学会IEC61496-1/2标准安全等级，TUV的CE认证；
- ★ 响应时间短（≤15ms），安全可靠性能高；
- ★ 尺寸设计30mm*30mm，安全传感器可以通过航空插座与电缆线（M12）链接；
- ★ 所有电子元器件均采用全球知名品牌配件。
- ★ Perfect self-check function: When 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 30mm*30mm. 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、受光器和数据线组成。
It is composed of light emitter, light receiver and data line.



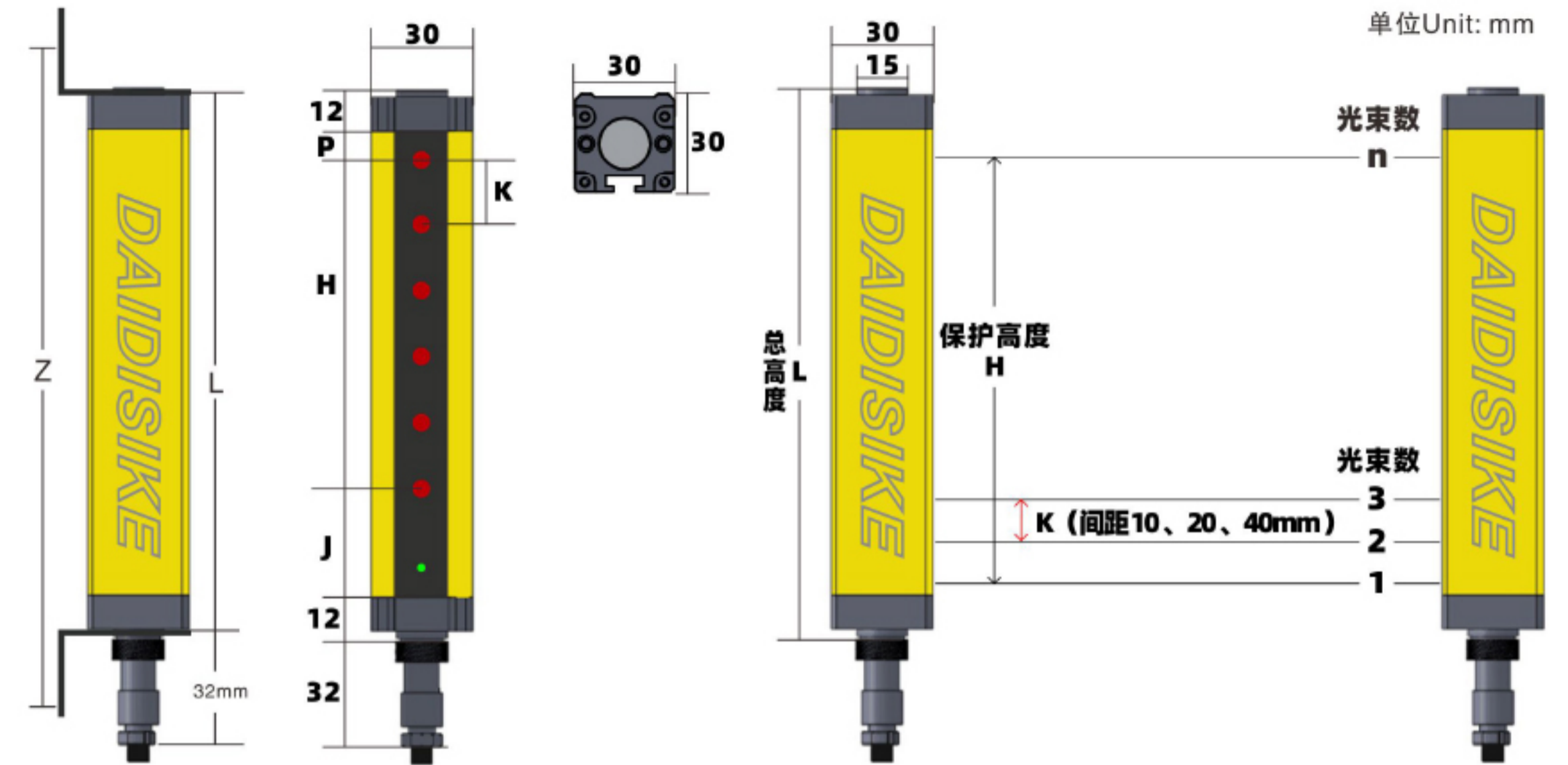
分辨率 Resolving power



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 Incidence angle ≥ 5°)						
外形尺寸 Outline size	30 x 30 x Lmm (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	DQCA DQCA2						
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 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 (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4芯, 受光器5芯 Circular aviation socket with special connecting cable, 4 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 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						

外形尺寸 Dimensions



备注:
Remarks

$H = (n-1) * K = \text{保护高度}$
Height of detection

L: 光幕总长度
Total length of light screen

n: 光轴数
Optical axis number

$Z = L + 32\text{mm} = \text{上下直角架固定方式中心距离}$
Center Distance of Fixed Mode of Upper and Lower Right Angle Frames

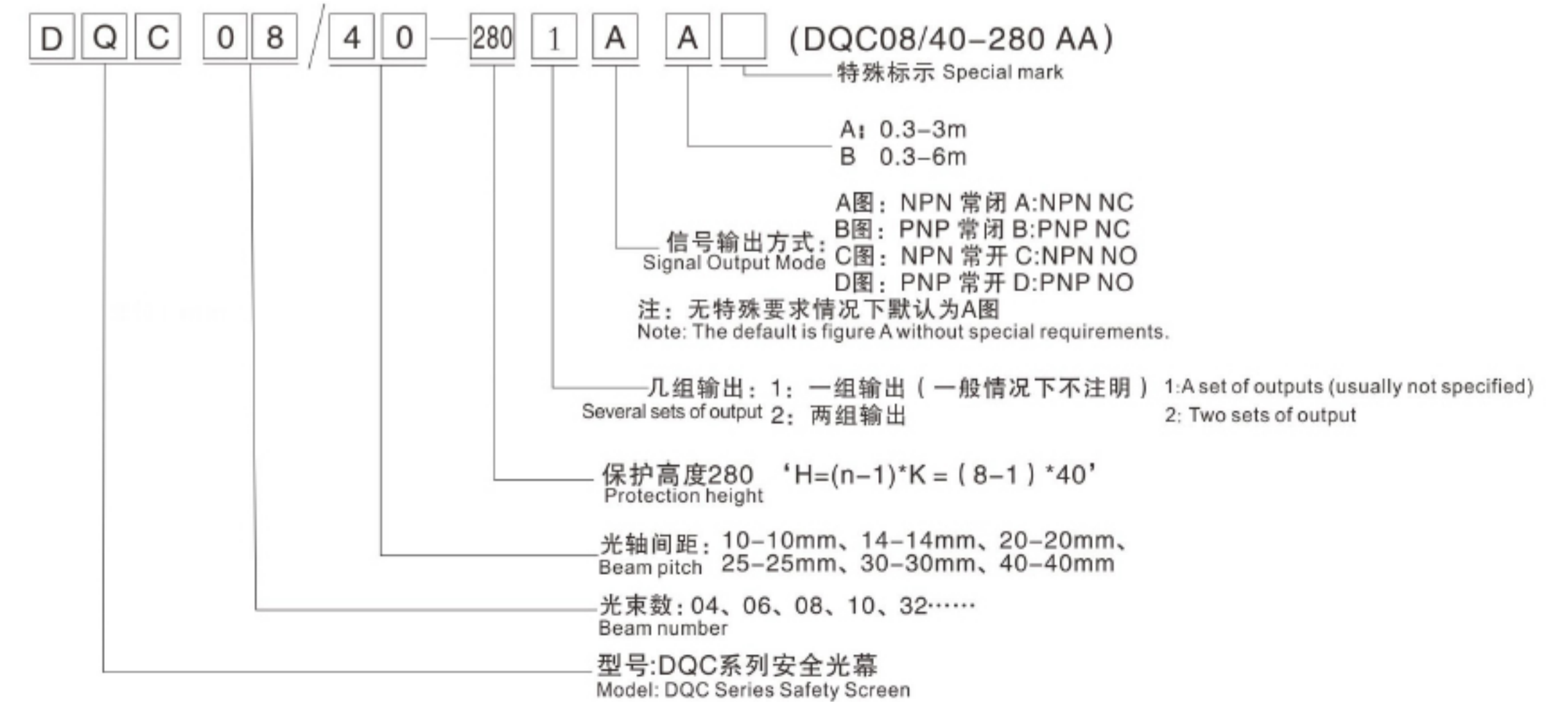
K: 光轴间距
Optical axis spacing

$L = P + H + J + 12\text{mm} + 12\text{mm}$

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

DQC型安全光幕规格表说明如下:

The specifications of DQC type safety screen are as follows

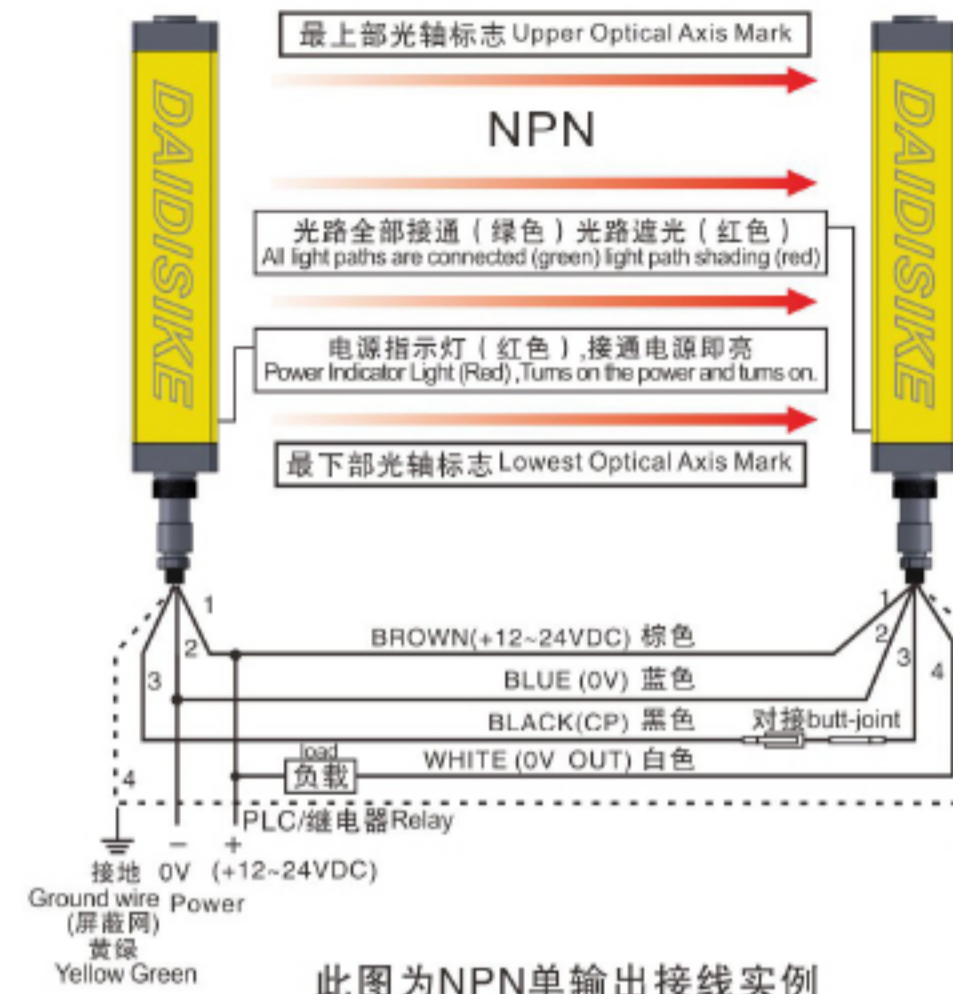


DQC规格一览表 Specification List

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	111	DQC06/10-50	A	B	C	D	0.3-3m
	8	70	131	DQC08/10-70	A	B	C	D	0.3-3m
	10	90	151	DQC10/10-90	A	B	C	D	0.3-3m
	12	110	171	DQC12/10-110	A	B	C	D	0.3-3m
	14	130	191	DQC14/10-130	A	B	C	D	0.3-3m
	16	150	211	DQC16/10-150	A	B	C	D	0.3-3m
	18	170	231	DQC18/10-170	A	B	C	D	0.3-3m
	20	190	251	DQC20/10-190	A	B	C	D	0.3-3m
	22	210	271	DQC22/10-210	A	B	C	D	0.3-3m
	24	230	291	DQC24/10-230	A	B	C	D	0.3-3m
	26	250	311	DQC26/10-250	A	B	C	D	0.3-3m
	28	270	331	DQC28/10-270	A	B	C	D	0.3-3m
14mm (K)	6	70	133	DQC06/14-70	A	B	C	D	0.3-3m
	8	98	161	DQC08/14-98	A	B	C	D	0.3-3m
	10	126	189	DQC10/14-126	A	B	C	D	0.3-3m
	12	154	217	DQC12/14-154	A	B	C	D	0.3-3m
	14	182	245	DQC14/14-182	A	B	C	D	0.3-3m
	16	210	273	DQC16/14-210	A	B	C	D	0.3-3m
	18	238	301	DQC18/14-238	A	B	C	D	0.3-3m
	20	266	329	DQC20/14-266	A	B	C	D	0.3-3m
	22	294	357	DQC22/14-294	A	B	C	D	0.3-3m
	24	322	385	DQC24/14-322	A	B	C	D	0.3-3m
	26	350	413	DQC26/14-350	A	B	C	D	0.3-3m
	28	378	441	DQC28/14-378	A	B	C	D	0.3-3m
20mm (K)	4	60	119	DQC04/20-60	A	B	C	D	0.3-3m
	6	100	159	DQC06/20-100	A	B	C	D	0.3-3m
	8	140	199	DQC08/20-140	A	B	C	D	0.3-3m
	10	180	239	DQC10/20-180	A	B	C	D	0.3-3m
	12	220	279	DQC12/20-220	A	B	C	D	0.3-3m
	14	260	319	DQC14/20-260	A	B	C	D	0.3-3m
	16	300	359	DQC16/20-300	A	B	C	D	0.3-3m
	18	340	399	DQC18/20-340	A	B	C	D	0.3-3m
	20	380	439	DQC20/20-380	A	B	C	D	0.3-3m
	22	420	479	DQC22/20-420	A	B	C	D	0.3-3m
	24	460	519	DQC24/20-460	A	B	C	D	0.3-3m
	26	500	559	DQC26/20-500	A	B	C	D	0.3-3m
25mm (K)	6	125	186.5	DQC06/25-125	A	B	C	D	0.3-3m
	8	175	236.5	DQC08/25-175	A	B	C	D	0.3-3m
	10	225	286.5	DQC10/25-225	A	B	C	D	0.3-3m
	12	275	336.5	DQC12/25-275	A	B	C	D	0.3-3m
	14	325	386.5	DQC14/25-325	A	B	C	D	0.3-3m
	16	375	436.5	DQC16/25-375	A	B	C	D	0.3-3m
	18	425	486.5	DQC18/25-425	A	B	C	D	0.3-3m
	20	475	536.5	DQC20/25-475	A	B	C	D	0.3-3m
	22	525	586.5	DQC22/25-525	A	B	C	D	0.3-3m
	24	575	636.5	DQC24/25-575	A	B	C	D	0.3-3m
	26	625	686.5	DQC26/25-625	A	B	C	D	0.3-3m
	28	675	736.5	DQC28/25-675	A	B	C	D	0.3-3m
30mm (K)	4	90	154	DQC04/30-90	A	B	C	D	0.3-3m
	6	150	214	DQC06/30-150	A	B	C	D	0.3-3m
	8	210	274	DQC08/30-210	A	B	C	D	0.3-3m
	10	270	334	DQC10/30-270	A	B	C	D	0.3-3m
	12	330	394	DQC12/30-330	A	B	C	D	0.3-3m
	14	390	454	DQC14/30-390	A	B	C	D	0.3-3m
	16	450	514	DQC16/30-450	A	B	C	D	0.3-3m
	18	510	574	DQC18/30-510	A	B	C	D	0.3-3m
	20	570	634	DQC20/30-570	A	B	C	D	0.3-3m
	22	630	694	DQC22/30-630	A	B	C	D	0.3-3m
	24	690	754	DQC24/30-690	A	B	C	D	0.3-3m
	26	750	814	DQC26/30-750	A	B	C	D	0.3-3m
40mm (K)	4	120	189	DQC04/40-120	A	B	C	D	0.3-3m
	6	200	269	DQC06/40-200	A	B	C	D	0.3-3m
	8	280	349	DQC08/40-280	A	B	C	D	0.3-3m
	10	360	429	DQC10/40-360	A	B	C	D	0.3-3m
	12	440	509	DQC12/40-440	A	B	C	D	0.3-3m
	14	520	589	DQC14/40-520	A	B	C	D	0.3-3m
	16	600	669	DQC16/40-600	A	B	C	D	0.3-3m
	18	680	749	DQC18/40-680	A	B	C	D	0.3-3m
	20	760	829	DQC20/40-760	A	B	C	D	0.3-3m
	22	840	909	DQC22/40-840	A	B	C	D	0.3-3m
	24	920	989	DQC24/40-920	A	B	C	D	0.3-3m
	80mm (K)	4	240	329	DQC04/80-240	A	B	C	D
6		400	489	DQC06/80-400	A	B	C	D	0.3-3m
8		560	649	DQC08/80-560	A	B	C	D	0.3-3m
10		720	809	DQC10/80-720	A	B	C	D	0.3-3m
12		880	969	DQC12/80-880	A	B	C	D	0.3-3m
14		1040	1129	DQC14/80-1040	A	B	C	D	0.3-3m
26		2000	2089	DQC26/80-2000	A	B	C	D	0.3-3m
28		2160	2249	DQC28/80-2160	A	B	C	D	0.3-3m
30		2320	2409	DQC30/80-2320	A	B	C	D	0.3-3m
32		2480	2569	DQC32/80-2480	A	B	C	D	0.3-3m

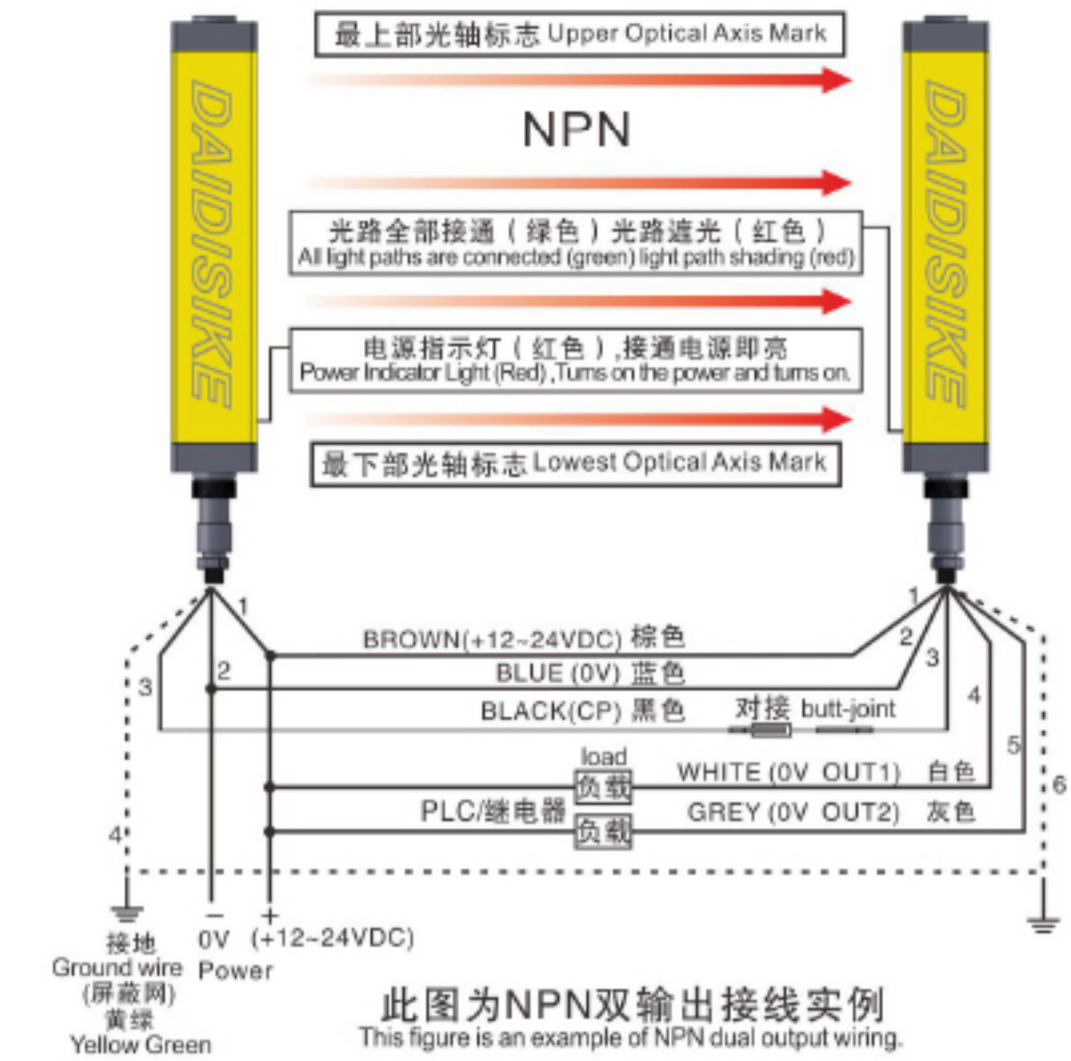
备注：输出方式详见上一页面规格说明，如无要求默认为A图。特殊规格可另外订做，检测距离达3-6米需提前说明。
Note: The output mode is detailed in the specifications on the previous page. If there is no requirement, the default is figure A. special specifications can be customized separately, and the detection distance up to 3-6M needs to be specified in advance.

DQC 四、五芯系列接线图 4,5 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

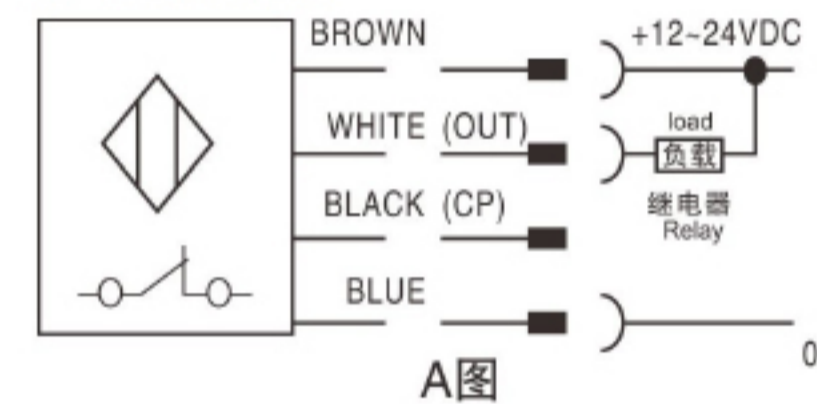
DQC NPN双输出四芯、六芯接线图 DQC NPN dual output four core, six core wiring diagram



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

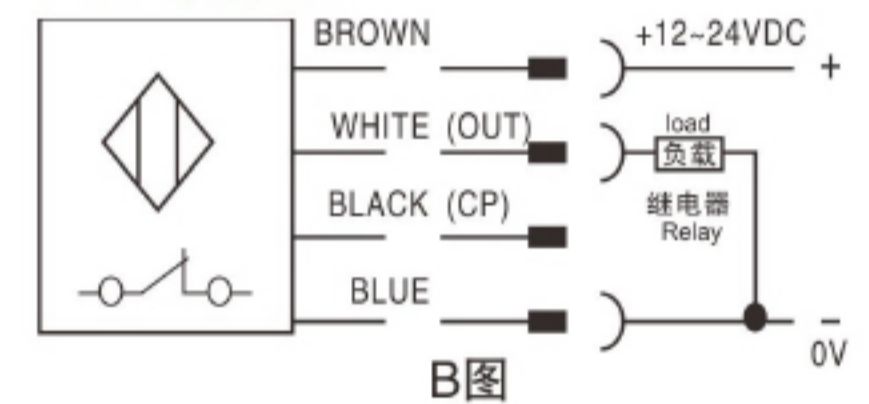
DQC信号输出选择 (晶体管正常工作的实际输出) DQC signal output selection (actual output of transistor working normally)

NPN 常闭 NC



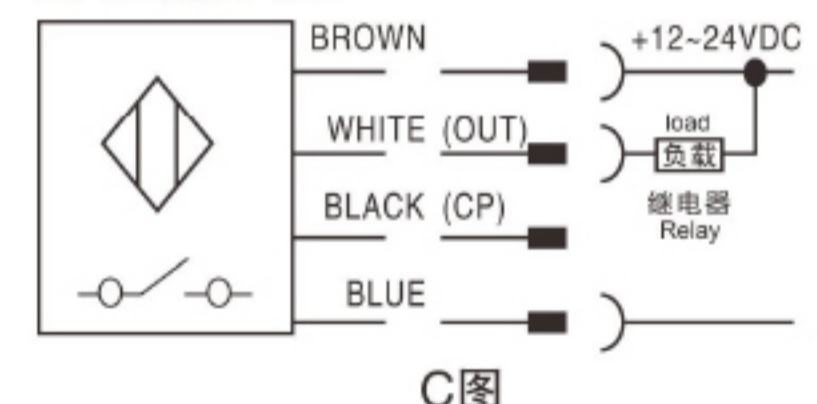
A图

PNP 常闭 NC



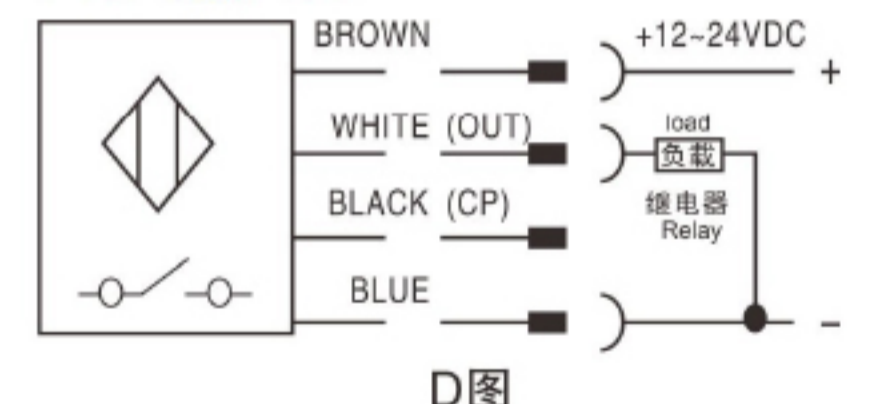
B图

NPN 常开 NO



C图

PNP 常开 NO



D图

光幕内置控制器DQCA接线图 DQCA wiring diagram of built-in controller of light curtain



光幕内置双面控制器DQCA2接线图 DQCA2 wiring diagram of built-in double-sided controller of light curtain





超远距离对射光幕

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.

超长感应距离: 10M、20M、30M、40M、50M



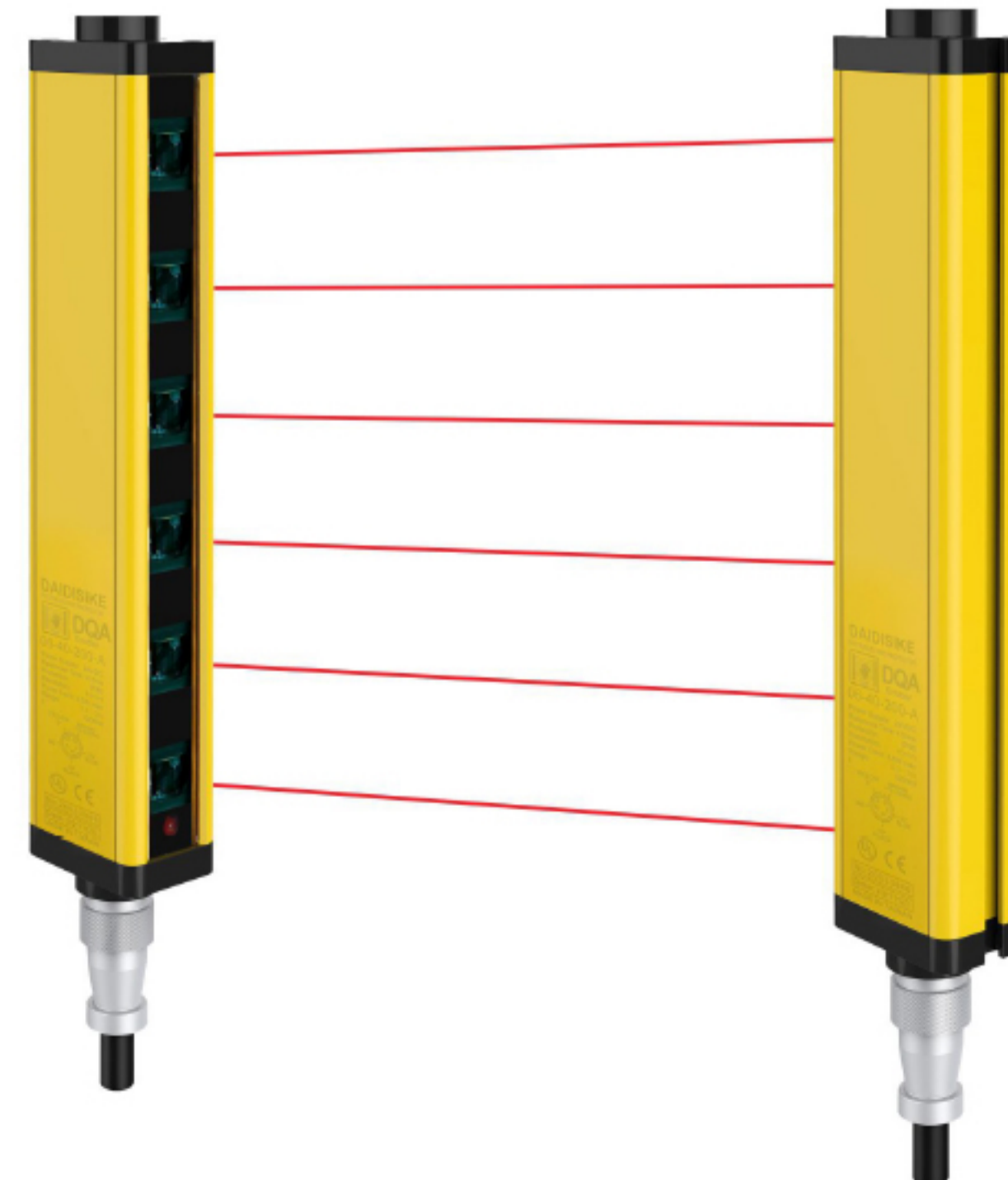
产品特点 Product characteristics

- ★ 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 ($\leq 15\text{ms}$), 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 ($\leq 15\text{ms}$), 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)

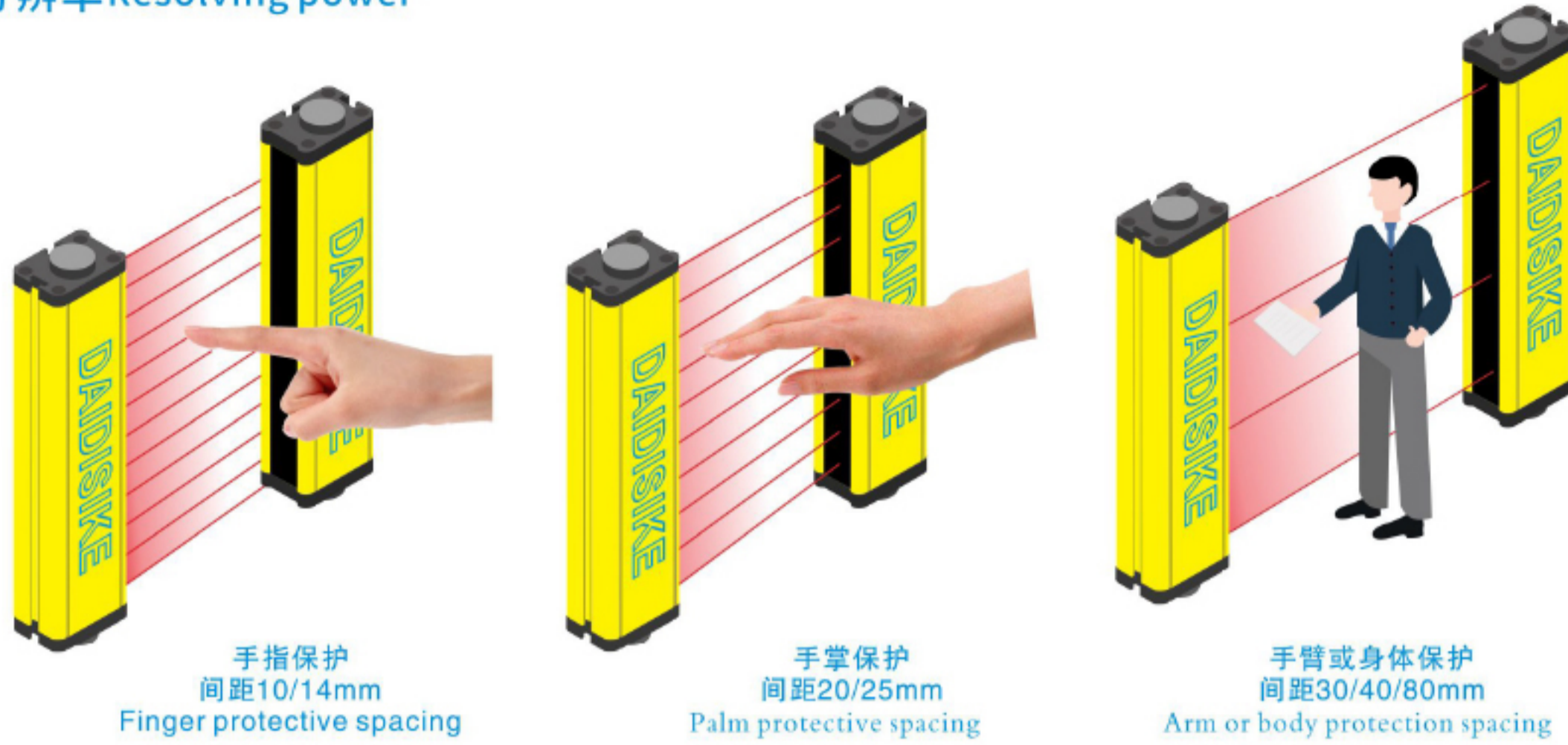


安全光幕控制器DQCA(选购件)
Safety light curtain controller DQCA (optional)



安全光幕双面控制器DQCA2(选购件)
Safety light curtain double-sided controller DQCA2
(optional)

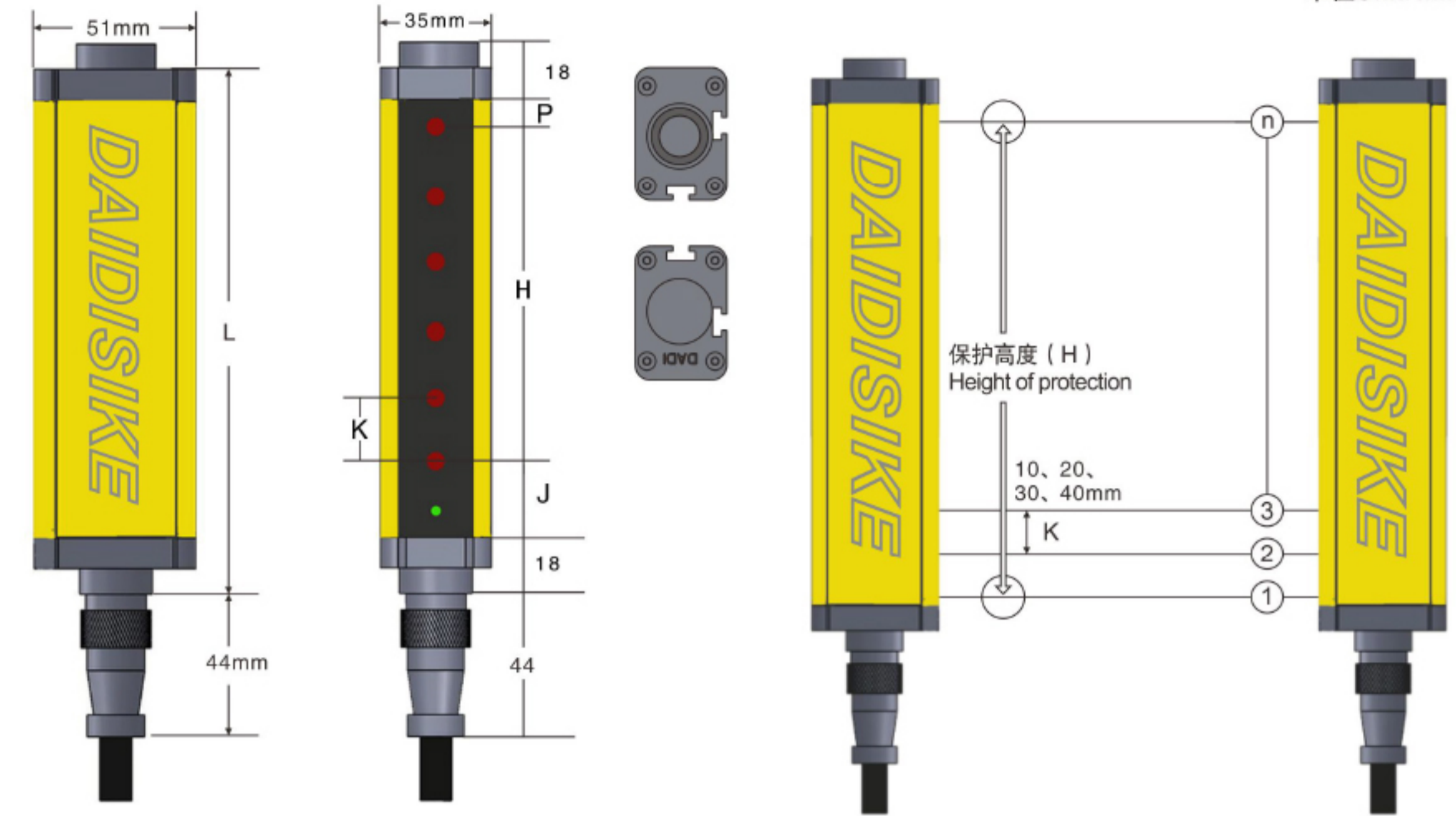
◆ 分辨率 Resolving power



◆ 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	200mm
检测精度 Check the accuracy	18mm	22mm	28mm	33mm	38mm	48mm	88mm	188mm
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	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 Incidence 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	DOCA DOCA2							
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 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 (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5芯, 受光器5芯 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 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							

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

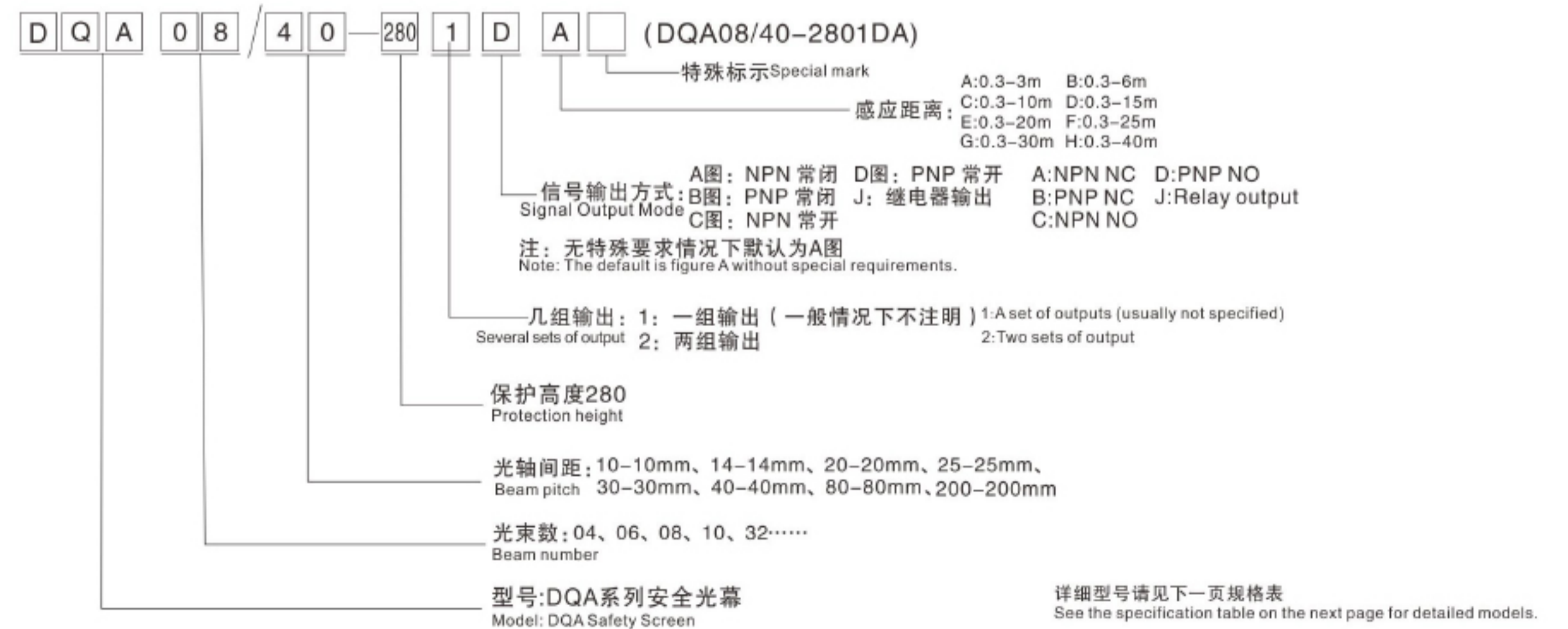
K: 光轴间距
Optical axis spacing

L = P + H + J + 18mm + 18mm

K (mm)	10	14	20	25	30	40	80	200
P (mm)	5	7	10	12.5	15	20	40	20
J (mm)	32	32	25	25	25	25	25	25

DQA型安全光幕规格表说明如下:

The specifications of QA type safety screen are as follows



DQA规格一览表 Specification List

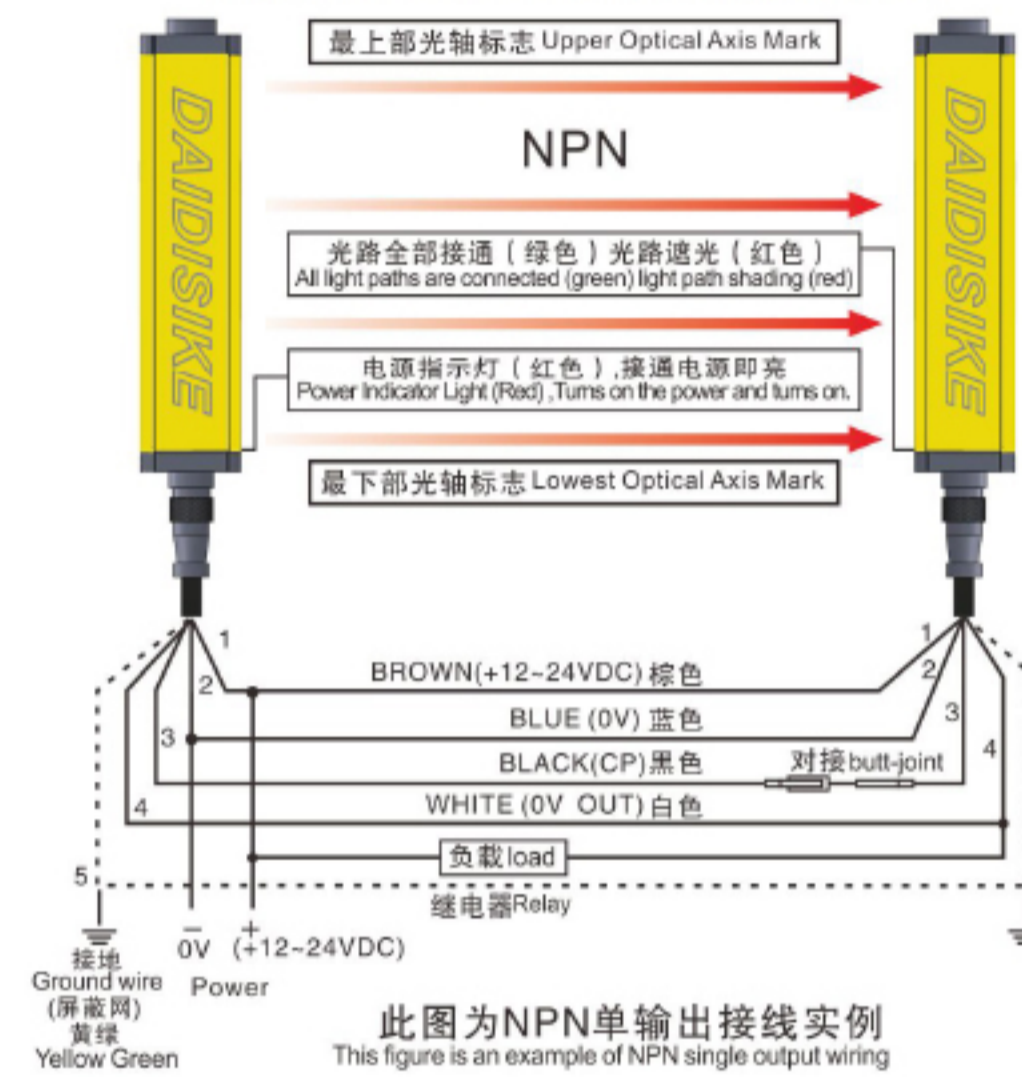
光轴间距 Beam pitch	光束数 Light beam	保护高度mm(H) Protection height	光幕高度mm(l) Screen height	产品型号 Product model	信号输出方式 Signal output mode				检测距离 Detection distance
					NPN	PNP	NPN	PNP	
10mm (K)	6	50	123	DQA06/10-50	A	B	C	D	0.3-3m
	7	70	143	DQA08/10-70	A	B	C	D	0.3-3m
	8	90	163	DQA10/10-90	A	B	C	D	0.3-3m
	10	110	183	DQA12/10-110	A	B	C	D	0.3-3m
	12	130	203	DQA14/10-130	A	B	C	D	0.3-3m
	14	150	223	DQA16/10-150	A	B	C	D	0.3-3m
	16	170	243	DQA18/10-170	A	B	C	D	0.3-3m
	18	190	263	DQA20/10-190	A	B	C	D	0.3-3m
	20	210	283	DQA22/10-210	A	B	C	D	0.3-3m
	22	230	303	DQA24/10-230	A	B	C	D	0.3-3m
	24	250	323	DQA26/10-250	A	B	C	D	0.3-3m
	26	270	343	DQA28/10-270	A	B	C	D	0.3-3m
	28	290	363	DQA30/10-290	A	B	C	D	0.3-3m
	30	310	383	DQA32/10-310	A	B	C	D	0.3-3m
14mm (K)	6	70	145	DQA06/14-70	A	B	C	D	0.3-3m
	8	98	173	DQA08/14-98	A	B	C	D	0.3-3m
	10	126	201	DQA10/14-126	A	B	C	D	0.3-3m
	12	154	229	DQA12/14-154	A	B	C	D	0.3-3m
	14	182	257	DQA14/14-182	A	B	C	D	0.3-3m
	16	210	285	DQA16/14-210	A	B	C	D	0.3-3m
	18	238	313	DQA18/14-238	A	B	C	D	0.3-3m
	20	266	341	DQA20/14-266	A	B	C	D	0.3-3m
	22	294	369	DQA22/14-294	A	B	C	D	0.3-3m
	24	322	397	DQA24/14-322	A	B	C	D	0.3-3m
	26	350	425	DQA26/14-350	A	B	C	D	0.3-3m
	28	378	453	DQA28/14-378	A	B	C	D	0.3-3m
	30	406	481	DQA30/14-406	A	B	C	D	0.3-3m
	32	434	509	DQA32/14-434	A	B	C	D	0.3-3m
20mm (K)	4	60	131	DQA04/20-60	A	B	C	D	0.3-3m
	6	100	171	DQA06/20-100	A	B	C	D	0.3-3m
	8	140	211	DQA08/20-140	A	B	C	D	0.3-3m
	10	180	251	DQA10/20-180	A	B	C	D	0.3-3m
	12	220	291	DQA12/20-220	A	B	C	D	0.3-3m
	14	260	331	DQA14/20-260	A	B	C	D	0.3-3m
	16	300	371	DQA16/20-300	A	B	C	D	0.3-3m
	18	340	411	DQA18/20-340	A	B	C	D	0.3-3m
	20	380	451	DQA20/20-380	A	B	C	D	0.3-3m
	22	420	491	DQA22/20-420	A	B	C	D	0.3-3m
	24	460	531	DQA24/20-460	A	B	C	D	0.3-3m
	26	500	571	DQA26/20-500	A	B	C	D	0.3-3m
	28	540	611	DQA28/20-540	A	B	C	D	0.3-3m
	30	580	651	DQA30/20-580	A	B	C	D	0.3-3m
25mm (K)	6	125	198.5	DQA06/25-125	A	B	C	D	0.3-3m
	8	175	248.5	DQA08/25-175	A	B	C	D	0.3-3m
	10	225	298.5	DQA10/25-225	A	B	C	D	0.3-3m
	12	275	348.5	DQA12/25-275	A	B	C	D	0.3-3m
	14	325	398.5	DQA14/25-325	A	B	C	D	0.3-3m
	16	375	448.5	DQA16/25-375	A	B	C	D	0.3-3m
	18	425	498.5	DQA18/25-425	A	B	C	D	0.3-3m
	20	475	548.5	DQA20/25-475	A	B	C	D	0.3-3m
	22	525	598.5	DQA22/25-525	A	B	C	D	0.3-3m
	24	575	648.5	DQA24/25-575	A	B	C	D	0.3-3m
	26	625	698.5	DQA26/25-625	A	B	C	D	0.3-3m
	28	675	748.5	DQA28/25-675	A	B	C	D	0.3-3m
	30	725	798.5	DQA30/25-725	A	B	C	D	0.3-3m
	32	775	848.5	DQA32/25-775	A	B	C	D	0.3-3m
30mm (K)	4	90	166	DQA04/30-90	A	B	C	D	0.3-3m
	6	150	226	DQA06/30-150	A	B	C	D	0.3-3m
	8	210	286	DQA08/30-210	A	B	C	D	0.3-3m
	10	270	346	DQA10/30-270	A	B	C	D	0.3-3m
	12	330	406	DQA12/30-330	A	B	C	D	0.3-3m
	14	390	466	DQA14/30-390	A	B	C	D	0.3-3m
	16	450	526	DQA16/30-450	A	B	C	D	0.3-3m
	18	510	586	DQA18/30-510	A	B	C	D	0.3-3m
	20	570	646	DQA20/30-570	A	B	C	D	0.3-3m
	22	630	706	DQA22/30-630	A	B	C	D	0.3-3m
	24	690	766	DQA24/30-690	A	B	C	D	0.3-3m
	26	750	826	DQA26/30-750	A	B	C	D	0.3-3m
	28	810	886	DQA28/30-810	A	B	C	D	0.3-3m
	30	870	946	DQA30/30-870	A	B	C	D	0.3-3m
40mm (K)	4	120	201	DQA04/40-120	A	B	C	D	0.3-3m
	6	200	281	DQA06/40-200	A	B	C	D	0.3-3m
	8	280	361	DQA08/40-280	A	B	C	D	0.3-3m
	10	360	441	DQA10/40-360	A	B	C	D	0.3-3m
	12	440	521	DQA12/40-440	A	B	C	D	0.3-3m
	14	520	601	DQA14/40-520	A	B	C	D	0.3-3m
	16	600	681	DQA16/40-600	A	B	C	D	0.3-3m
	18	680	761	DQA18/40-680	A	B	C	D	0.3-3m
	20	760	841	DQA20/40-760	A	B	C	D	0.3-3m
	22	840	921	DQA22/40-840	A	B	C	D	0.3-3m
	24	920	1001	DQA24/40-920	A	B	C	D	0.3-3m
	26	1000	1081	DQA26/40-1000	A	B	C	D	0.3-3m
	28	1080	1161	DQA28/40-1080	A	B	C	D	0.3-3m
	30	1160	1241	DQA30/40-1160	A	B	C	D	0.3-3m
80mm (K)	4	340	1321	DQA04/80-340	A	B	C	D	0.3-3m
	6	400	501	DQA06/80-400	A	B	C	D	0.3-3m
	8	560	661	DQA08/80-560	A	B	C	D	0.3-3m
	10	720	821	DQA10/80-720	A	B	C	D	0.3-3m
	12	880	981	DQA12/80-880	A	B	C	D	0.3-3m
	14	1040	1141	DQA14/80-1040	A	B	C	D	0.3-3m
	26	2000	2101	DQA26/80-2000	A	B	C	D	0.3-3m
	28	2160	2261	DQA28/80-2160	A	B	C	D	0.3-3m
	30	2320	2421	DQA30/80-2320	A	B	C	D	0.3-3m
	32	2480	2581	DQA32/80-2480	A	B	C	D	0.3-3m

备注：输出方式详见上一规格说明，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.

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	
200mm (K)	4	600	681	DQA04/200-600	A	B	C	D	0.3-3m
	6	1000	1081	DQA06/200-1000	A	B	C	D	0.3-3m
	8	1400	1481	DQA08/200-1400	A	B	C	D	0.3-3m
	10	1800	1881	DQA10/200-1800	A	B	C	D	0.3-3m
	12	2200	2281	DQA12/200-2200	A	B	C	D	0.3-3m
	14	2600	2681	DQA14/200-2600	A	B	C	D	0.3-3m
	16	3000	3081	DQA16/200-3000	A	B	C	D	0.3-3m
	18	3400	3481	DQA18/200-3400	A	B	C	D	0.3-3m

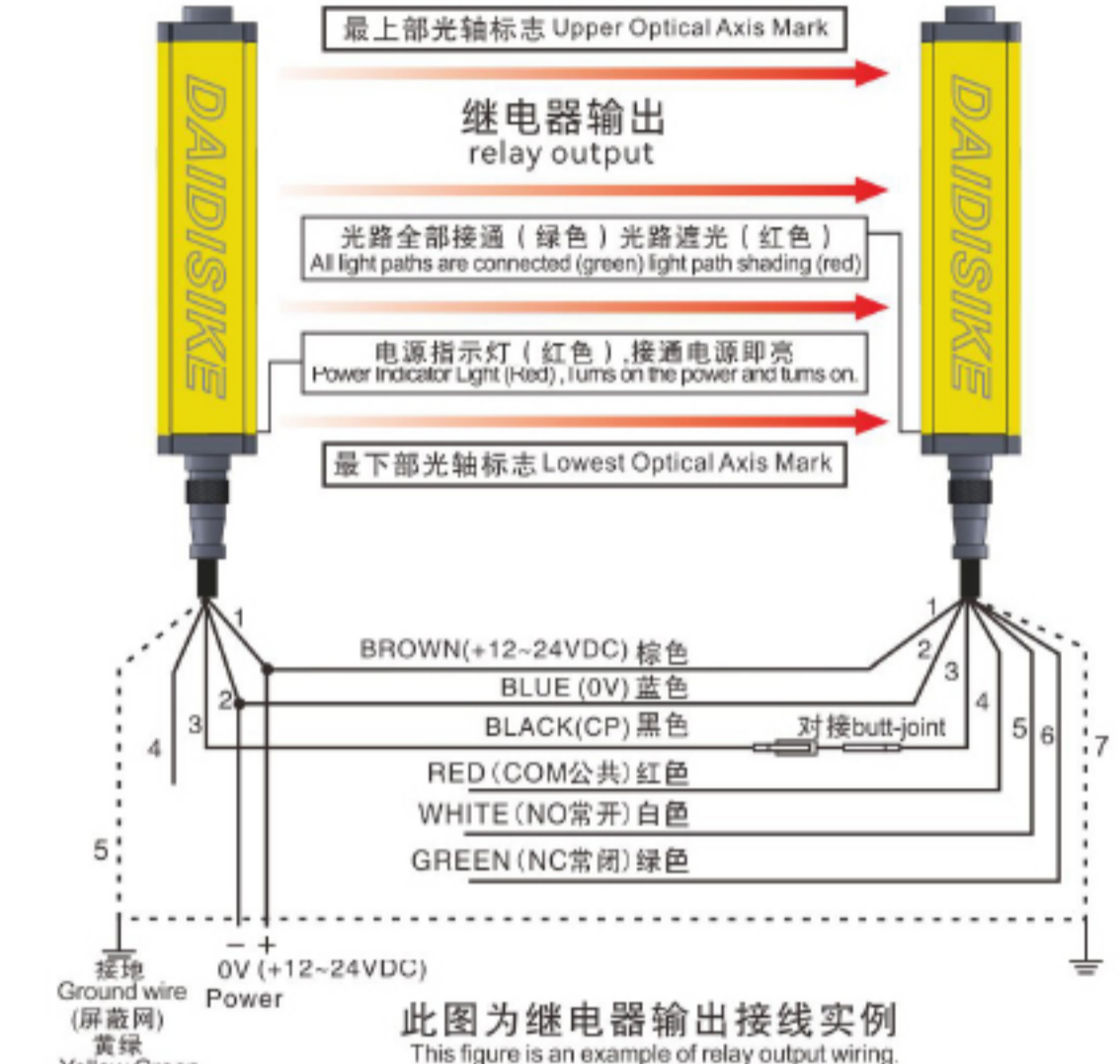
◆ DQA五芯系列接线图

DQA five-core series wiring diagram



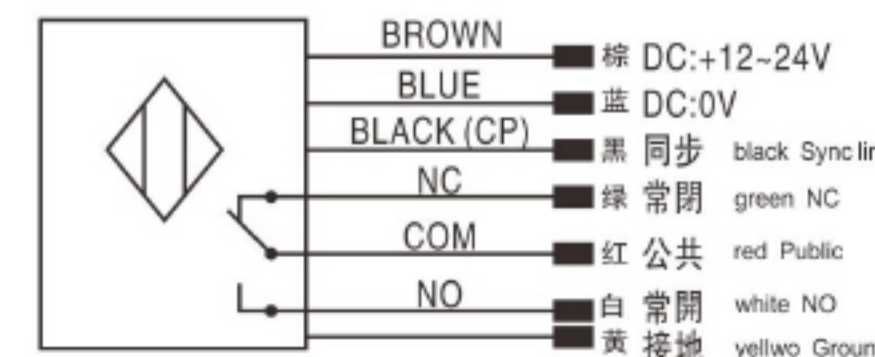
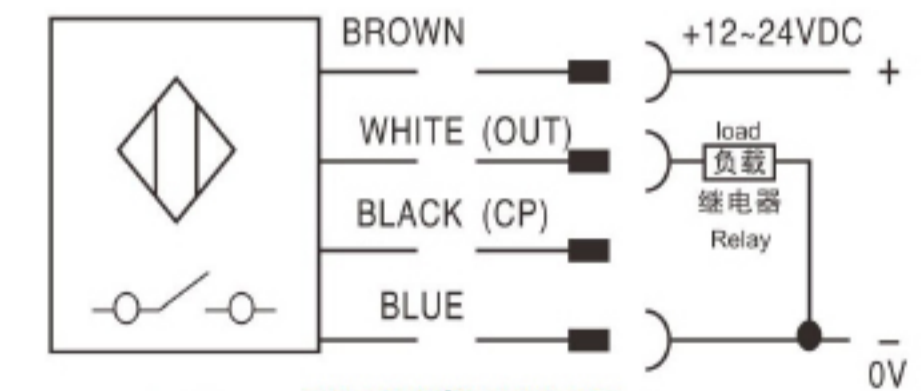
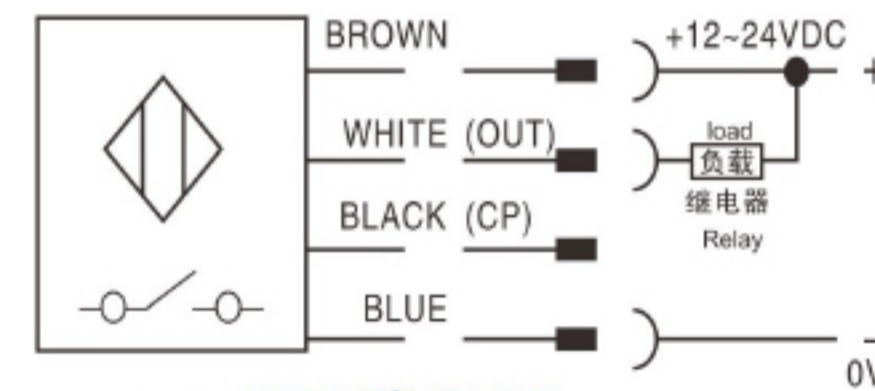
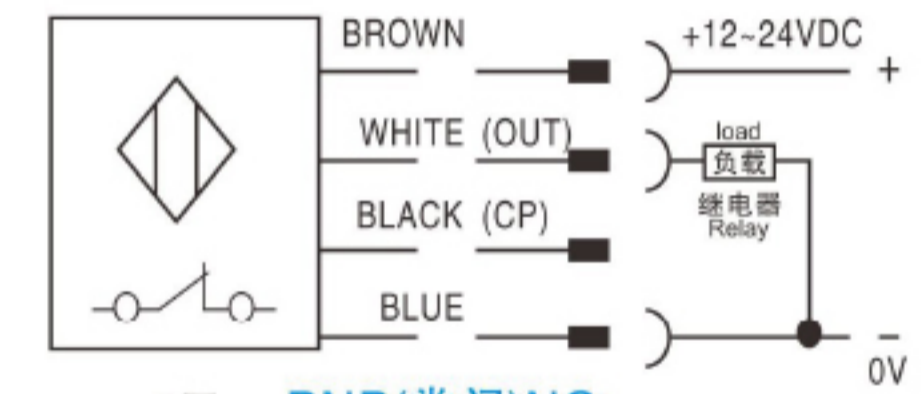
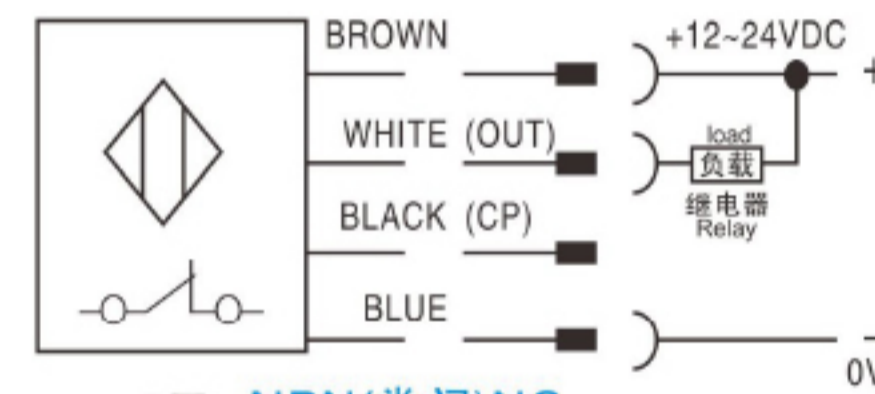
◆ DQA继电器接线图

DQA relay wiring diagram



◆ DQA信号输出选择 (晶体管正常工作的实际输出)

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



DQA内部继电器无源输出

注：同步线CP：发射、接收短接 触点容量：AC: 250V 10A
Note: Synchronization line CP: Short connection between transmitter and receiver contact rating DC: 30V 16A

注：光幕透光时：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) and the disconnection between red and white (NO) and the connection between red and white (NO) are connected.