

Technical parameters

— Table24 —

Safety level	Type 4 (GB/T 19436, IEC 61496)		
Standards	GB/T 19436.1; GB/T19436.2; 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 (special custom-made)		
Protective height	Beam spacing × (number of beams-1)		
EAA	Meet the requirements of IEC 61496-2, when the detection distance is more than 3m		
Environmental			
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 light 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; 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 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	DC12V±10%		
Consumption current	Emitter	≤300mA	
	Receiver	≤100mA	
Response time	It is ≤25ms when two sets of light curtain are connected; it is ≤38ms when three sets of light curtain are connected; it is ≤50ms when four sets of light curtain are connected; (whole machine, including the controller)		
Output characteristics	The square wave signal with a frequency of 4kHz is output during light transmitting		
Supporting controller	CPS II /CPSIII/CQ2/CQ3		

Specification table

H represents protection height, J represents the length of emitter / receiver, L represents steel pipe length, C represents the length of scatter shield (unit: mm) — Table25 —

Beam spacing: 10							Beam spacing: 20						
Detection capability 18							Detection capability 28						
Number of beams	Specifications	H	Main light curtain J1	Subsidiary light curtain J2	L	C	Number of beams	Specifications	H	Main light curtain J1	Subsidiary light curtain J2	L	C
16	KS06 () *1610	150	239	259	500	300	8	KS06 () *0820	140	239	249	500	300
20	KS06 () *2010	190	279	299	500	340	12	KS06 () *1220	220	319	329	500	380
24	KS06 () *2410	230	319	339	500	380	16	KS06 () *1620	300	399	409	750	460
28	KS06 () *2810	270	359	379	750	420	20	KS06 () *2020	380	479	489	750	540
32	KS06 () *3210	310	399	419	750	460	24	KS06 () *2420	460	559	569	1000	620
36	KS06 () *3610	350	439	459	750	500	28	KS06 () *2820	540	639	649	1000	700
40	KS06 () *4010	390	479	499	750	540	32	KS06 () *3220	620	719	729	1000	780
44	KS06 () *4410	430	519	539	750	580	36	KS06 () *3620	700	799	809	1000	860
48	KS06 () *4810	470	559	579	1000	620	40	KS06 () *4020	780	879	889	1200	940
52	KS06 () *5210	510	599	619	1000	660	44	KS06 () *4420	860	959	969	1200	1020
56	KS06 () *5610	550	639	659	1000	700	48	KS06 () *4820	940	1039	1049	1500	1100
60	KS06 () *6010	590	679	699	1000	740	52	KS06 () *5220	1020	1119	1129	1500	1180
64	KS06 () *6410	630	719	739	1000	780	56	KS06 () *5620	1100	1199	1209	1500	1260
68	KS06 () *6810	670	759	779	1000	820	60	KS06 () *6020	1180	1279	1289	1500	1340
72	KS06 () *7210	710	799	819	1000	860	64	KS06 () *6420	1260	1359	1369	1750	1420
							68	KS06 () *6820	1340	1439	1449	1750	1500
							72	KS06 () *7220	1420	1519	1529	1750	1580

Note: In the specifications and model, () represents the number of main / subsidiary light curtain, Z represents main light curtain, F1/F2/F3 represents the number of subsidiary light curtain; * represents operating range serial length, 0~3m for A series, 0~6m for B series, 0~12m for C series and 8~20m for D series.

