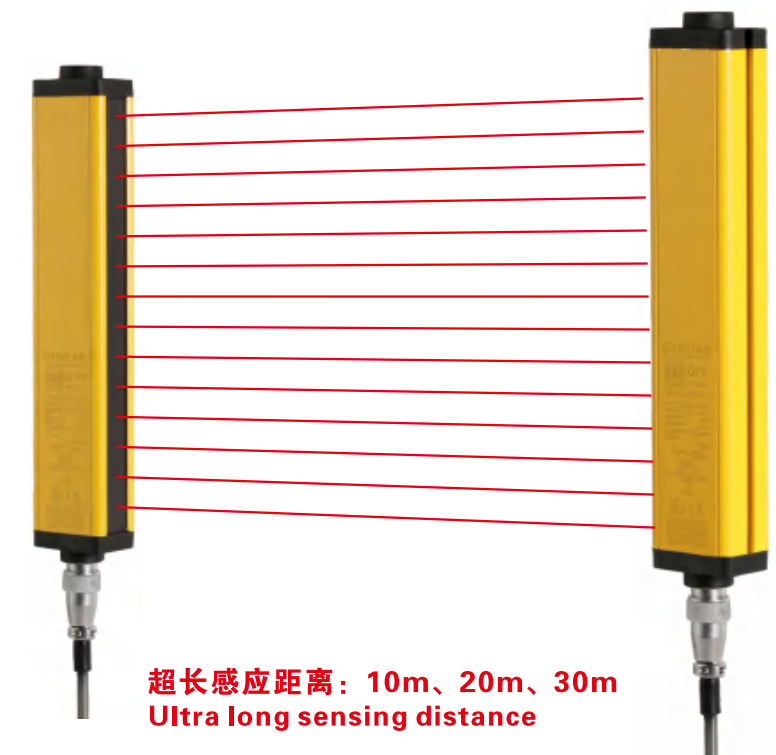
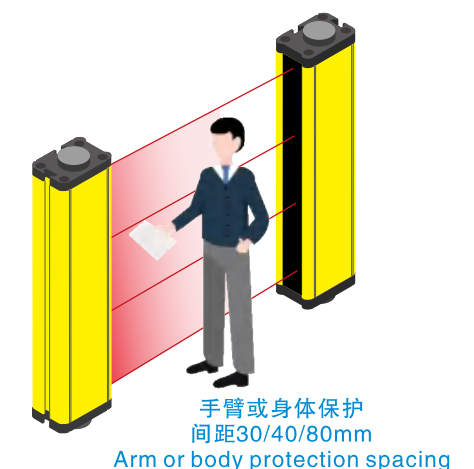
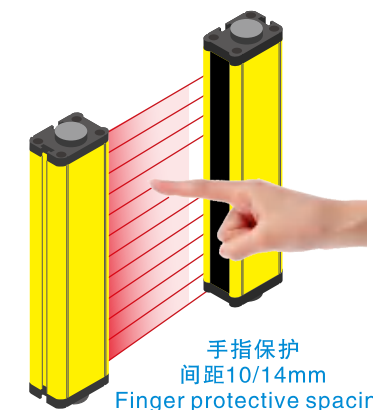


QX specification selection table

QX 安全光幕 QX Safety Light Curtain



◆ 分辨率 Resolving power



◆ 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.

◆ 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;

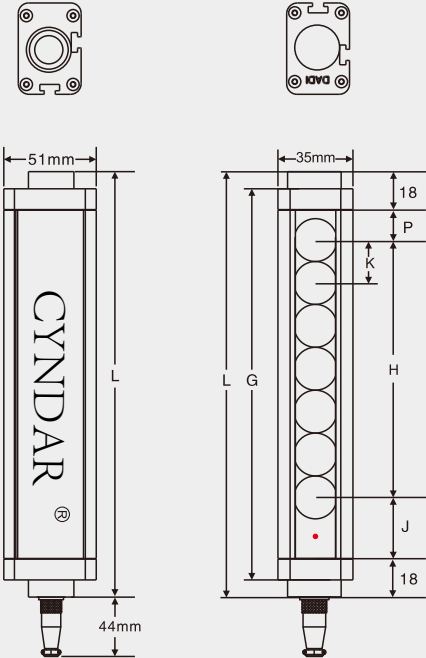
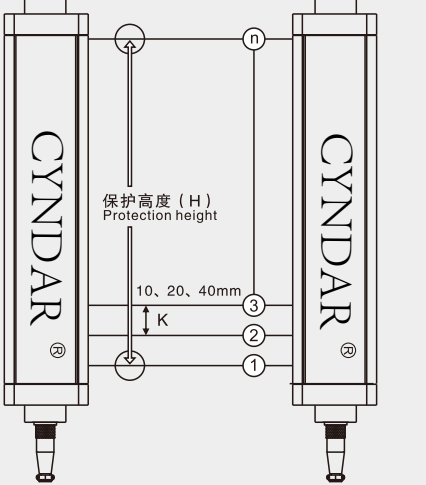
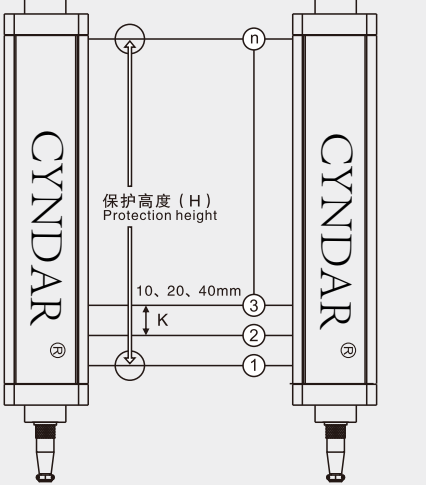
- ★ 响应时间短（ ≤15ms ）,安全可靠性能高；
- ★ 尺寸设计35mm*51mm,安全传感器可以通过航空插座与电缆线(M12)链接；
- ★ 所有电子元器件均采用全球知名品牌配件。
- ★ 本系列保护高度可达2840mm，光束72。

- ★ 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.
- ★ The protection height of this series can reach 2840 mm and the beam is 72.

◆ 产品技术参数Technical parameters of products

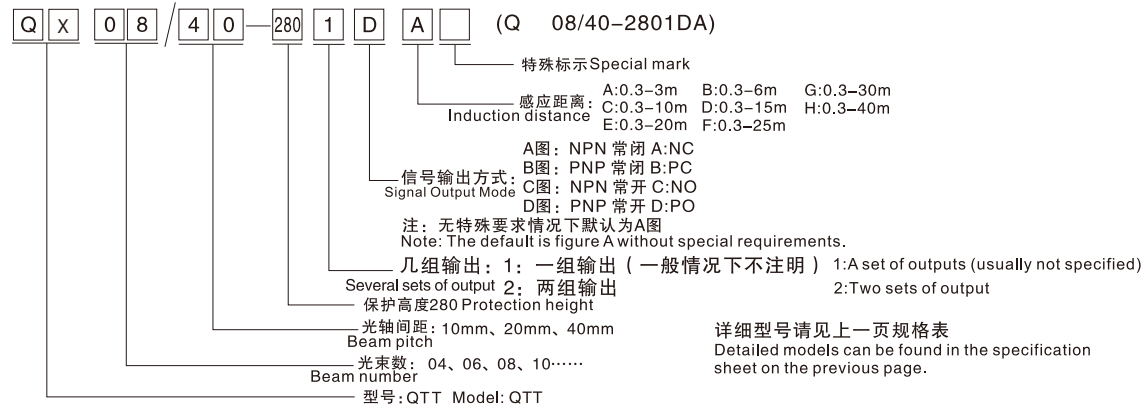
光幕形式 Light curtain form	对射式Counter shooting		
光轴间距 Beam pitch	10mm	20mm	40mm
检测精度 Check the accuracy	18mm	28mm	48mm
光束数 Beam number	12、14、16...70	4、6、8、10...72	4、6、8、10...72
保护高度 Height of protection	光轴间距Beam pitch X (光束数Beam number–1)		
检测距离 Detection distance	0.3~3m、0.3~6m、0.3~10m、0.3~15、0.3–20m、0.3–30m		
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	QCA QCA2		
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 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	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		

QX 规格一览表 Specification List

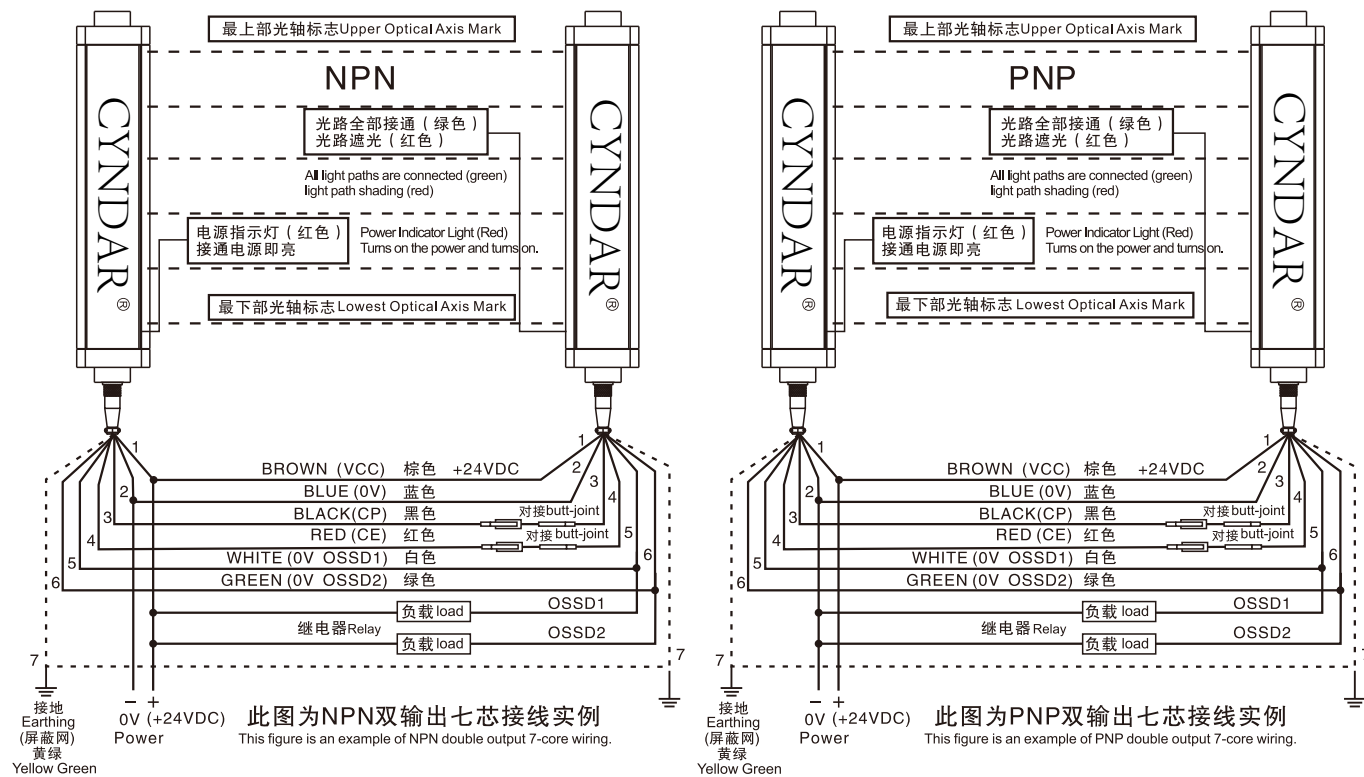
形状 Shape	光轴间距 Beam pitch	光束 Light beam	有效保护高度 Effective protection height	光幕高度 mm(L)	产品型号 Product model	信号输出方式 Signal Output Mode				检测距离 Detection distance
						NPN	PNP	NPN	PNP	
	10 mm (k)	12	110	183	QX12/10–110	A	B	C	D	0.3–3m
		14	130	203	QX14/10–130	A	B	C	D	0.3–3m
		16	150	223	QX16/10–150	A	B	C	D	0.3–3m
		18	170	243	QX18/10–170	A	B	C	D	0.3–3m
		20	190	263	QX20/10–190	A	B	C	D	0.3–3m
		22	210	283	QX22/10–210	A	B	C	D	0.3–3m
		24	230	303	QX24/10–230	A	B	C	D	0.3–3m
		26	250	323	QX26/10–250	A	B	C	D	0.3–3m
		28	270	343	QX28/10–270	A	B	C	D	0.3–3m
		30	290	363	QX30/10–290	A	B	C	D	0.3–3m
		32	310	383	QX32/10–310	A	B	C	D	0.3–3m
		34	330	403	QX34/10–330	A	B	C	D	0.3–3m
		36	350	423	QX36/10–350	A	B	C	D	0.3–3m
		38	370	443	QX38/10–370	A	B	C	D	0.3–3m
		40	390	463	QX40/10–390	A	B	C	D	0.3–3m
		42	410	483	QX42/10–410	A	B	C	D	0.3–3m
		44	430	503	QX44/10–430	A	B	C	D	0.3–3m
		46	450	523	QX46/10–450	A	B	C	D	0.3–3m
		48	470	543	QX48/10–470	A	B	C	D	0.3–3m
		50	490	563	QX50/10–490	A	B	C	D	0.3–3m
		52	510	583	QX52/10–510	A	B	C	D	0.3–3m
		54	530	603	QX54/10–530	A	B	C	D	0.3–3m
		56	550	623	QX56/10–550	A	B	C	D	0.3–3m
		58	570	643	QX58/10–570	A	B	C	D	0.3–3m
		60	590	663	QX60/10–590	A	B	C	D	0.3–3m
		62	610	683	QX62/10–610	A	B	C	D	0.3–3m
		64	630	703	QX64/10–630	A	B	C	D	0.3–3m
		66	650	723	QX66/10–650	A	B	C	D	0.3–3m
		68	670	743	QX68/10–670	A	B	C	D	0.3–3m
		70	690	763	QX70/10–690	A	B	C	D	0.3–3m
		6	100	171	QX06/20–100	A	B	C	D	0.3–3m
		8	140	211	QX08/20–140	A	B	C	D	0.3–3m
		10	180	251	QX10/20–180	A	B	C	D	0.3–3m
		12	220	291	QX12/20–220	A	B	C	D	0.3–3m
		14	260	331	QX14/20–260	A	B	C	D	0.3–3m
		16	300	371	QX16/20–300	A	B	C	D	0.3–3m
		18	340	411	QX18/20–340	A	B	C	D	0.3–3m
		20	380	451	QX20/20–380	A	B	C	D	0.3–3m
		22	420	491	QX22/20–420	A	B	C	D	0.3–3m
		24	460	531	QX24/20–460	A	B	C	D	0.3–3m
		26	500	571	QX26/20–500	A	B	C	D	0.3–3m
		28	540	611	QX28/20–540	A	B	C	D	0.3–3m
		30	580	651	QX30/20–580	A	B	C	D	0.3–3m
		32	620	691	QX32/20–620	A	B	C	D	0.3–3m
		34	660	731	QX34/20–660	A	B	C	D	0.3–3m
	20 mm (k)	36	700	771	QX36/20–700	A	B	C	D	0.3–3m
		38	740	811	QX38/20–740	A	B	C	D	0.3–3m
		40	780	851	QX40/20–780	A	B	C	D	0.3–3m
		42	820	891	QX42/20–820	A	B	C	D	0.3–3m
		44	860	931	QX44/20–860	A	B	C	D	0.3–3m
		46	900	971	QX46/20–900	A	B	C	D	0.3–3m
		48	940	1011	QX48/20–940	A	B	C	D	0.3–3m
		50	980	1051	QX50/20–980	A	B	C	D	0.3–3m
		52	1020	1091	QX52/20–1020	A	B	C	D	0.3–3m
		54	1060	1131	QX54/20–1060	A	B	C	D	0.3–3m
		56	1100	1171	QX56/20–1100	A	B	C	D	0.3–3m
		58	1140	1211	QX58/20–1140	A	B	C	D	0.3–3m
		60	1180	1251	QX60/20–1180	A	B	C	D	0.3–3m
		62	1220	1291	QX62/20–1220	A	B	C	D	0.3–3m
		64	1260	1331	QX64/20–1260	A	B	C	D	0.3–3m
		66	1300	1371	QX66/20–1300	A	B	C	D	0.3–3m
		68	1340	1411	QX68/20–1340	A	B	C	D	0.3–3m
		70	1380	1451	QX70/20–1380	A	B	C	D	0.3–3m
		72	1420	1491	QX72/20–1420	A	B	C	D	0.3–3m
		4	120	201	QX04/40–120	A	B	C	D	0.3–3m
		6	200	281	QX06/40–200	A	B	C	D	0.3–3m
		8	280	361	QX08/40–280	A	B	C	D	0.3–3m
		10	360	441	QX10/40–360	A	B	C	D	0.3–3m
		12	440	521	QX12/40–440	A	B	C	D	0.3–3m
		14	520	601	QX14/40–520	A	B	C	D	0.3–3m
		16	600	681	QX16/40–600	A	B	C	D	0.3–3m
		18	680	761	QX18/40–680	A	B	C	D	0.3–3m
		20	760	841	QX20/40–760	A	B	C	D	0.3–3m
		22	840	921	QX22/40–840	A	B	C	D	0.3–3m
		24	920	1001	QX24/40–920	A	B	C	D	0.3–3m
		26	1000	1081	QX26/40–1000	A	B	C	D	0.3–3m
		28	1080	1161	QX28/40–1080	A	B	C	D	0.3–3m
		30	1160	1241	QX30/40–1160	A	B	C	D	0.3–3m
		32	1240	1321	QX32/40–1240	A	B	C	D	0.3–3m
		34	1320	1401	QX34/40–1320	A	B	C	D	0.3–3m
		36	1400	1481	QX36/40–1400	A	B	C	D	0.3–3m
		38	1480	1561	QX38/40–1480	A	B	C	D	0.3–3m
		40	1560	1641	QX40/40–1560	A	B	C	D	0.3–3m
		42	1640	1721	QX42/40–1640	A	B	C	D	0.3–3m
		44	1720	1801	QX44/40–1720	A	B	C	D	0.3–3m
		46	1800	1881	QX46/40–1800	A	B	C	D	0.3–3m
		48	1880	1961	QX48/40–1880	A	B	C	D	0.3–3m
		50	1960	2041	QX50/40–1960	A	B	C	D	0.3–3m
		52	2040	2121	QX52/40–2040	A	B	C	D	0.3–3m
		54	2120	2201	QX54/40–2120	A	B	C	D	0.3–3m
		56	2200	2281	QX56/40–2200	A	B	C	D	0.3–3m
		58	2280	2361	QX58/40–2280	A	B	C	D	0.3–3m
		60	2360	2441	QX60/40–2360	A	B	C	D	0.3–3m
		62	2440	2521	QX62/40–2440	A	B	C	D	0.3–3m
		64	2520	2601	QX64/40–2520	A	B	C	D	0.3–3m
		66	2600	2681	QX66/40–2600	A	B	C	D	0.3–3m
		68	2680	2761	QX68/40–2680	A	B	C	D	0.3–3m
		70	2760	2841	QX70/40–2760	A	B	C	D	0.3–3m
		72	2840	2921	QX72/40–2840	A	B	C	D	0.3–3m
	80 mm (K)	4	240	329	QX04/80–240	A	B	C	D	0.3–3m
		6	400	489	QX06/80–400	A	B	C	D	0.3–3m
		...	...	...	...	A	B	C	D	0.3–3m
		32	2480	2569	QX32/80–2480	A	B	C	D	0.3–3m

备注：输出方式详见下一页规格说明，如无要求默认为A图。特殊规格可另外订做，检测距离达3米–20米需提前说明。
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 separately. The detection distance of 3–20 meters should be specified in advance.

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

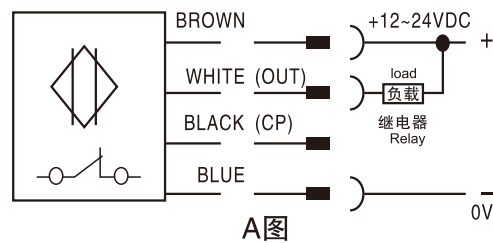


◆ QX 七芯系列接线图
QX 7-core series wiring diagram

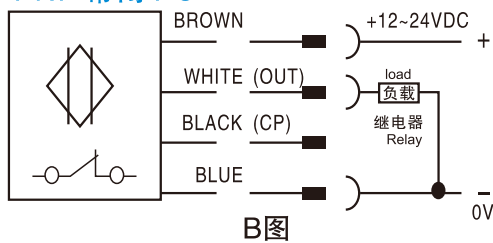


◆ QX 信号输出选择 (晶体管正常工作的实际输出)
QX signal output selection (actual output of transistor working normally)

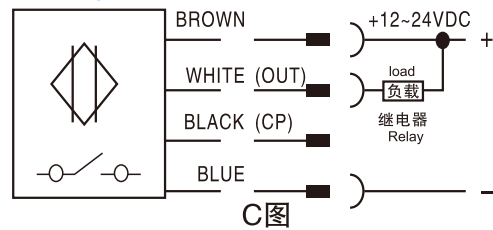
NPN 常闭 NC



PNP 常闭 PC



NPN 常开 NO



PNP 常开 PO

