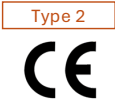


General Purpose Pigtail Connection Safety Curtain

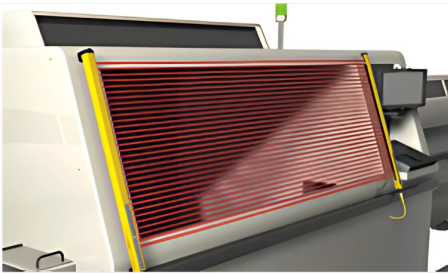
[GL Series]

- 0.1 to 3 m detecting distance
- 10 / 20 / 40 mm pitch axes
- IP65 enclosure rating
- NPN / PNP output selectable



0.1 to 3 m detection distance

3M MAXIMUM DETECTION DISTANCE



Various detection capability

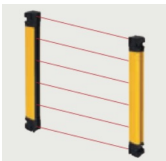
The safety curtain boasts an impressive range of detection capabilities, available in 20 mm, 30 mm, and 50 mm, ensuring unparalleled precision and adaptability for any application.



15 mm
Finger
detection



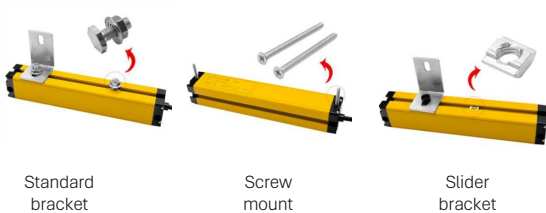
25 mm
Hand
detection



45 mm
Arm or leg
detection

Usable everywhere

Works in any location with various mounting brackets.



Standard
bracket

Screw
mount

Slider
bracket

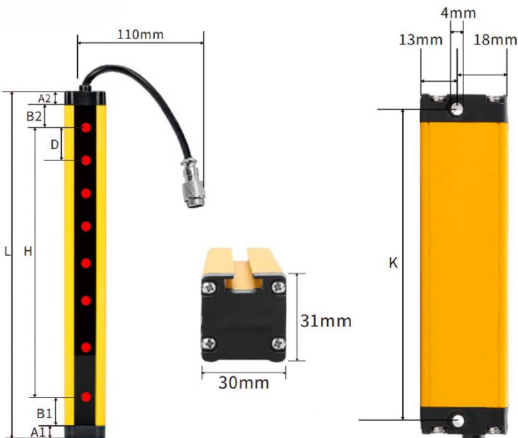
Pigtail connection type

The GL series features a pigtail connection cable, ensuring hassle-free setup.



Dimensions

unit: mm



A1	Upper cover
A2	Bottom cover
B1	Upper blind spot
B2	Bottom blind spot
K	Mounting hole gap
D	Pitch axes
H	Detection area
L	Total length

L		A1 + A2 + B1 + B2 + H
H		(No. of axes - 1) * D
K		L – 10 mm
A1 & A2		10 mm
D	10	B1 = 5 mm, B2 = 30 mm
	20	B1 = 10 mm, B2 = 30 mm
	40	

Ordering guide

GLXX-YY-Z

XX	Pitch axes
YY	Total length
Z	Wiring method
	S = With internal relay
	A = Dual output signal

GL Series variant

10 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GL10-N6	GL10-P6	6	50	105	10
GL10-N8	GL10-P8	8	70	125	
GL10-N10	GL10-P10	10	90	145	
GL10-N12	GL10-P12	12	110	165	
GL10-N14	GL10-P14	14	130	185	
GL10-N16	GL10-P16	16	150	205	
GL10-N18	GL10-P18	18	170	225	
GL10-N20	GL10-P20	20	190	245	
GL10-N22	GL10-P22	22	210	265	
GL10-N24	GL10-P24	24	230	285	
GL10-N26	GL10-P26	26	250	305	
GL10-N28	GL10-P28	28	270	325	
GL10-N30	GL10-P30	30	290	345	
GL10-N32	GL10-P32	32	310	365	
GL10-N34	GL10-P34	34	330	385	
GL10-N36	GL10-P36	36	350	405	
GL10-N38	GL10-P38	38	370	425	
GL10-N40	GL10-P40	40	390	445	
GL10-N42	GL10-P42	42	410	465	
GL10-N44	GL10-P44	44	430	485	
GL10-N46	GL10-P46	46	450	505	
GL10-N48	GL10-P48	48	470	525	
GL10-N50	GL10-P50	50	490	545	
GL10-N52	GL10-P52	52	510	565	
GL10-N54	GL10-P54	54	530	585	
GL10-N56	GL10-P56	56	550	605	
GL10-N58	GL10-P58	58	570	625	
GL10-N60	GL10-P60	60	590	645	
GL10-N62	GL10-P62	62	610	665	
GL10-N64	GL10-P64	64	630	685	
GL10-N66	GL10-P66	66	650	705	
GL10-N68	GL10-P68	68	670	725	
GL10-N70	GL10-P70	70	690	745	
GL10-N72	GL10-P72	72	710	765	
GL10-N74	GL10-P74	74	730	785	
GL10-N76	GL10-P76	76	750	805	
GL10-N78	GL10-P78	78	770	825	
GL10-N80	GL10-P80	80	790	845	
GL10-N82	GL10-P82	82	810	865	
GL10-N84	GL10-P84	84	830	885	
GL10-N86	GL10-P86	86	850	905	
GL10-N88	GL10-P88	88	870	925	
GL10-N90	GL10-P90	90	890	945	
GL10-N92	GL10-P92	92	910	965	
GL10-N94	GL10-P94	94	930	985	
GL10-N96	GL10-P96	96	950	1005	
GL10-N98	GL10-P98	98	970	1025	
GL10-N100	GL10-P100	100	990	1045	
GL10-N102	GL10-P102	102	1010	1065	
GL10-N104	GL10-P104	104	1030	1085	
GL10-N106	GL10-P106	106	1050	1105	
GL10-N108	GL10-P108	108	1070	1125	
GL10-N110	GL10-P110	110	1090	1145	
GL10-N112	GL10-P112	112	1110	1165	
GL10-N114	GL10-P114	114	1130	1185	
GL10-N116	GL10-P116	116	1150	1205	
GL10-N118	GL10-P118	118	1170	1225	
GL10-N120	GL10-P120	120	1190	1245	
GL10-N122	GL10-P122	122	1210	1265	
GL10-N124	GL10-P124	124	1230	1285	
GL10-N126	GL10-P126	126	1250	1305	
GL10-N128	GL10-P128	128	1270	1325	
GL10-N130	GL10-P130	130	1290	1345	
GL10-N132	GL10-P132	132	1310	1365	
GL10-N134	GL10-P134	134	1330	1385	
GL10-N136	GL10-P136	136	1350	1405	
GL10-N138	GL10-P138	138	1370	1425	
GL10-N140	GL10-P140	140	1390	1445	
GL10-N142	GL10-P142	142	1410	1465	

Safety Curtain

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

GL Series General Purpose Pigtail Connection Safety Curtain

10 mm pitch

- Overview
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- Ionizer

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GL10-N144	GL10-P144	144	1430	1485	10
GL10-N146	GL10-P146	146	1450	1505	
GL10-N148	GL10-P148	148	1470	1525	
GL10-N150	GL10-P150	150	1490	1545	
GL10-N152	GL10-P152	152	1510	1565	
GL10-N154	GL10-P154	154	1530	1585	
GL10-N156	GL10-P156	156	1550	1605	
GL10-N158	GL10-P158	158	1570	1625	
GL10-N160	GL10-P160	160	1590	1645	
GL10-N162	GL10-P162	162	1610	1665	
GL10-N164	GL10-P164	164	1630	1685	
GL10-N166	GL10-P166	166	1650	1705	
GL10-N168	GL10-P168	168	1670	1725	
GL10-N170	GL10-P170	170	1690	1745	
GL10-N172	GL10-P172	172	1710	1765	
GL10-N174	GL10-P174	174	1730	1785	
GL10-N176	GL10-P176	176	1750	1805	
GL10-N178	GL10-P178	178	1770	1825	
GL10-N180	GL10-P180	180	1790	1845	
GL10-N182	GL10-P182	182	1810	1865	
GL10-N184	GL10-P184	184	1830	1885	
GL10-N186	GL10-P186	186	1850	1905	
GL10-N188	GL10-P188	188	1870	1925	
GL10-N190	GL10-P190	190	1890	1945	
GL10-N192	GL10-P192	192	1910	1965	
GL10-N194	GL10-P194	194	1930	1985	
GL10-N196	GL10-P196	196	1950	2005	
GL10-N198	GL10-P198	198	1970	2025	
GL10-N200	GL10-P200	200	1990	2045	
GL10-N202	GL10-P202	202	2010	2065	
GL10-N204	GL10-P204	204	2030	2085	
GL10-N206	GL10-P206	206	2050	2105	
GL10-N208	GL10-P208	208	2070	2125	
GL10-N210	GL10-P210	210	2090	2145	
GL10-N212	GL10-P212	212	2110	2165	
GL10-N214	GL10-P214	214	2130	2185	
GL10-N216	GL10-P216	216	2150	2205	
GL10-N218	GL10-P218	218	2170	2225	
GL10-N220	GL10-P220	220	2190	2245	
GL10-N222	GL10-P222	222	2210	2265	
GL10-N224	GL10-P224	224	2230	2285	
GL10-N226	GL10-P226	226	2250	2305	
GL10-N228	GL10-P228	228	2270	2325	
GL10-N230	GL10-P230	230	2290	2345	
GL10-N232	GL10-P232	232	2310	2365	
GL10-N234	GL10-P234	234	2330	2385	
GL10-N236	GL10-P236	236	2350	2405	
GL10-N238	GL10-P238	238	2370	2425	
GL10-N240	GL10-P240	240	2390	2445	
GL10-N242	GL10-P242	242	2410	2465	
GL10-N244	GL10-P244	244	2430	2485	
GL10-N246	GL10-P246	246	2450	2505	
GL10-N248	GL10-P248	248	2470	2525	
GL10-N250	GL10-P250	250	2490	2545	
GL10-N252	GL10-P252	252	2510	2565	
GL10-N254	GL10-P254	254	2530	2585	
GL10-N256	GL10-P256	256	2550	2605	

20 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GL20-N4	GL20-P4	4	60	120	20
GL20-N6	GL20-P6	6	100	160	
GL20-N8	GL20-P8	8	140	200	
GL20-N10	GL20-P10	10	180	240	
GL20-N12	GL20-P12	12	220	280	
GL20-N14	GL20-P14	14	260	320	
GL20-N16	GL20-P16	16	300	360	
GL20-N18	GL20-P18	18	340	400	
GL20-N20	GL20-P20	20	380	440	
GL20-N22	GL20-P22	22	420	480	
GL20-N24	GL20-P24	24	460	520	
GL20-N26	GL20-P26	26	500	560	
GL20-N28	GL20-P28	28	540	600	
GL20-N30	GL20-P30	30	580	640	
GL20-N32	GL20-P32	32	620	680	
GL20-N34	GL20-P34	34	660	720	
GL20-N36	GL20-P36	36	700	760	
GL20-N38	GL20-P38	38	740	800	
GL20-N40	GL20-P40	40	780	840	
GL20-N42	GL20-P42	42	820	880	
GL20-N44	GL20-P44	44	860	920	
GL20-N46	GL20-P46	46	900	960	
GL20-N48	GL20-P48	48	940	1000	
GL20-N50	GL20-P50	50	980	1040	
GL20-N52	GL20-P52	52	1020	1080	
GL20-N54	GL20-P54	54	1060	1120	
GL20-N56	GL20-P56	56	1100	1160	
GL20-N58	GL20-P58	58	1140	1200	
GL20-N60	GL20-P60	60	1180	1240	
GL20-N62	GL20-P62	62	1220	1280	
GL20-N64	GL20-P64	64	1260	1320	
GL20-N66	GL20-P66	66	1300	1360	
GL20-N68	GL20-P68	68	1340	1400	
GL20-N70	GL20-P70	70	1380	1440	
GL20-N72	GL20-P72	72	1420	1480	
GL20-N74	GL20-P74	74	1460	1520	
GL20-N76	GL20-P76	76	1500	1560	
GL20-N78	GL20-P78	78	1540	1600	
GL20-N80	GL20-P80	80	1580	1640	
GL20-N82	GL20-P82	82	1620	1680	
GL20-N84	GL20-P84	84	1660	1720	
GL20-N86	GL20-P86	86	1700	1760	
GL20-N88	GL20-P88	88	1740	1800	
GL20-N90	GL20-P90	90	1780	1840	
GL20-N92	GL20-P92	92	1820	1880	
GL20-N94	GL20-P94	94	1860	1920	
GL20-N96	GL20-P96	96	1900	1960	
GL20-N98	GL20-P98	98	1940	2000	
GL20-N100	GL20-P100	100	1980	2040	
GL20-N102	GL20-P102	102	2020	2080	
GL20-N104	GL20-P104	104	2060	2120	
GL20-N106	GL20-P106	106	2100	2160	
GL20-N108	GL20-P108	108	2140	2200	
GL20-N110	GL20-P110	110	2180	2240	
GL20-N112	GL20-P112	112	2220	2280	
GL20-N114	GL20-P114	114	2260	2320	
GL20-N116	GL20-P116	116	2300	2360	
GL20-N118	GL20-P118	118	2340	2400	
GL20-N120	GL20-P120	120	2380	2440	
GL20-N122	GL20-P122	122	2420	2480	
GL20-N124	GL20-P124	124	2460	2520	
GL20-N126	GL20-P126	126	2500	2560	
GL20-N128	GL20-P128	128	2540	2600	
GL20-N130	GL20-P130	130	2580	2640	
GL20-N132	GL20-P132	132	2620	2680	
GL20-N134	GL20-P134	134	2660	2720	
GL20-N136	GL20-P136	136	2700	2760	
GL20-N138	GL20-P138	138	2740	2800	

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GL Series

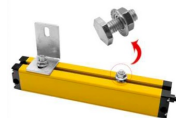
General Purpose Pigtail Connection Safety Curtain

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40 mm pitch					
Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GL40-N4	GL40-P4	4	120	180	40 mm
GL40-N6	GL40-P6	6	200	260	
GL40-N8	GL40-P8	8	280	340	
GL40-N10	GL40-P10	10	360	420	
GL40-N12	GL40-P12	12	440	500	
GL40-N14	GL40-P14	14	520	580	
GL40-N16	GL40-P16	16	600	660	
GL40-N18	GL40-P18	18	680	740	
GL40-N20	GL40-P20	20	760	820	
GL40-N22	GL40-P22	22	840	900	
GL40-N24	GL40-P24	24	920	980	
GL40-N26	GL40-P26	26	1000	1060	
GL40-N28	GL40-P28	28	1080	1140	
GL40-N30	GL40-P30	30	1160	1220	
GL40-N32	GL40-P32	32	1240	1300	
GL40-N34	GL40-P34	34	1320	1380	
GL40-N36	GL40-P36	36	1400	1460	
GL40-N38	GL40-P38	38	1480	1540	
GL40-N40	GL40-P40	40	1560	1620	
GL40-N42	GL40-P42	42	1640	1700	
GL40-N44	GL40-P44	44	1720	1780	
GL40-N46	GL40-P46	46	1800	1860	
GL40-N48	GL40-P48	48	1880	1940	
GL40-N50	GL40-P50	50	1960	2020	
GL40-N52	GL40-P52	52	2040	2100	
GL40-N54	GL40-P54	54	2120	2180	
GL40-N56	GL40-P56	56	2200	2260	
GL40-N58	GL40-P58	58	2280	2340	
GL40-N60	GL40-P60	60	2360	2420	
GL40-N62	GL40-P62	62	2440	2500	
GL40-N64	GL40-P64	64	2520	2580	
GL40-N66	GL40-P66	66	2600	2660	
GL40-N68	GL40-P68	68	2680	2740	
GL40-N70	GL40-P70	70	2760	2820	

Specifications				
Model		GL10	GL20	GL40
Operating	Pitch dimension	10 mm	20 mm	40 mm
	Detection capability	ø15, 25, 45 mm		
	Connecting method	Pre-mounted pigtail		
	Scanning range	0.1 to 3 m		
	Light source	Infrared LED		
	Response time	< 10 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		
Power supply		300 m/s ² , 16 ms pulse in X, Y, and Z directions, 3 times each axis		
Material		10 to 30 VDC including Ripple ±10% (P-P)		
		Aluminium alloy		

Optional Accessories



FG-181
Standard
bracket



FG-182
Screw
mount



FG-183
Slider
bracket