

Long Range Vibration Resistance Safety Curtain

[GK Series]

- Long detection distance up to 30 m
- Designed with vibration resistance structure
- Various installation bracket options



Type 2



Safety Curtain

Monitoring across extended distance

30M MAXIMUM
DETECTION DISTANCE

Reliable material on connectors

Strong and reliable connectors with aviation graded materials, ensures excellent insulation and high voltage resistance, providing stable and high-speed signal transmission for uninterrupted operation.



Maximum safety with self-diagnostic circuit

The circuit continuously monitors its operation while working. In the event of fault, the system automatically locks into a safe state, preventing accidents and always ensuring reliable protection.



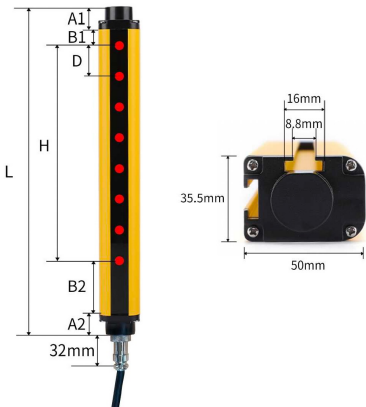
Dual slot design for flexible installation

The dual slot design allows for flexible installation in any direction, providing a convenient and quick setup to suit various applications.



Dimensions

unit: mm



A1	Upper cover	
A2	Bottom cover	
B1	Upper blind spot	
B2	Bottom blind spot	
D	Pitch axes	
H	Detection area	
L	Total length	
L	A1 + A2 + B1 + B2 + H	
H	(No. of axes - 1) * D	
A1 & A2	20 mm	
D	5	B1 = 7.5 mm, B2 = 42.5 mm
	10	B1 = 5 mm, B2 = 30 mm
	20	B1 = 10 mm, B2 = 35 mm
	40	

Ordering guide

GKXX-YY-Z

XX	Pitch axes
YY	Total length
Z	Wiring method
	J = With internal relay N.O. or N.C.
	H = Dual output signal

Overview

Code Reader

Handheld Reader

Vision Sensor

Vision System

Fiberoptic Sensor

Photoelectric Sensor

RGB Colour Sensor

Proximity Sensor

Ultrasonic Sensor

Safety Curtain

Ionizer

Safety Curtain

GK Series

Long Range Vibration Resistance Safety Curtain

5 mm pitch					
Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GK5-N16	GK5-P16	16	75	165	5
GK5-N24	GK5-P24	24	115	205	
GK5-N32	GK5-P32	32	155	245	
GK5-N40	GK5-P40	40	195	285	
GK5-N48	GK5-P48	48	235	325	
GK5-N56	GK5-P56	56	275	365	
GK5-N64	GK5-P64	64	315	405	
GK5-N72	GK5-P72	72	355	445	
GK5-N80	GK5-P80	80	395	485	
GK5-N88	GK5-P88	88	435	525	
GK5-N96	GK5-P96	96	475	565	
GK5-N104	GK5-P104	104	515	605	
GK5-N112	GK5-P112	112	555	645	
GK5-N120	GK5-P120	120	595	685	
GK5-N128	GK5-P128	128	635	725	
GK5-N136	GK5-P136	136	675	765	
GK5-N144	GK5-P144	144	715	805	
GK5-N152	GK5-P152	152	755	845	
GK5-N160	GK5-P160	160	795	885	
GK5-N168	GK5-P168	168	835	925	
GK5-N176	GK5-P176	176	875	965	
GK5-N184	GK5-P184	184	915	1005	
GK5-N192	GK5-P192	192	955	1045	
GK5-N200	GK5-P200	200	995	1085	
GK5-N208	GK5-P208	208	1035	1125	
GK5-N216	GK5-P216	216	1075	1165	
GK5-N224	GK5-P224	224	1115	1205	
GK5-N232	GK5-P232	232	1155	1245	
GK5-N240	GK5-P240	240	1195	1285	
GK5-N248	GK5-P248	248	1235	1325	
GK5-N256	GK5-P256	256	1275	1365	
GK5-N264	GK5-P264	264	1315	1405	
GK5-N272	GK5-P272	272	1355	1445	
GK5-N280	GK5-P280	280	1395	1485	
GK5-N288	GK5-P288	288	1435	1525	
GK5-N296	GK5-P296	296	1475	1565	
GK5-N304	GK5-P304	304	1515	1605	
GK5-N312	GK5-P312	312	1555	1645	
GK5-N320	GK5-P320	320	1595	1685	
GK5-N328	GK5-P328	328	1635	1725	
GK5-N336	GK5-P336	336	1675	1765	
GK5-N344	GK5-P344	344	1715	1805	
GK5-N352	GK5-P352	352	1755	1845	
GK5-N360	GK5-P360	360	1795	1885	
GK5-N368	GK5-P368	368	1835	1925	
GK5-N376	GK5-P376	376	1875	1965	
GK5-N384	GK5-P384	384	1915	2005	
GK5-N392	GK5-P392	392	1955	2045	
GK5-N400	GK5-P400	400	1995	2085	
GK5-N408	GK5-P408	408	2035	2125	
GK5-N416	GK5-P416	416	2075	2165	
GK5-N424	GK5-P424	424	2115	2205	
GK5-N432	GK5-P432	432	2155	2245	
GK5-N440	GK5-P440	440	2195	2285	
GK5-N448	GK5-P448	448	2235	2325	
GK5-N456	GK5-P456	456	2275	2365	
GK5-N464	GK5-P464	464	2315	2405	
GK5-N472	GK5-P472	472	2355	2445	
GK5-N480	GK5-P480	480	2395	2485	
GK5-N488	GK5-P488	488	2435	2525	
GK5-N496	GK5-P496	496	2475	2565	
GK5-N504	GK5-P504	504	2515	2605	
GK5-N512	GK5-P512	512	2555	2645	
GK5-N520	GK5-P520	520	2595	2685	
GK5-N528	GK5-P528	528	2635	2725	
GK5-N536	GK5-P536	536	2675	2765	
GK5-N544	GK5-P544	544	2715	2805	
GK5-N552	GK5-P552	552	2755	2845	
GK5-N560	GK5-P560	560	2795	2885	
GK5-N568	GK5-P568	568	2835	2925	
GK5-N576	GK5-P576	576	2875	2965	
GK5-N584	GK5-P584	584	2915	3005	

5 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GK5-N592	GK5-P592	592	2955	3045	5
GK5-N600	GK5-P600	600	2995	3085	
GK5-N608	GK5-P608	608	3035	3125	
GK5-N616	GK5-P616	616	3075	3165	
GK5-N624	GK5-P624	624	3115	3205	
GK5-N632	GK5-P632	632	3155	3245	
GK5-N640	GK5-P640	640	3195	3285	

10 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GK10-N8	GK10-P8	8	70	145	10
GK10-N12	GK10-P12	12	110	185	
GK10-N16	GK10-P16	16	150	225	
GK10-N20	GK10-P20	20	190	265	
GK10-N24	GK10-P24	24	230	305	
GK10-N28	GK10-P28	28	270	345	
GK10-N32	GK10-P32	32	310	385	
GK10-N36	GK10-P36	36	350	425	
GK10-N40	GK10-P40	40	390	465	
GK10-N44	GK10-P44	44	430	505	
GK10-N48	GK10-P48	48	470	545	
GK10-N52	GK10-P52	52	510	585	
GK10-N56	GK10-P56	56	550	625	
GK10-N60	GK10-P60	60	590	665	
GK10-N64	GK10-P64	64	630	705	
GK10-N68	GK10-P68	68	670	745	
GK10-N72	GK10-P72	72	710	785	
GK10-N76	GK10-P76	76	750	825	
GK10-N80	GK10-P80	80	790	865	
GK10-N84	GK10-P84	84	830	905	
GK10-N88	GK10-P88	88	870	945	
GK10-N92	GK10-P92	92	910	985	
GK10-N96	GK10-P96	96	950	1025	
GK10-N100	GK10-P100	100	990	1065	
GK10-N104	GK10-P104	104	1030	1105	
GK10-N108	GK10-P108	108	1070	1145	
GK10-N112	GK10-P112	112	1110	1185	
GK10-N116	GK10-P116	116	1150	1225	
GK10-N120	GK10-P120	120	1190	1265	
GK10-N124	GK10-P124	124	1230	1305	
GK10-N128	GK10-P128	128	1270	1345	
GK10-N132	GK10-P132	132	1310	1385	
GK10-N136	GK10-P136	136	1350	1425	
GK10-N140	GK10-P140	140	1390	1465	
GK10-N144	GK10-P144	144	1430	1505	
GK10-N148	GK10-P148	148	1470	1545	
GK10-N152	GK10-P152	152	1510	1585	
GK10-N156	GK10-P156	156	1550	1625	
GK10-N160	GK10-P160	160	1590	1665	
GK10-N164	GK10-P164	164	1630	1705	
GK10-N168	GK10-P168	168	1670	1745	
GK10-N172	GK10-P172	172	1710	1785	
GK10-N176	GK10-P176	176	1750	1825	
GK10-N180	GK10-P180	180	1790	1865	
GK10-N184	GK10-P184	184	1830	1905	
GK10-N188	GK10-P188	188	1870	1945	
GK10-N192	GK10-P192	192	1910	1985	
GK10-N196	GK10-P196	196	1950	2025	
GK10-N200	GK10-P200	200	1990	2065	
GK10-N204	GK10-P204	204	2030	2105	
GK10-N208	GK10-P208	208	2070	2145	
GK10-N212	GK10-P212	212	2110	2185	
GK10-N216	GK10-P216	216	2150	2225	
GK10-N220	GK10-P220	220	2190	2265	
GK10-N224	GK10-P224	224	2230	2305	
GK10-N228	GK10-P228	228	2270	2345	
GK10-N232	GK10-P232	232	2310	2385	
GK10-N236	GK10-P236	236	2350	2425	
GK10-N240	GK10-P240	240	2390	2465	
GK10-N244	GK10-P244	244	2430	2505	

Safety Curtain

Overview

Code Reader

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Vision Sensor

Vision System

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10 mm pitch					
Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GK10-N248	GK10-P248	248	2470	2545	10
GK10-N252	GK10-P252	252	2510	2585	
GK10-N256	GK10-P256	256	2550	2625	
GK10-N260	GK10-P260	260	2590	2665	
GK10-N264	GK10-P264	264	2630	2705	
GK10-N268	GK10-P268	268	2670	2745	
GK10-N272	GK10-P272	272	2710	2785	
GK10-N276	GK10-P276	276	2750	2825	
GK10-N280	GK10-P280	280	2790	2865	
GK10-N284	GK10-P284	284	2830	2905	
GK10-N288	GK10-P288	288	2870	2945	
GK10-N292	GK10-P292	292	2910	2985	
GK10-N296	GK10-P296	296	2950	3025	
GK10-N300	GK10-P300	300	2990	3065	
GK10-N304	GK10-P304	304	3030	3105	
GK10-N308	GK10-P308	308	3070	3145	
GK10-N312	GK10-P312	312	3110	3185	
GK10-N316	GK10-P316	316	3150	3225	
GK10-N320	GK10-P320	320	3190	3265	

20 mm pitch					
Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GK20-N4	GK20-P4	4	60	120	20
GK20-N6	GK20-P6	6	100	185	
GK20-N8	GK20-P8	8	140	225	
GK20-N10	GK20-P10	10	180	265	
GK20-N12	GK20-P12	12	220	305	
GK20-N14	GK20-P14	14	260	345	
GK20-N16	GK20-P16	16	300	385	
GK20-N18	GK20-P18	18	340	425	
GK20-N20	GK20-P20	20	380	465	
GK20-N22	GK20-P22	22	420	505	
GK20-N24	GK20-P24	24	460	545	
GK20-N26	GK20-P26	26	500	585	
GK20-N28	GK20-P28	28	540	625	
GK20-N30	GK20-P30	30	580	665	
GK20-N32	GK20-P32	32	620	705	
GK20-N34	GK20-P34	34	660	745	
GK20-N36	GK20-P36	36	700	785	
GK20-N38	GK20-P38	38	740	825	
GK20-N40	GK20-P40	40	780	865	
GK20-N42	GK20-P42	42	820	905	
GK20-N44	GK20-P44	44	860	945	
GK20-N46	GK20-P46	46	900	985	
GK20-N48	GK20-P48	48	940	1025	
GK20-N50	GK20-P50	50	980	1065	
GK20-N52	GK20-P52	52	1020	1105	
GK20-N54	GK20-P54	54	1060	1145	
GK20-N56	GK20-P56	56	1100	1185	
GK20-N58	GK20-P58	58	1140	1225	
GK20-N60	GK20-P60	60	1180	1265	
GK20-N62	GK20-P62	62	1220	1305	
GK20-N64	GK20-P64	64	1260	1345	
GK20-N66	GK20-P66	66	1300	1385	
GK20-N68	GK20-P68	68	1340	1425	
GK20-N70	GK20-P70	70	1380	1465	
GK20-N72	GK20-P72	72	1420	1505	
GK20-N74	GK20-P74	74	1460	1545	
GK20-N76	GK20-P76	76	1500	1585	
GK20-N78	GK20-P78	78	1540	1625	
GK20-N80	GK20-P80	80	1580	1665	
GK20-N82	GK20-P82	82	1620	1705	
GK20-N84	GK20-P84	84	1660	1745	
GK20-N86	GK20-P86	86	1700	1785	
GK20-N88	GK20-P88	88	1740	1825	
GK20-N90	GK20-P90	90	1780	1865	
GK20-N92	GK20-P92	92	1820	1905	
GK20-N94	GK20-P94	94	1860	1945	
GK20-N96	GK20-P96	96	1900	1985	

20 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GK20-N124	GK20-P124	124	2460	2545	20
GK20-N126	GK20-P126	126	2500	2585	
GK20-N128	GK20-P128	128	2540	2625	
GK20-N130	GK20-P130	130	2580	2665	
GK20-N132	GK20-P132	132	2620	2705	
GK20-N134	GK20-P134	134	2660	2745	
GK20-N136	GK20-P136	136	2700	2785	
GK20-N138	GK20-P138	138	2740	2825	
GK20-N140	GK20-P140	140	2780	2865	

40 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GK40-N4	GK40-P4	4	120	205	40
GK40-N6	GK40-P6	6	200	285	
GK40-N8	GK40-P8	8	280	365	
GK40-N10	GK40-P10	10	360	445	
GK40-N12	GK40-P12	12	440	525	
GK40-N14	GK40-P14	14	520	605	
GK40-N16	GK40-P16	16	600	685	
GK40-N18	GK40-P18	18	680	765	
GK40-N20	GK40-P20	20	760	845	
GK40-N22	GK40-P22	22	840	925	
GK40-N24	GK40-P24	24	920	1005	
GK40-N26	GK40-P26	26	1000	1085	
GK40-N28	GK40-P28	28	1080	1165	
GK40-N30	GK40-P30	30	1160	1245	
GK40-N32	GK40-P32	32	1240	1325	
GK40-N34	GK40-P34	34	1320	1405	
GK40-N36	GK40-P36	36	1400	1485	
GK40-N38	GK40-P38	38	1480	1565	
GK40-N40	GK40-P40	40	1560	1645	
GK40-N42	GK40-P42	42	1640	1725	
GK40-N44	GK40-P44	44	1720	1805	
GK40-N46	GK40-P46	46	1800	1885	
GK40-N48	GK40-P48	48	1880	1965	
GK40-N50	GK40-P50	50	1960	2045	
GK40-N52	GK40-P52	52	2040	2125	
GK40-N54	GK40-P54	54	2120	2205	
GK40-N56	GK40-P56	56	2200	2285	
GK40-N58	GK40-P58	58	2280	2365	
GK40-N60	GK40-P60	60	2360	2445	
GK40-N62	GK40-P62	62	2440	2525	
GK40-N64	GK40-P64	64	2520	2605	
GK40-N66	GK40-P66	66	2600	2685	
GK40-N68	GK40-P68	68	2680	2765	
GK40-N70	GK40-P70	70	2760	2845	
GK40-N72	GK40-P72	72	2840	2925	
GK40-N74	GK40-P74	74	2920	3005	
GK40-N76	GK40-P76	76	3000	3085	
GK40-N78	GK40-P78	78	3080	3165	
GK40-N80	GK40-P80	80	3160	3245	
GK40-N82	GK40-P82	82	3240	3325	
GK40-N84	GK40-P84	84	3320	3405	
GK40-N86	GK40-P86	86	3400	3485	
GK40-N88	GK40-P88	88	3480	3565	
GK40-N90	GK40-P90	90	3560	3645	
GK40-N92	GK40-P92	92	3640	3725	
GK40-N94	GK40-P94	94	3720	3805	
GK40-N96	GK40-P96	96	3800	3885	
GK40-N98	GK40-P98	98	3880	3965	
GK40-N100	GK40-P100	100	3960	4045	
GK40-N102	GK40-P102	102	4040	4125	
GK40-N104	GK40-P104	104	4120	4205	
GK40-N106	GK40-P106	106	4200	4285	
GK40-N108	GK40-P108	108	4280	4365	
GK40-N110	GK40-P110	110	4360	4445	
GK40-N112	GK40-P112	112	4440	4525	
GK40-N114	GK40-P114	114	4520	4605	
GK40-N116	GK40-P116	116	4600	4685	
GK40-N118	GK40-P118	118	4680	4765	
GK40-N120	GK40-P120	120	4760	4845	
GK40-N122	GK40-P122	122	4840	4925	

Safety Curtain

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Specifications

Model		GK5	GK10	GK20	GK40
Operating	Pitch dimension	5 mm	10 mm	20 mm	40 mm
	Detection capability	ø10, 15, 25, 45 mm			
	Scanning range	0.1 to 5 m	0.1 to 30 m		
	Light source	Infrared LED			
	Response time	(No. of axes * 0.1 ms) + 0.4 ms			
Connection method		Line synchronisation			
OSSD operation		Turns on when no interruptions are present in the detection zone			
Electrical data	Output	2 transistor outputs			
	Switching current	200 mA			
	Leakage current	Max. 1 mA			
	Residual voltage	Max. 1 V			
	Reverse polarity protection	Yes			
	Short circuit and overload protection	Yes			
Environment resistance	Enclosure rating	IP65			
	Ambient temperature	-10 to +55°C (No freezing)			
	Storage ambient temperature	-25 to +60°C (No freezing)			
	Relative humidity	20 to 85% RH (No condensation)			
	Storage humidity	20 to 85% RH (No condensation)			
	Ambient light	Incandescent lamp: 10,000 lux or less			
	Vibration	10 to 55 Hz, 0.75 mm compound amplitude, 2 hours sweep in the X, Y and Z directions			
Shock		300 m/s ² ,16 ms pulse in X, Y, and Z directions, 3 times each axis			
Power supply		10 to 30 VDC including Ripple ±10% (P-P)			
Power consumption		3 to 8 W			
Material		Aluminium alloy			

Optional Accessories



FG-187

2-way bracket



FG-186

Anti-vibration bracket



FG-185

Top bottom bracket