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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-CZT-CBT No blind spot safety light curtain

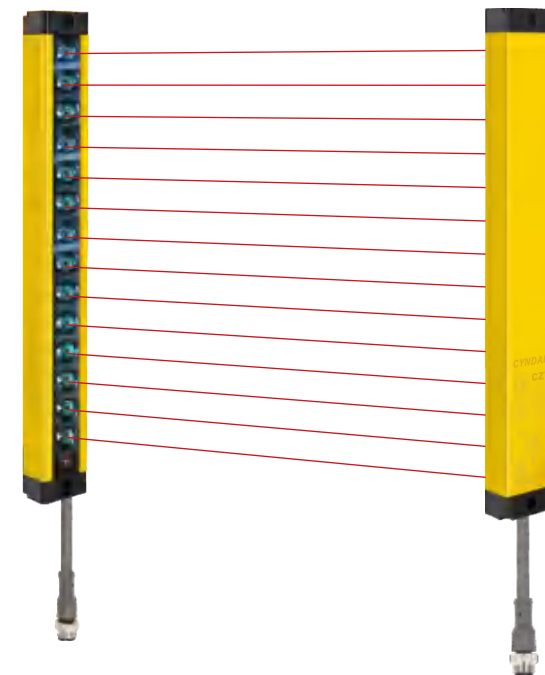
- QB series ultra-thin light output section is only 15mm
- QZ series ultra-thin side is only 17.2mm
- Ultra-fast response speed (less than 15ms)
- Can effectively shield 99% of interference signals

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.

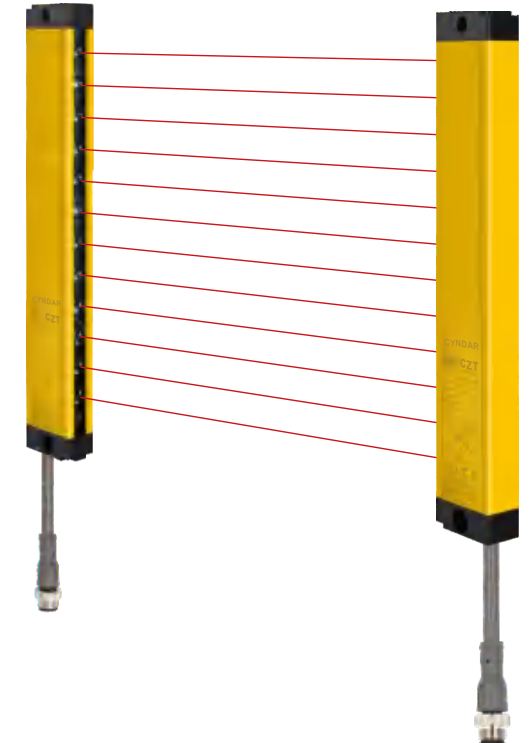


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◆ Ultra-thin safety screen (17.2x30mm)



◆ Ultra-thin safety screen (30x15mm)



◆ Product configuration

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

◆ Product characteristics

- ★ 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.
- ★ Ultra-thin shape size design, width and thickness QZ only 17.2 mm*30 mm, QB only 30 mm*15 mm. The safety sensor can be connected to the cable (M12) through an aviation socket.
- ★ All electronic components adopt world-renowned brand accessories.

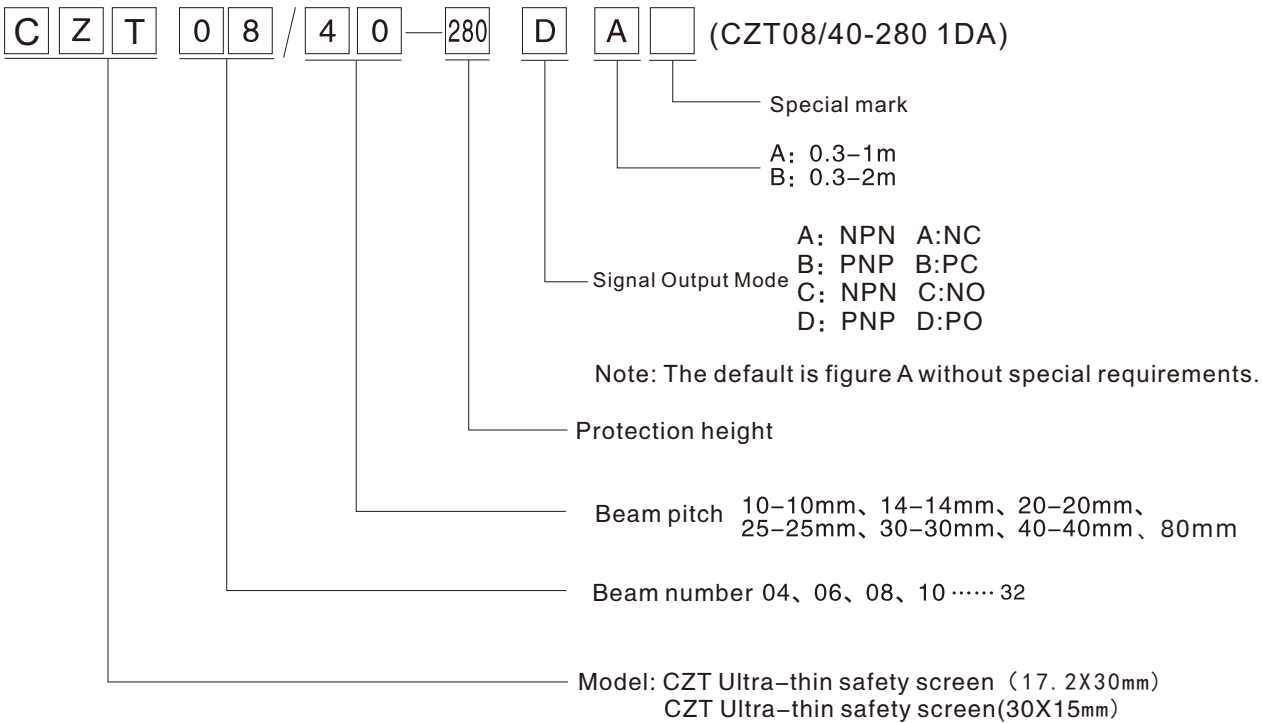
◆ Resolving power



◆ CZT/CBT Technical parameters of products

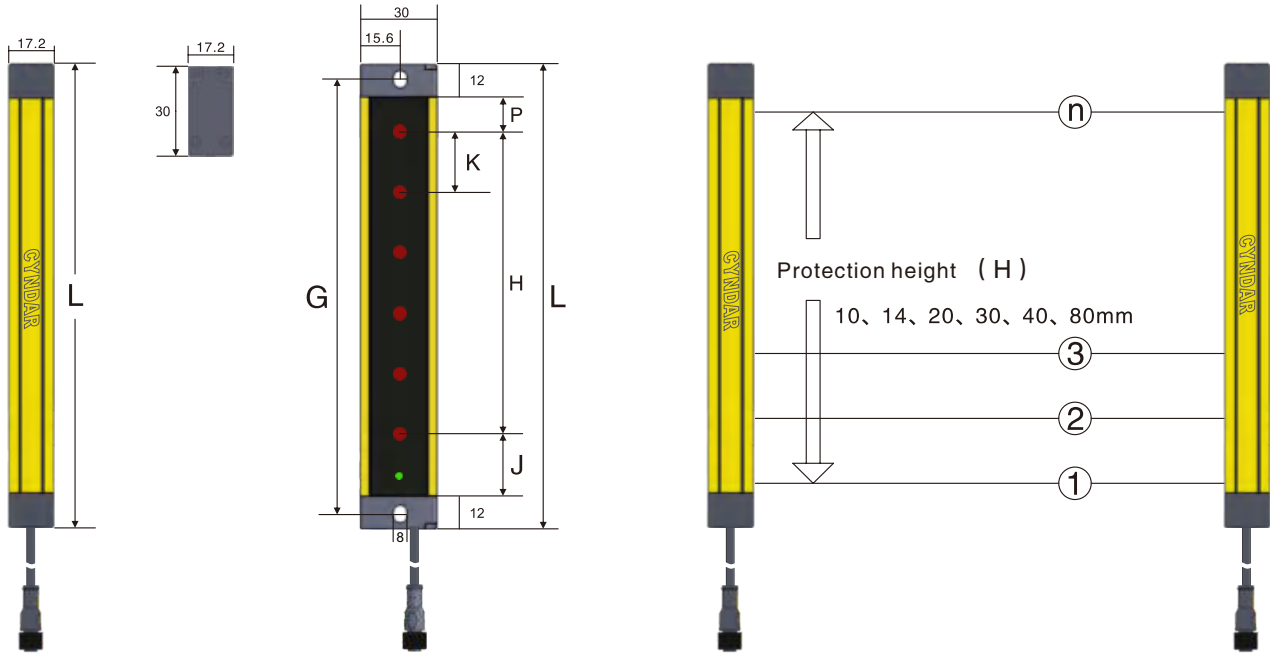
Light curtain form	Counter shooting					
Beam pitch	10mm	14mm	20mm	25mm	30mm	40mm
Beam pitch	10mm		20mm			40mm
Check the accuracy	18mm	22mm	28mm	33mm	38mm	48mm
Beam number	6、8···32	6、8···32	4、6···32	6、8···32	4、6···32	4、6···32
Height of protection	Beam pitch X (Beam number-1)					
Detection distance	30 ~ 3000mm 、 30-6000mm					
Response time	≤15ms					
Anti light interference	10000Lux(Incidence angle ≥5°)					
Outline size	35x51xLmm(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					

CZT/CBT ultra-thin safety light curtain specification sheet is as follows



Please see the specification table on the next page for detailed models.

◆ Dimensions



Remarks
 $H = (n - 1) * K$ = Height of detection L: Total length of light screen n: Optical axis number
Fixed hole center distance Z=L-11mm K: Optical axis spacing

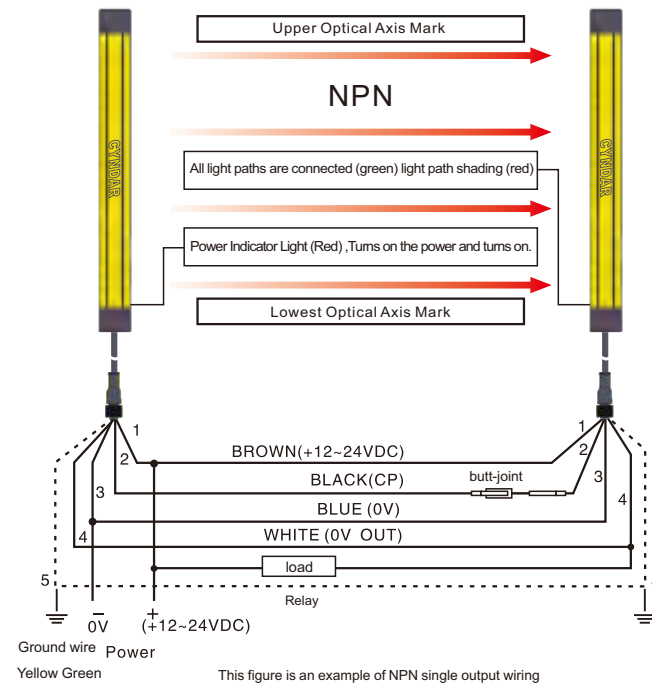
K(mm)	10	14	20	25	30	40	80
P(mm)	5	7	10	12.5	15	20	40
J(mm)	32	32	25	25	25	25	25

◆ CZT规格一览表Specification List

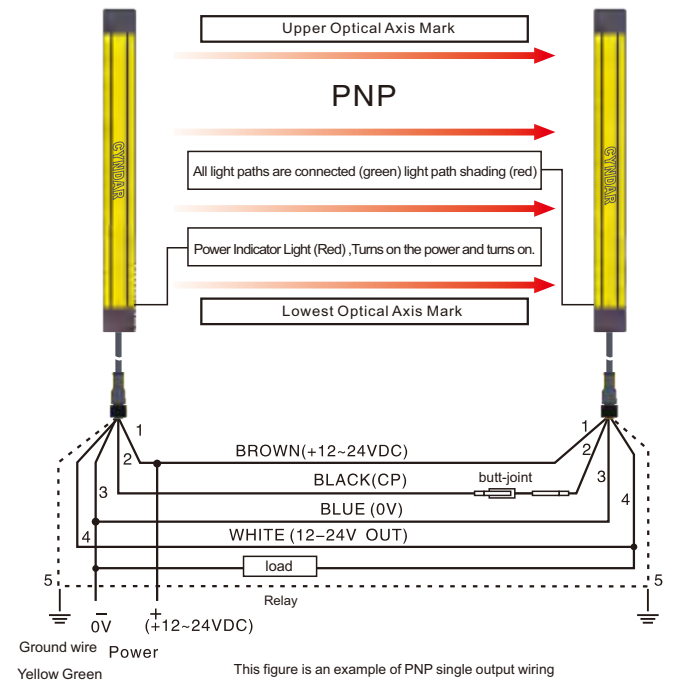
Beam pitch	Light beam	Protection height (H)	Screen height (L)	Product model	Signal output mode				Detection distance
					NPN	PNP	NPN	PNP	
10mm (K)	6	50	111	CZT06/10-50	A	B	C	D	0.3-3m
	8	70	131	CZT08/10-70	A	B	C	D	0.3-3m
	10	90	151	CZT10/10-90	A	B	C	D	0.3-3m
	12	110	171	CZT12/10-110	A	B	C	D	0.3-3m
	14	130	191	CZT14/10-130	A	B	C	D	0.3-3m
	16	150	211	CZT16/10-150	A	B	C	D	0.3-3m
	18	170	231	CZT18/10-170	A	B	C	D	0.3-3m
	20	190	251	CZT20/10-190	A	B	C	D	0.3-3m
	22	210	271	CZT22/10-210	A	B	C	D	0.3-3m
	24	230	291	CZT24/10-230	A	B	C	D	0.3-3m
	26	250	311	CZT26/10-250	A	B	C	D	0.3-3m
	28	270	331	CZT28/10-270	A	B	C	D	0.3-3m
	30	290	351	CZT30/10-290	A	B	C	D	0.3-3m
	32	310	371	CZT32/10-310	A	B	C	D	0.3-3m
	6	70	133	CZT06/14-70	A	B	C	D	0.3-3m
14mm (K)	8	98	161	CZT08/14-98	A	B	C	D	0.3-3m
	10	126	189	CZT10/14-126	A	B	C	D	0.3-3m
	12	154	217	CZT12/14-154	A	B	C	D	0.3-3m
	14	182	245	CZT14/14-182	A	B	C	D	0.3-3m
	16	210	273	CZT16/14-210	A	B	C	D	0.3-3m
	18	238	301	CZT18/14-238	A	B	C	D	0.3-3m
	20	266	329	CZT20/14-266	A	B	C	D	0.3-3m
	22	294	357	CZT22/14-294	A	B	C	D	0.3-3m
	24	322	385	CZT24/14-322	A	B	C	D	0.3-3m
	26	350	413	CZT26/14-350	A	B	C	D	0.3-3m
	28	378	441	CZT28/14-378	A	B	C	D	0.3-3m
	30	406	469	CZT30/14-406	A	B	C	D	0.3-3m
	32	434	497	CZT32/14-434	A	B	C	D	0.3-3m
	4	60	119	CZT04/20-60	A	B	C	D	0.3-3m
	6	100	159	CZT06/20-100	A	B	C	D	0.3-3m
20mm (K)	8	140	199	CZT08/20-140	A	B	C	D	0.3-3m
	10	180	239	CZT10/20-180	A	B	C	D	0.3-3m
	12	220	279	CZT12/20-220	A	B	C	D	0.3-3m
	14	260	319	CZT14/20-260	A	B	C	D	0.3-3m
	16	300	359	CZT16/20-300	A	B	C	D	0.3-3m
	18	340	399	CZT18/20-340	A	B	C	D	0.3-3m
	20	380	439	CZT20/20-380	A	B	C	D	0.3-3m
	22	420	479	CZT22/20-420	A	B	C	D	0.3-3m
	24	460	519	CZT24/20-460	A	B	C	D	0.3-3m
	26	500	559	CZT26/20-500	A	B	C	D	0.3-3m
	28	540	599	CZT28/20-540	A	B	C	D	0.3-3m
	30	580	639	CZT30/20-580	A	B	C	D	0.3-3m
	32	620	679	CZT32/20-620	A	B	C	D	0.3-3m
	6	125	186.5	CZT06/25-125	A	B	C	D	0.3-3m
	8	175	236.5	CZT08/25-175	A	B	C	D	0.3-3m
25mm (K)	10	225	286.5	CZT10/25-225	A	B	C	D	0.3-3m
	12	275	336.5	CZT12/25-275	A	B	C	D	0.3-3m
	14	325	386.5	CZT14/25-325	A	B	C	D	0.3-3m
	16	375	436.5	CZT16/25-375	A	B	C	D	0.3-3m
	18	425	486.5	CZT18/25-425	A	B	C	D	0.3-3m
	20	475	538.5	CZT20/25-475	A	B	C	D	0.3-3m
	22	525	586.5	CZT22/25-525	A	B	C	D	0.3-3m
	24	575	636.5	CZT24/25-575	A	B	C	D	0.3-3m
	26	625	686.5	CZT26/25-625	A	B	C	D	0.3-3m
	28	675	736.5	CZT28/25-675	A	B	C	D	0.3-3m
	30	725	786.5	CZT30/25-725	A	B	C	D	0.3-3m
	32	775	836.5	CZT32/25-775	A	B	C	D	0.3-3m
	4	90	154	CZT04/30-90	A	B	C	D	0.3-3m
	6	150	214	CZT06/30-150	A	B	C	D	0.3-3m
	8	210	274	CZT08/30-210	A	B	C	D	0.3-3m
30mm (K)	10	270	334	CZT10/30-270	A	B	C	D	0.3-3m
	12	330	394	CZT12/30-330	A	B	C	D	0.3-3m
	14	390	454	CZT14/30-390	A	B	C	D	0.3-3m
	16	450	514	CZT16/30-450	A	B	C	D	0.3-3m
	18	510	574	CZT18/30-510	A	B	C	D	0.3-3m
	20	570	634	CZT20/30-570	A	B	C	D	0.3-3m
	22	630	694	CZT22/30-630	A	B	C	D	0.3-3m
	24	690	754	CZT24/30-690	A	B	C	D	0.3-3m
	26	750	814	CZT26/30-750	A	B	C	D	0.3-3m
	28	810	874	CZT28/30-810	A	B	C	D	0.3-3m
	30	870	934	CZT30/30-870	A	B	C	D	0.3-3m
	32	930	994	CZT32/30-930	A	B	C	D	0.3-3m
	4	120	189	CZT04/40-120	A	B	C	D	0.3-3m
	6	200	269	CZT06/40-200	A	B	C	D	0.3-3m
	8	280	349	CZT08/40-280	A	B	C	D	0.3-3m
40mm (K)	10	360	429	CZT10/40-360	A	B	C	D	0.3-3m
	12	440	509	CZT12/40-440	A	B	C	D	0.3-3m
	14	520	589	CZT14/40-520	A	B	C	D	0.3-3m
	16	600	669	CZT16/40-600	A	B	C	D	0.3-3m
	18	680	749	CZT18/40-680	A	B	C	D	0.3-3m
	20	760	829	CZT20/40-760	A	B	C	D	0.3-3m
	22	840	909	CZT22/40-840	A	B	C	D	0.3-3m
	24	920	989	CZT24/40-920	A	B	C	D	0.3-3m
	26	1000	1069	CZT26/40-1000	A	B	C	D	0.3-3m
	28	1080	1149	CZT28/40-1080	A	B	C	D	0.3-3m
	30	1160	1229	CZT30/40-1160	A	B	C	D	0.3-3m
	32	1240	1309	CZT32/40-1240	A	B	C	D	0.3-3m
	4	240	329	CZT04/80-240	A	B	C	D	0.3-3m
	6	400	489	CZT06/80-400	A	B	C	D	0.3-3m
	8	560	649	CZT08/80-560	A	B	C	D	0.3-3m
80mm (K)	10	720	809	CZT10/80-720	A	B	C	D	0.3-3m
	12	880	969	CZT12/80-880	A	B	C	D	0.3-3m
	14	1040	1129	CZT14/80-1040	A	B	C	D	0.3-3m
	...	...	...	...	A	B	C	D	0.3-3m
	26	2000	2089	CZT26/80-2000	A	B	C	D	0.3-3m
	28	2160	2249	CZT28/80-2160	A	B	C	D	0.3-3m
	30	2320	2409	CZT30/80-2320	A	B	C	D	0.3-3m
	32	2480	2569	CZT32/80-2480	A	B	C	D	0.3-3m

Remarks: Please refer to the specification on the previous page for the output method. If there is no requirement, the default is A picture.
80mm pitch and special specifications can be customized, The detection distance is 0.3-2M.

◆ CZT transmitting and receiving full five-core series NPN wiring diagram

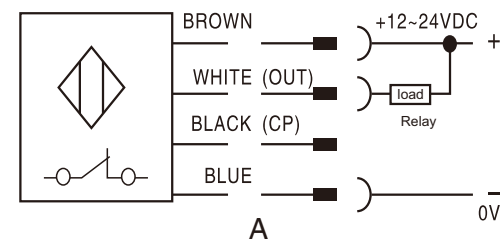


◆ CZT transmitter, receiver full five-core NPN wiring diagram

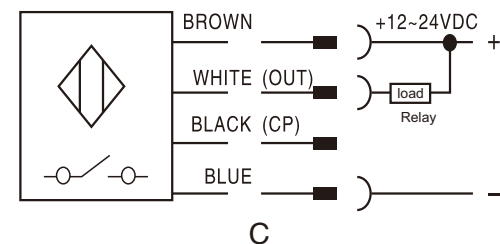


◆ CZT signal output selection (actual output of transistor working normally)

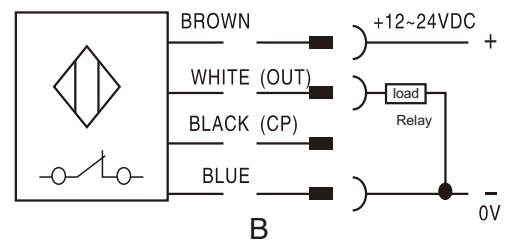
NPN NC



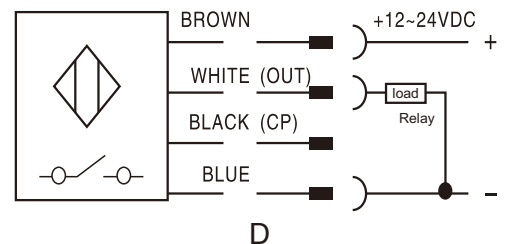
NPN NO



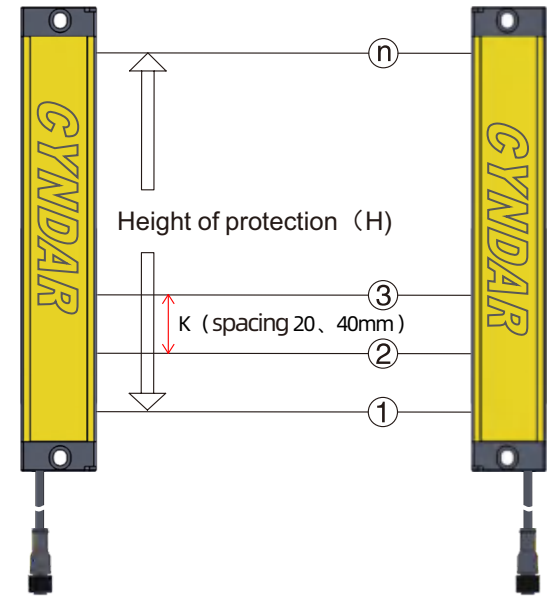
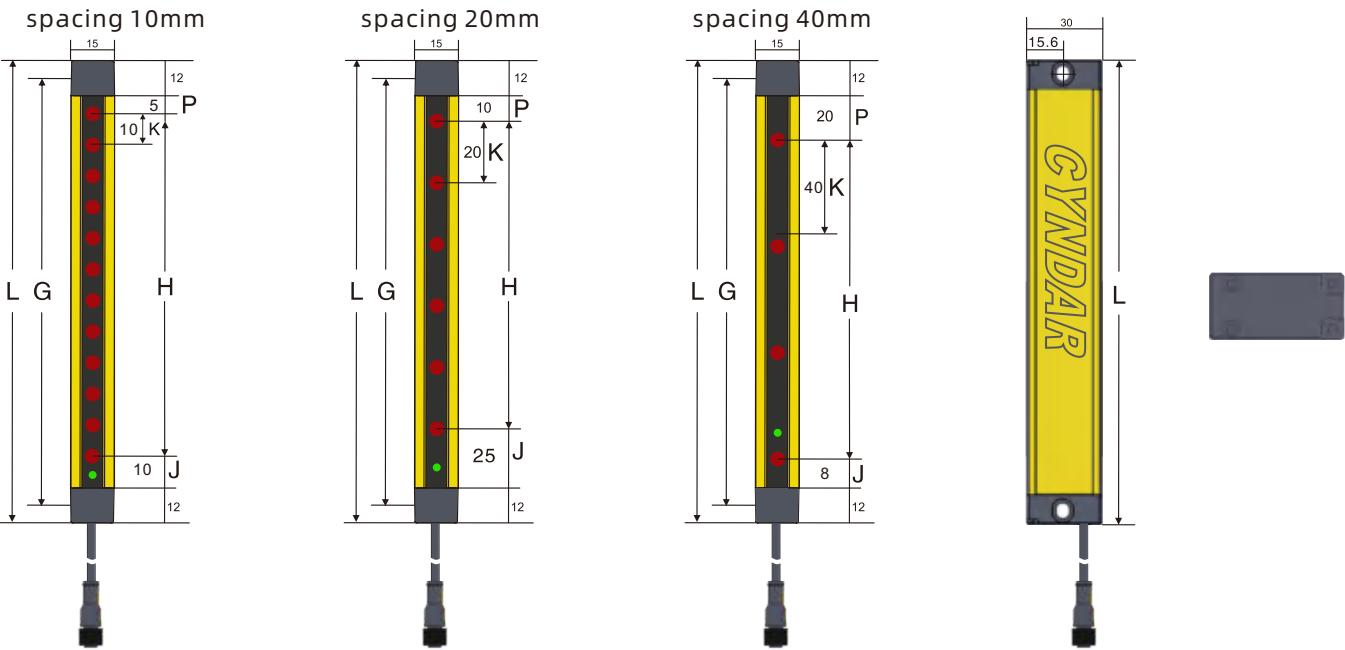
PNP PC



PNP PO



◆ CBT Dimensions



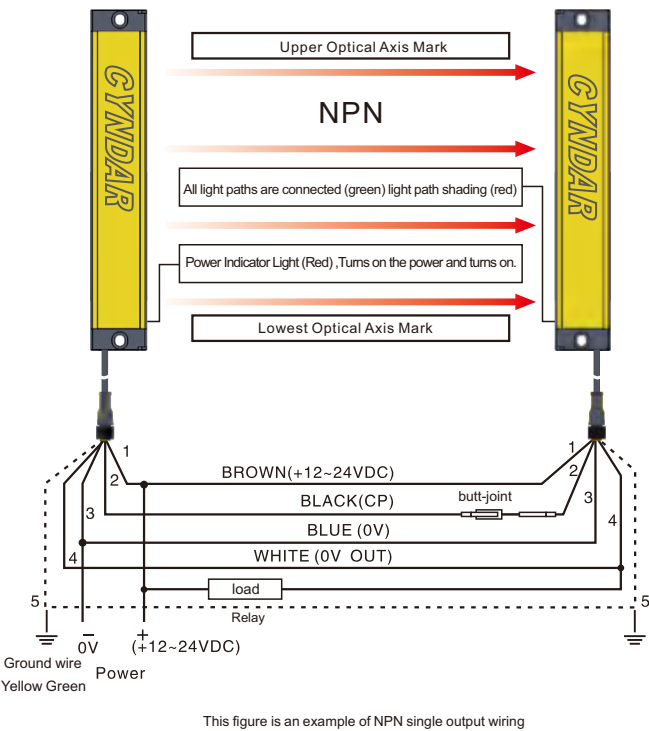
spacing 20mm (K)			
Optical axis spacing 20mm (K)			
4	CBT04/20-60*#	60	119
6	CBT06/20-100*#	100	159
8	CBT08/20-140*#	140	199
10	CBT10/20-180*#	180	239
12	CBT12/20-220*#	220	279
14	CBT14/20-260*#	260	319
16	CBT16/20-300*#	300	359
18	CBT18/20-340*#	340	399
20	CBT20/20-380*#	380	439
22	CBT22/20-420*#	420	479
24	CBT24/20-460*#	460	519
26	CBT26/20-500*#	500	559
28	CBT28/20-540*#	540	599
30	CBT30/20-580*#	580	639
32	CBT32/20-620*#	620	679

◆ CBT Specification List

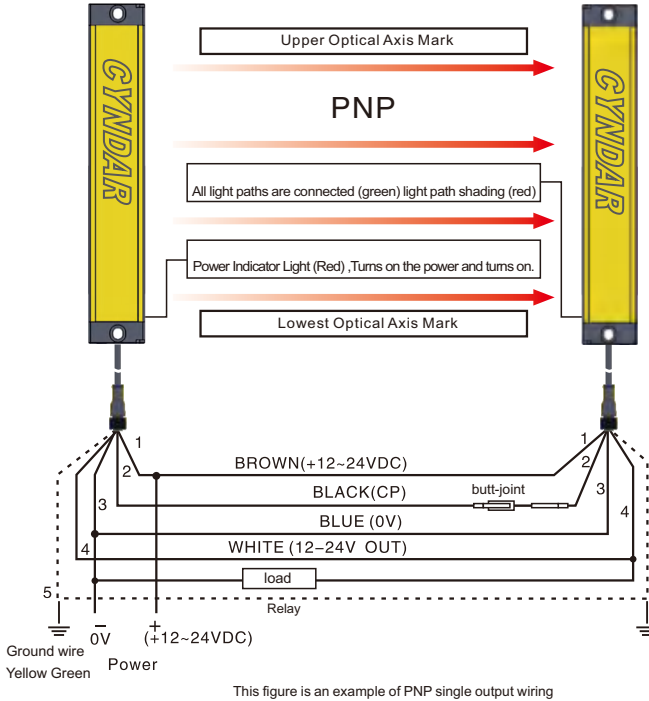
Optical axis number	Model number	Protection height	Light curtain height
Optical axis spacing 40mm (K)			
6	CBT06/10-50*#	50	89
8	CBT08/10-70*#	70	109
10	CBT10/10-90*#	90	129
12	CBT12/10-110*#	110	149
14	CBT14/10-130*#	130	169
16	CBT16/10-150*#	150	189
18	CBT18/10-170*#	170	209
20	CBT20/10-190*#	190	229
22	CBT22/10-210*#	210	249
24	CBT24/10-230*#	230	269
26	CBT26/10-250*#	250	289
28	CBT28/10-270*#	270	309
30	CBT30/10-290*#	290	329
32	CBT32/10-310*#	310	349

spacing 40mm (K)			
Optical axis spacing 40mm (K)			
4	CBT04/40-120*#	120	189
6	CBT06/40-200*#	200	269
8	CBT08/40-280*#	280	349
10	CBT10/40-360*#	360	429
12	CBT12/40-440*#	440	509
14	CBT14/40-520*#	520	589
16	CBT16/40-600*#	600	669
18	CBT18/40-680*#	680	749
20	CBT20/40-760*#	760	829
22	CBT22/40-840*#	840	909
24	CBT24/40-920*#	920	989
26	CBT26/40-1000*#	1000	1069
28	CBT28/40-1080*#	1080	1149
30	CBT30/40-1160*#	1160	1229
32	CBT32/40-1240*#	1240	1309

◆ CBT transmitting and receiving five-core wiring diagram



◆ CBT transmitting and receiving five-core wiring diagram



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

