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Focus on high-end quality

CE ISO9001:2015
RoHS IP65

Technology changes the future

COMPREHENSIVE CATALOG OF SENSORS **Safety light curtain**

Safety light curtain/Safety laser scanner/safety mat/safety edge/safety relay/Photoelectric switch

Safety light curtain application case



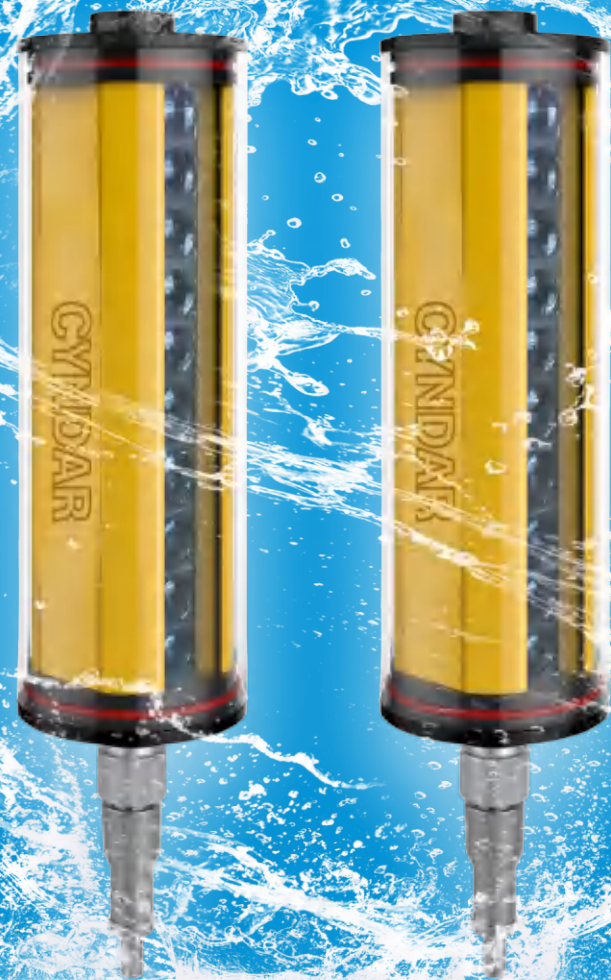
Other product application cases



Model-CRFT Super waterproof safety light curtain

- International IP68 waterproof special customization
- 304 stainless steel screw waterproof aviation plug
- Ultra-fast response speed (less than 15ms)
- Can effectively shield 99% of interference signals

It is widely used in dangerous places such as presses, hydraulic presses, hydraulic presses, shears, automatic doors, etc., where the environment is humid and outdoor.



◆ Safety light curtain

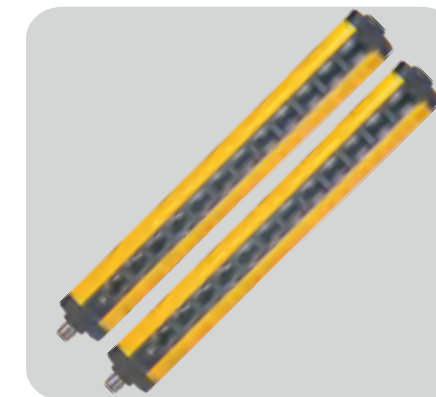
- ★ Perfect self-check function: When the safety screen protector fails, ensure that the wrong signal is not sent to the controlled electrical appliances.
- ★ Strong anti-interference ability: The system has good anti-interference ability to electromagnetic signal, stroboscopic light, welding arc and 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 36mm*36mm.
The safety sensor can be connected to the cable (M12) through the air socket.
- ★ All electronic components adopt world-renowned brand accessories.

◆ Product configuration

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



CRT data cable

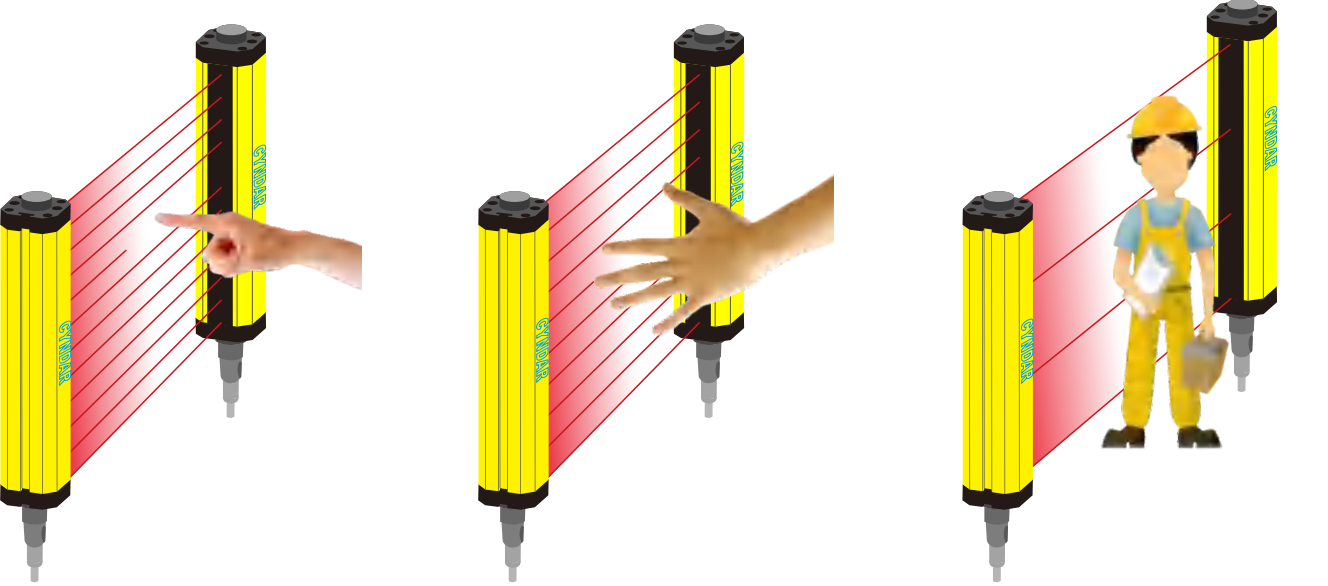


Product outline drawing



304 stainless steel screw,
sealing part all adopt sealing ring,
IP68 class waterproof safety light curtain

◆ Resolving power



spacing 10/14mm
Finger protective spacing

spacing 20/25mm
Palm protective spacing

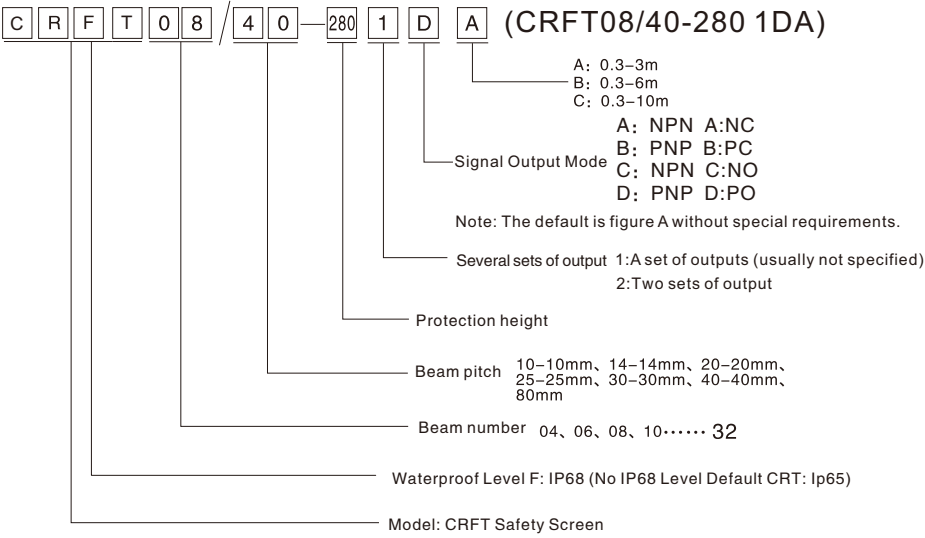
spacing 30/40/80mm
Arm or body protection spacing

◆ Technical parameters of products

Light curtain form	Counter shooting					
Beam pitch	10mm	14mm	20mm	25mm	30mm	40mm
Check the accuracy	18mm	22mm	28mm	33mm	38mm	48mm
Beam number	6、8···32	6、8···32	4、6···32	6、8···32	4、6···32	4、6···32
Height of protection	Beam pitch X (Beam number-1)					
Detection distance	30 ~ 3000mm 、 30~6000mm					
Response time	≤15ms					
Anti light interference	10000Lux(Incidence angle ≥5°)					
Outline size	36x36xLmm(L is the length of light emitter/receiver)					
Protection level	IP65					
Controller	QCA QCA2					
Supply voltage	DC12/24V AC110~220V(Relay output)					
Consumption current	≤200mA					
Output	NPN/PNP type, with current 500 mA and voltage less than 1.5 v, polarity, short circuit and overload protection					
Output state	ON (Receiving Indicator Green Light)					
Indicator light	Projector: Power indicator (red); Receiver: Output indicator (green) shading (red)					
Light source	LED Modulated Infrared LED					
Connection mode	Circular aviation socket with special connecting cable, 4 cores of projector and 5 cores of receiver					
Shell material	Aluminum alloy, end cover: ABS reinforced nylon					
Environmental light resistance	Incandescent light: illumination of the receiving surface 3000Lx; sunlight: illumination of the receiving surface 10000Lx					
Ambient temperature	When working: - 10 ~ + 40 C (but not freezing), when preserved: - 25 ~ + 55 C					
Ambient humidity	Work: 35~85% RH, save: 35~95% RH					

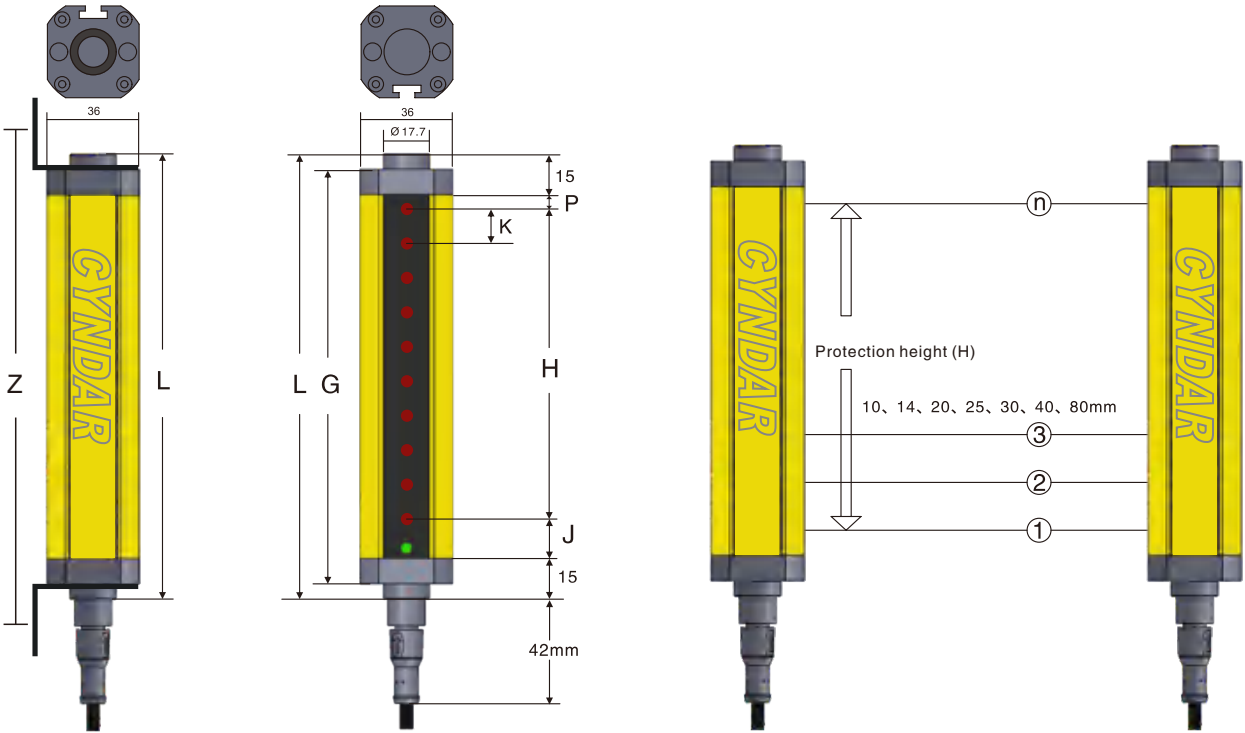
◆ The specifications of CRT type safety screen are as follows

Unit: mm



Detailed models can be found in the specification sheet on the previous page.

◆ Dimensions



Remarks

Center Distance of Fixed Mode of Upper and Lower Right Angle Frames

K:Optical axis spacing L:Total length of light screen n:Optical axis number

$H = (n - 1) * K$ = Height of detection
 $Z = L + 34mm$
 $L = P + H + J + 15mm + 15mm$

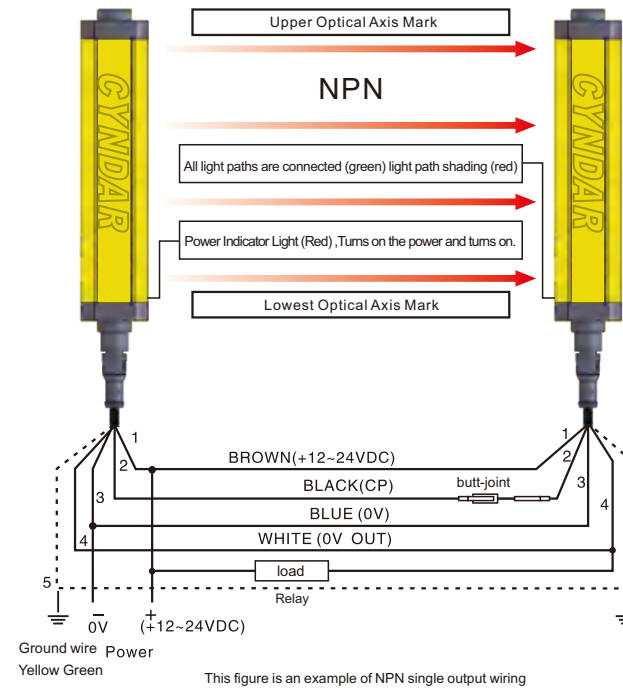
K (mm)	10	14	20	25	30	40	80
P (mm)	5	7	10	12. 5	15	20	40
J (mm)	32	32	25	25	25	25	25

◆ CRFT Specification List

Beam pitch	Light beam	Protection height mm(H)	Screen height mm(L)	Product model	Signal output mode				Detection distance
					NPN	PNP	NPN	PNP	
10mm (K)	6	50	117	CRFT06/10-50	A	B	C	D	0.3-3m
	8	70	137	CRFT08/10-70	A	B	C	D	0.3-3m
	10	90	157	CRFT10/10-90	A	B	C	D	0.3-3m
	12	110	177	CRFT12/10-110	A	B	C	D	0.3-3m
	14	130	197	CRFT14/10-130	A	B	C	D	0.3-3m
	16	150	217	CRFT16/10-150	A	B	C	D	0.3-3m
	18	170	237	CRFT18/10-170	A	B	C	D	0.3-3m
	20	190	257	CRFT20/10-190	A	B	C	D	0.3-3m
	22	210	277	CRFT22/10-210	A	B	C	D	0.3-3m
	24	230	297	CRFT24/10-230	A	B	C	D	0.3-3m
	26	250	317	CRFT26/10-250	A	B	C	D	0.3-3m
	28	270	337	CRFT28/10-270	A	B	C	D	0.3-3m
	30	290	357	CRFT30/10-290	A	B	C	D	0.3-3m
	32	310	377	CRFT32/10-310	A	B	C	D	0.3-3m
	32	310	377	CRFT32/10-310	A	B	C	D	0.3-3m
14mm (K)	6	70	139	CRFT06/14-70	A	B	C	D	0.3-3m
	8	98	167	CRFT08/14-98	A	B	C	D	0.3-3m
	10	126	195	CRFT10/14-126	A	B	C	D	0.3-3m
	12	154	223	CRFT12/14-154	A	B	C	D	0.3-3m
	14	182	251	CRFT14/14-182	A	B	C	D	0.3-3m
	16	210	279	CRFT16/14-210	A	B	C	D	0.3-3m
	18	238	307	CRFT18/14-238	A	B	C	D	0.3-3m
	20	266	335	CRFT20/14-266	A	B	C	D	0.3-3m
	22	294	363	CRFT22/14-294	A	B	C	D	0.3-3m
	24	322	391	CRFT24/14-322	A	B	C	D	0.3-3m
	26	350	419	CRFT26/14-350	A	B	C	D	0.3-3m
	28	378	447	CRFT28/14-378	A	B	C	D	0.3-3m
	30	406	475	CRFT30/14-406	A	B	C	D	0.3-3m
	32	434	503	CRFT32/14-434	A	B	C	D	0.3-3m
	32	434	503	CRFT32/14-434	A	B	C	D	0.3-3m
20mm (K)	4	60	125	CRFT04/20-60	A	B	C	D	0.3-3m
	6	100	165	CRFT06/20-100	A	B	C	D	0.3-3m
	8	140	205	CRFT08/20-140	A	B	C	D	0.3-3m
	10	180	245	CRFT10/20-180	A	B	C	D	0.3-3m
	12	220	285	CRFT12/20-220	A	B	C	D	0.3-3m
	14	260	325	CRFT14/20-260	A	B	C	D	0.3-3m
	16	300	365	CRFT16/20-300	A	B	C	D	0.3-3m
	18	340	405	CRFT18/20-340	A	B	C	D	0.3-3m
	20	380	445	CRFT20/20-380	A	B	C	D	0.3-3m
	22	420	485	CRFT22/20-420	A	B	C	D	0.3-3m
	24	460	525	CRFT24/20-460	A	B	C	D	0.3-3m
	26	500	565	CRFT26/20-500	A	B	C	D	0.3-3m
	28	540	605	CRFT28/20-540	A	B	C	D	0.3-3m
	30	580	645	CRFT30/20-580	A	B	C	D	0.3-3m
	32	620	685	CRFT32/20-620	A	B	C	D	0.3-3m
25mm (K)	6	125	192.5	CRFT06/25-125	A	B	C	D	0.3-3m
	8	175	242.5	CRFT08/25-175	A	B	C	D	0.3-3m
	10	225	292.5	CRFT10/25-225	A	B	C	D	0.3-3m
	12	275	342.5	CRFT12/25-275	A	B	C	D	0.3-3m
	14	325	392.5	CRFT14/25-325	A	B	C	D	0.3-3m
	16	375	442.5	CRFT16/25-375	A	B	C	D	0.3-3m
	18	425	492.5	CRFT18/25-425	A	B	C	D	0.3-3m
	20	475	542.5	CRFT20/25-475	A	B	C	D	0.3-3m
	22	525	592.5	CRFT22/25-525	A	B	C	D	0.3-3m
	24	575	642.5	CRFT24/25-575	A	B	C	D	0.3-3m
	26	625	692.5	CRFT26/25-625	A	B	C	D	0.3-3m
	28	675	742.5	CRFT28/25-675	A	B	C	D	0.3-3m
	30	725	792.5	CRFT30/25-725	A	B	C	D	0.3-3m
	32	775	842.5	CRFT32/25-775	A	B	C	D	0.3-3m
	32	775	842.5	CRFT32/25-775	A	B	C	D	0.3-3m
30mm (K)	4	90	160	CRFT04/30-90	A	B	C	D	0.3-3m
	6	150	220	CRFT06/30-150	A	B	C	D	0.3-3m
	8	210	280	CRFT08/30-210	A	B	C	D	0.3-3m
	10	270	340	CRFT10/30-270	A	B	C	D	0.3-3m
	12	330	400	CRFT12/30-330	A	B	C	D	0.3-3m
	14	390	460	CRFT14/30-390	A	B	C	D	0.3-3m
	16	450	520	CRFT16/30-450	A	B	C	D	0.3-3m
	18	510	580	CRFT18/30-510	A	B	C	D	0.3-3m
	20	570	640	CRFT20/30-570	A	B	C	D	0.3-3m
	22	630	700	CRFT22/30-630	A	B	C	D	0.3-3m
	24	690	760	CRFT24/30-690	A	B	C	D	0.3-3m
	26	750	820	CRFT26/30-750	A	B	C	D	0.3-3m
	28	810	880	CRFT28/30-810	A	B	C	D	0.3-3m
	30	870	940	CRFT30/30-870	A	B	C	D	0.3-3m
	32	930	1000	CRFT32/30-930	A	B	C	D	0.3-3m
40mm (K)	4	120	195	CRFT04/40-120	A	B	C	D	0.3-3m
	6	200	275	CRFT06/40-200	A	B	C	D	0.3-3m
	8	280	355	CRFT08/40-280	A	B	C	D	0.3-3m
	10	360	435	CRFT10/40-360	A	B	C	D	0.3-3m
	12	440	515	CRFT12/40-440	A	B	C	D	0.3-3m
	14	520	595	CRFT14/40-520	A	B	C	D	0.3-3m
	16	600	675	CRFT16/40-600	A	B	C	D	0.3-3m
	18	680	755	CRFT18/40-680	A	B	C	D	0.3-3m
	20	760	835	CRFT20/40-760	A	B	C	D	0.3-3m
	22	840	915	CRFT22/40-840	A	B	C	D	0.3-3m
	24	920	995	CRFT24/40-920	A	B	C	D	0.3-3m
	26	1000	1075	CRFT26/40-1000	A	B	C	D	0.3-3m
	28	1080	1155	CRFT28/40-1080	A	B	C	D	0.3-3m
	30	1160	1235	CRFT30/40-1160	A	B	C	D	0.3-3m
	32	1240	1315	CRFT32/40-1240	A	B	C	D	0.3-3m
80mm (K)	4	240	335	CRFT04/80-240	A	B	C	D	0.3-3m
	6	400	495	CRFT06/80-400	A	B	C	D	0.3-3m
	8	560	655	CRFT08/80-560	A	B	C	D	0.3-3m
	10	720	815	CRFT10/80-720	A	B	C	D	0.3-3m
	12	880	975	CRFT12/80-880	A	B	C	D	0.3-3m
	14	1040	1135	CRFT14/80-1040	A	B	C	D	0.3-3m
	...	...	...	...	A	B	C	D	0.3-3m
	26	2000	2095	CRFT26/80-2000	A	B	C	D	0.3-3m
	28	2160	2255	CRFT28/80-2160	A	B	C	D	0.3-3m
	30	2320	2415	CRFT30/80-2320	A	B	C	D	0.3-3m
	32	2480	2575	CRFT32/80-2480	A	B	C	D	0.3-3m
	32	2480	2575	CRFT32/80-2480	A	B	C	D	0.3-3m

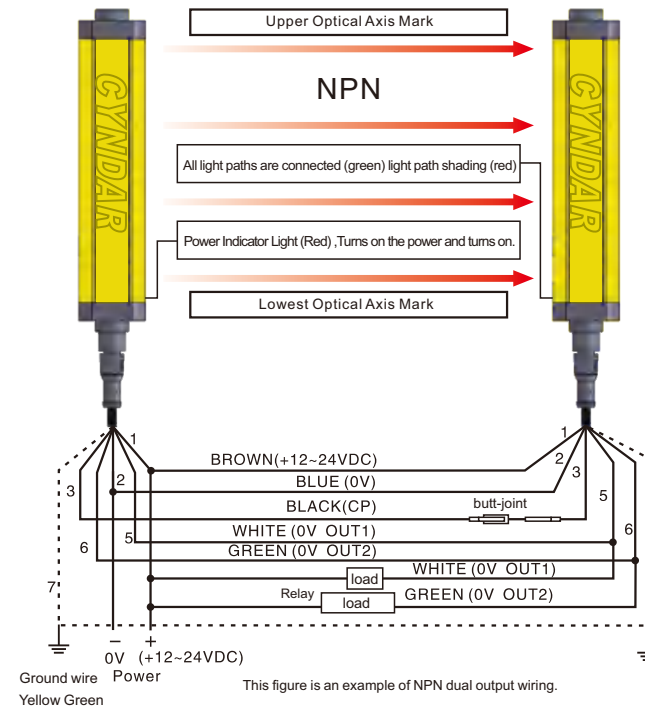
Note: The output mode is detailed in the specifications on the previous page. If there is no requirement, the default is figure A.
The 80mm spacing and special specifications can be customized separately, and the detection distance up to 3M or more needs to be specified in advance.

◆ CRFT Five-core Series Wiring Diagram



This figure is an example of NPN single output wiring

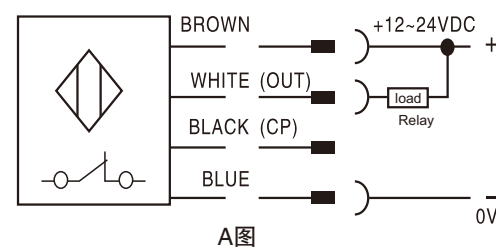
◆ Transmitter and receiver seven-core wiring diagram



This figure is an example of NPN dual output wiring.

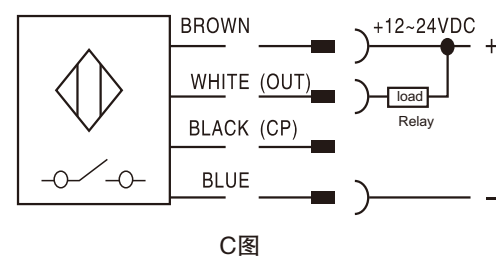
◆ CRFT signal output selection (actual output of transistor working normally)

NPN NC



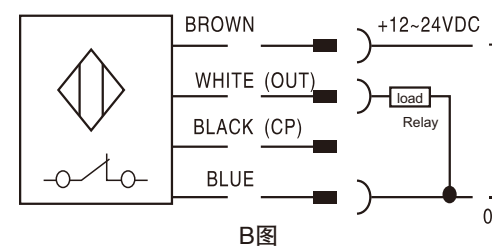
A图

NPN NO



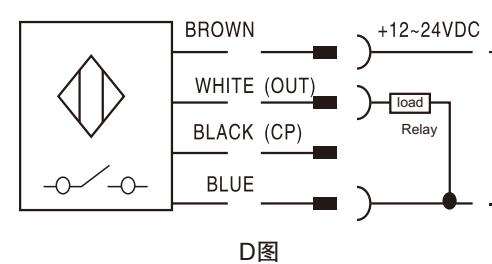
C图

PNP PC



B图

PNP PO



D图