

# KS06G cascaded safety light curtain

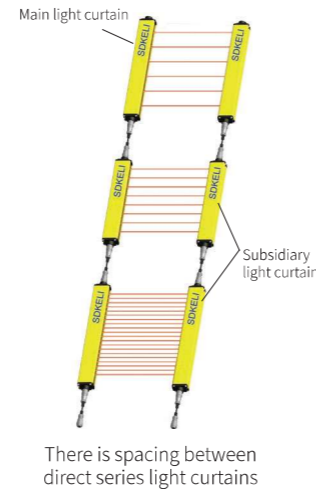
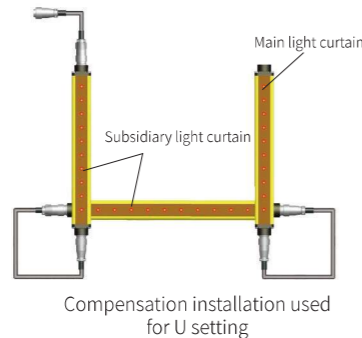
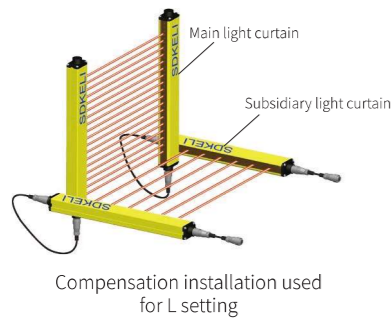
## Product description

KS06G cascaded safety light curtain can achieve 4 sets of light curtains in series, the total number of beams is up to 288; meanwhile, it can also realize "serial settings" with increased protection height, "L setting" and "U setting" with multi-sided protection, thus saving costs for users while simplifying installation and wiring space.

After risk assessment, if a controller is not required and level signal control is required, KS06G cascaded safety light curtain can be used to integrate the controller functions into the sensor and directly output two-way safe PNP or NPN signals.

## Product composition

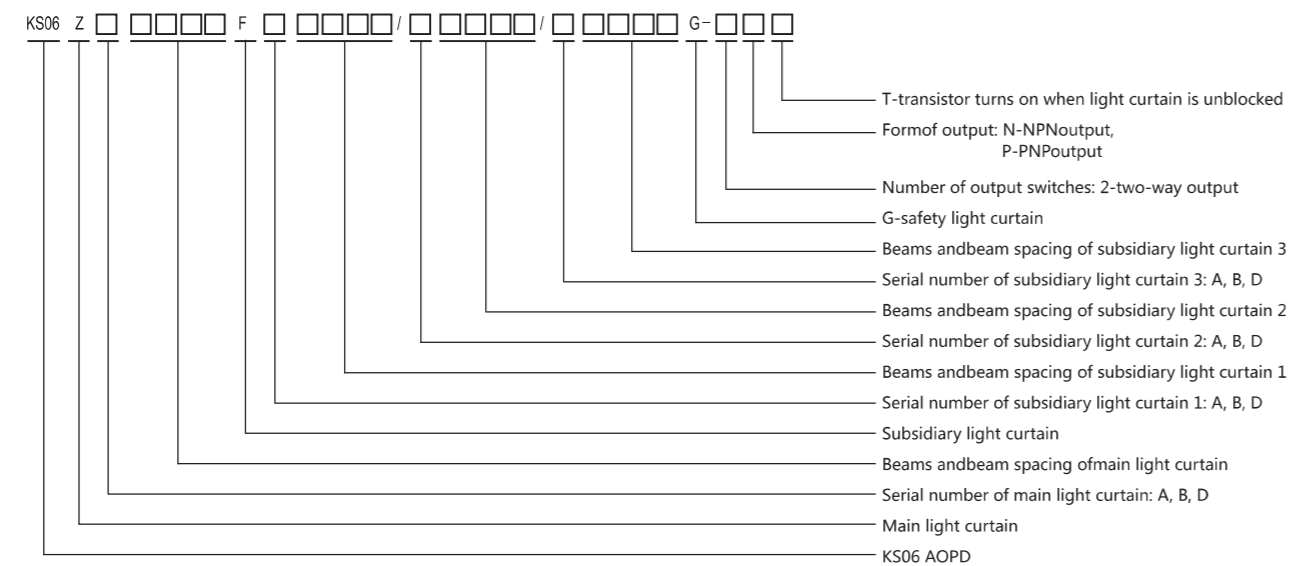
It is composed of 1 set of main light curtain, 1-3 sets of subsidiary light curtain and transmission cable.



GB/T 19436.1/IEC 61496-1 ( Type 4 )  
GB/T 19436.2/IEC 61496-2 ( Type 4 )

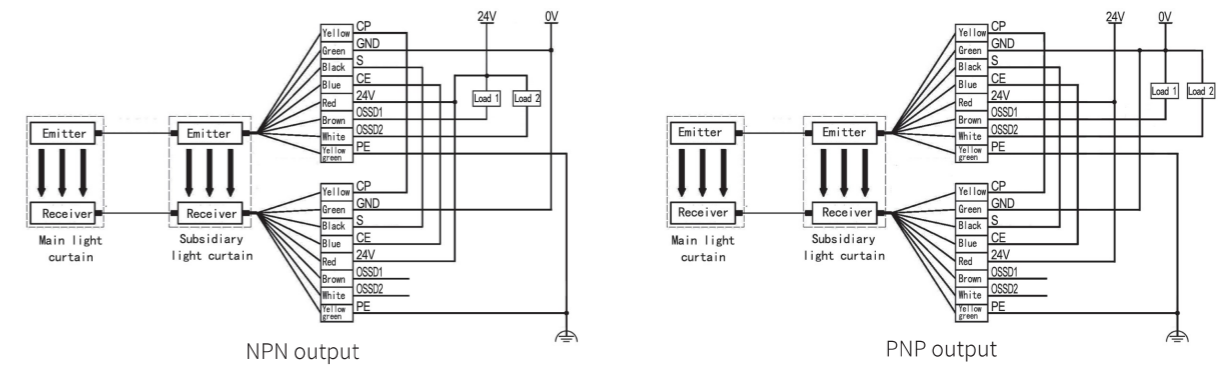


## Specifications model



Note: Please specify the mounting brackets of safety light curtain when ordering.

## Typical wiring diagram



## Technical parameters

— Table31 —

Safety level	Type 4 (GB/T 19436, IEC 61496)		
Standards	GB/T 19436.1; GB/T 19436.2; GB 4584-2007; IEC 61496-1; IEC 61496-2		
Optical characteristics			
Detection light source	Infrared LED (central wavelength of 940nm)		
Beam spacing	10mm	20mm	40mm
Detection capability	18mm	28mm	48mm
Number of beams	16、20…72	8、12…72	4、6…72
Operating range	A: 0~3m, B: 0~6m, C: 0~12m, D: 8~20m (specially customized)		
Protective height	Beam spacing × (Number of beams-1)		
EAA	Meet the requirements of IEC61496-2, when the detection distance is above 3m, EAA<2.5°		
Environmental characteristics			
Environment temperature	Operating	-10°C~55°C(No frost or fog)	
	Storage	-40°C~70°C	
Environment humidity	Operating	35%RH~85%RH	
	Storage	35%RH~95%RH	
Light interference resistance	Incandescent lamp	3000 Lux	
	Fluorescent lamp	3000 Lux	
	Sun light source	10000 Lux	
EMC	EMS	Meet the requirements for Level 4 safety light curtain in GB/T19436-1 and GB4584-2007	
	EMI	Meet the requirements for the electromagnetic radiation at the industrial site in EN61326-1 and EN55011	
Vibration resistance	Frequency: 10Hz ~ 55Hz; amplitude: 0.35 ± 0.05 mm; number of scans: three axes, 20 times per axis		
Shock resistance	Acceleration: 10g; pulse duration: 16 ms; number of collisions: three axes, 1000 ± 10 times per axis		
IP code	IP65		
Dimensions	52 × 35 × J1/J2mm(J1 is the length of emitter/receiver of main light curtain; J2 is the length of emitter/receiver of subsidiary light curtain)		
Electrical characteristics			
Power supply	DC24V ± 10%		
Consumption current	Emitter	≤ 300mA	
	Receiver	≤ 100mA	
Response time	≤ 20ms		
Output characteristics	PNP	Light-passing state: 300mA, DC20V~24V; light-shading state: OPEN, DC0V	
	NPN	Light-passing state: 300mA, DC0V~4V; light-shading state: OPEN, DC24V	



Beam spacing 40									
Detection capability 48									
Number of beams	Specifications	H	Main light curtain J1	Subsidiary light curtain J2	L	C	MTTF <sub>D</sub>	PFH <sub>D</sub> (1/h)	MTTF
4	KS06 () *0440G2#T	120	239	249	500	300	387	5.94E-09	69
6	KS06 () *0640G2#T	200	319	329	500	380	372	6.44E-09	67
8	KS06 () *0840G2#T	280	399	409	750	460	358	6.44E-09	65
10	KS06 () *1040G2#T	360	479	489	750	540	345	7.04E-09	63
12	KS06 () *1240G2#T	440	559	569	1000	620	333	7.04E-09	62
14	KS06 () *1440G2#T	520	639	649	1000	700	321	7.04E-09	60
16	KS06 () *1640G2#T	600	719	729	1000	780	311	7.76E-09	59
18	KS06 () *1840G2#T	680	799	809	1000	860	301	7.76E-09	57
20	KS06 () *2040G2#T	760	879	889	1200	940	292	7.76E-09	56
22	KS06 () *2240G2#T	840	959	969	1200	1020	283	8.67E-09	55
24	KS06 () *2440G2#T	920	1039	1049	1500	1100	275	8.67E-09	54
26	KS06 () *2640G2#T	1000	1119	1129	1500	1180	267	8.67E-09	53
28	KS06 () *2840G2#T	1080	1199	1209	1500	1260	260	8.67E-09	52
30	KS06 () *3040G2#T	1160	1279	1289	1500	1340	253	9.81E-09	50
32	KS06 () *3240G2#T	1240	1359	1369	1750	1420	246	9.81E-09	49
34	KS06 () *3440G2#T	1320	1439	1449	1750	1500	240	9.81E-09	49
36	KS06 () *3640G2#T	1400	1519	1529	1750	1580	234	9.81E-09	48
38	KS06 () *3840G2#T	1480	1599	1609	2000	1660	228	1.08E-08	47
40	KS06 () *4040G2#T	1560	1679	1689	2000	1740	223	1.08E-08	46
42	KS06 () *4240G2#T	1640	1759	1769	2000	1820	218	1.08E-08	45
44	KS06 () *4440G2#T	1720	1839	1849	1900	1900	213	1.08E-08	44
46	KS06 () *4640G2#T	1800	1919	1929	1980	1980	208	1.19E-08	43
48	KS06 () *4840G2#T	1880	1999	2009	2060	2060	204	1.19E-08	43
50	KS06 () *5040G2#T	1960	2079	2089	2140	2140	199	1.19E-08	42
52	KS06 () *5240G2#T	2040	2159	2169	2220	2220	195	1.19E-08	41
54	KS06 () *5440G2#T	2120	2239	2249	2300	2300	191	1.19E-08	41
56	KS06 () *5640G2#T	2200	2319	2329	2380	2380	188	1.33E-08	40
58	KS06 () *5840G2#T	2280	2399	2409	2460	2460	184	1.33E-08	39
60	KS06 () *6040G2#T	2360	2479	2489	2540	2540	180	1.33E-08	39
62	KS06 () *6240G2#T	2440	2559	2569	2620	2620	177	1.33E-08	38
64	KS06 () *6440G2#T	2520	2639	2649	2700	2700	174	1.33E-08	38
66	KS06 () *6640G2#T	2600	2719	2729	2780	2780	171	1.33E-08	37
68	KS06 () *6840G2#T	2680	2799	2809	2860	2860	168	1.50E-08	36

# KS06 Qarea protective safety light curtain

GB/T 19436.1/IEC 61496-1 ( Type 4 )

GB/T 19436.2/IEC 61496-2 ( Type 4 )

## Product description

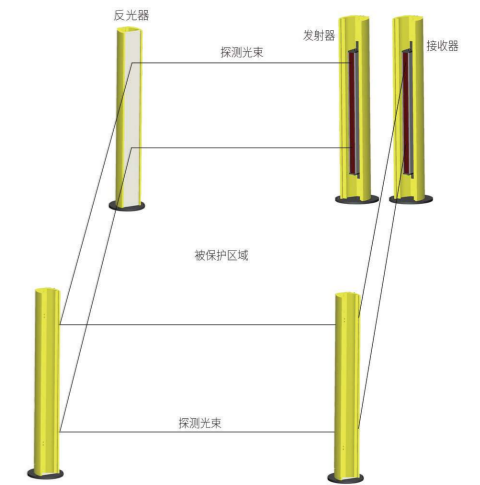
KS06Qarea protective safety light curtain are divided into KS06QA series and KS06QB series. KS06Qarea safety light curtain does not require controller, and it can provide two ways of PNP or NPN transistor output signal.

## Product composition

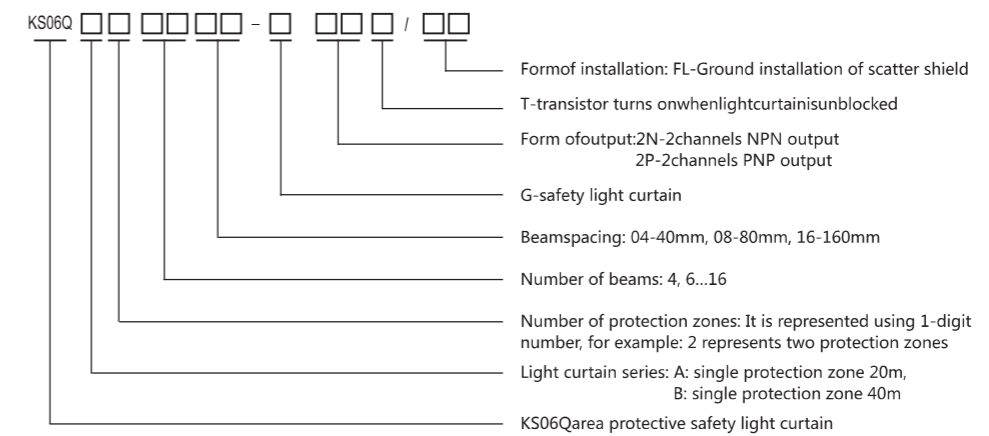
It is composed of emitter, receiver, reflector, and transmission cable.

## Product Features

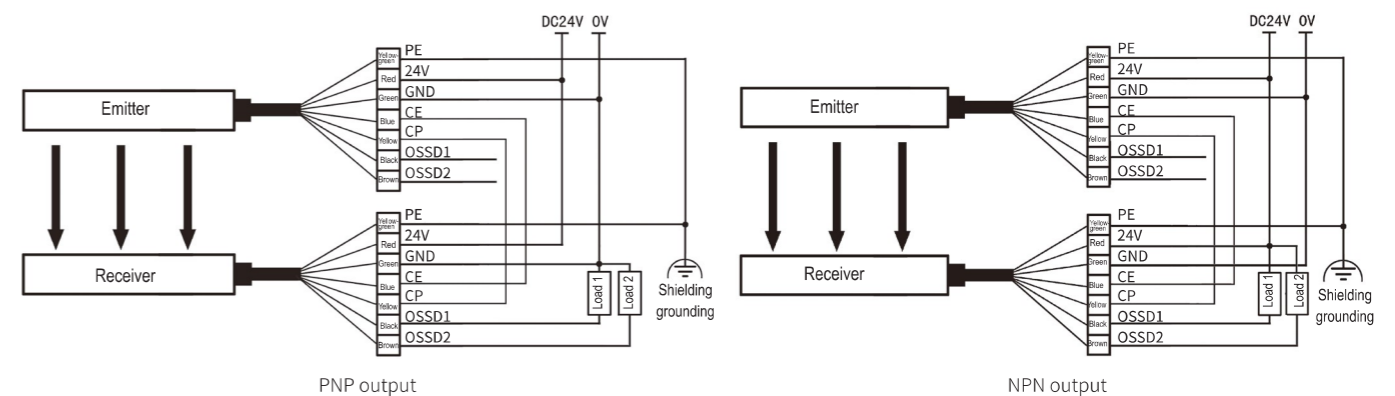
With long detection distance, it can achieve a variety of production, including single protection zone, two protection zones, three protection zones and four protection zones; Protective distance for single protection zone: -20 m for A series and -40 m for B series; It can provide 4-sided area protection, so as to simplify wiring and save costs. With strong ability to resist electromagnetic interference and light interference.



## Specifications model



## Typical wiring diagram



Note: The control signal wires OSSD1 and OSSD2 at the end of emitter are overhead.