

Ultra-Slim Safety Light Curtain

[GU Series]

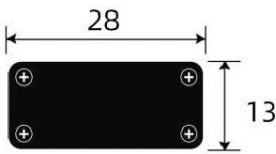
- Compact size, easy installation
- 13 x 28 mm dimension
- Type 2 and IP65 enclosure rating



Type 2
CE

Ultra-compact design, only 13 x 28 mm

Engineered for tight installations, allowing seamless integration into space-constrained applications.



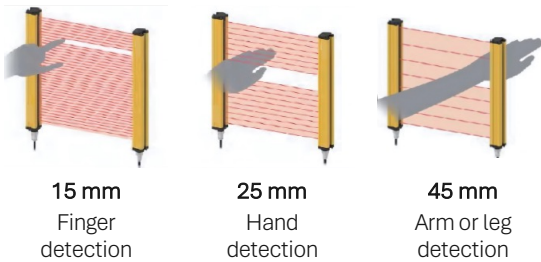
Pre-mounted pigtail connection

The GU series features a mounted connection cable, ensuring hassle-free setup.



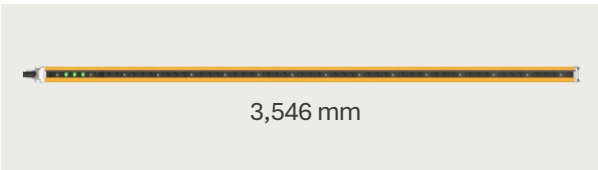
10 ms instant hazard detection

With a response time of less than 10 ms, ensures immediate detection and machine stoppage, minimizing the risk of accidents in high-speed environments.



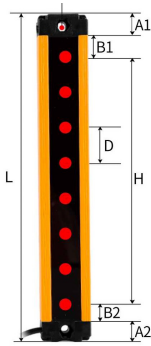
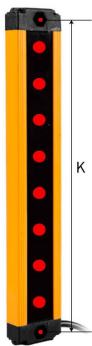
Wide 3,480 mm detection coverage

The wide detection coverage area offers wide-ranging coverage, and ensuring continuous safety, also reduces blind spots.



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

GU10 / GU20 / GU40

L	(No. of axes * D) + 26 mm
H	(No. of axes - 1) * D
A1 & A2	12 mm
B1	0.5 * D
B2	(0.5 * D) + 2 mm
K	(No. of axes * D) + 14 mm

GU5

L	(No. of axes * D) + 26 mm
H	(No. of axes - 1) * 5 mm
A1 & A2	12 mm
B1	2.5 mm
B2	27.5 mm
K	(No. of axes * D) + 37 mm

Ordering guide

GUXX-YY-Z

XX	Pitch axes
YY	Total length
Z	Wiring method
E	Dual output signal

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

GU Series

Ultra-Slim Safety Light Curtain

5 mm pitch							
	Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)	
	NPN	PNP					
Overview	GU5-N8	GU5-P8	8	35	109	5	
	GU5-N16	GU5-P16	16	75	129		
	GU5-N24	GU5-P24	24	115	169		
	GU5-N32	GU5-P32	32	155	209		
	GU5-N40	GU5-P40	40	195	249		
	GU5-N48	GU5-P48	48	235	289		
	GU5-N56	GU5-P56	56	275	329		
	GU5-N64	GU5-P64	64	315	369		
	GU5-N72	GU5-P72	72	355	409		
	GU5-N80	GU5-P80	80	395	449		
	GU5-N88	GU5-P88	88	435	489		
	GU5-N96	GU5-P96	96	475	529		
	GU5-N104	GU5-P104	104	515	569		
	GU5-N112	GU5-P112	112	555	609		
	GU5-N120	GU5-P120	120	595	649		
	GU5-N128	GU5-P128	128	635	689		
	GU5-N136	GU5-P136	136	675	729		
	GU5-N144	GU5-P144	144	715	769		
	GU5-N152	GU5-P152	152	755	809		
	GU5-N160	GU5-P160	160	795	849		
	GU5-N168	GU5-P168	168	835	889		
	GU5-N176	GU5-P176	176	875	929		
	GU5-N184	GU5-P184	184	915	969		
	GU5-N192	GU5-P192	192	955	1009		
GU5-N200	GU5-P200	200	995	1049			
GU5-N208	GU5-P208	208	1035	1089			
GU5-N216	GU5-P216	216	1075	1129			
GU5-N224	GU5-P224	224	1115	1169			
GU5-N232	GU5-P232	232	1155	1209			
GU5-N240	GU5-P240	240	1195	1249			
GU5-N248	GU5-P248	248	1235	1289			
GU5-N256	GU5-P256	256	1275	1329			
GU5-N264	GU5-P264	264	1315	1369			
GU5-N272	GU5-P272	272	1355	1409			
GU5-N280	GU5-P280	280	1395	1449			
GU5-N288	GU5-P288	288	1435	1489			
10 mm pitch							
	Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)	
	NPN	PNP					
Proximity Sensor	GU10-N4	GU10-P4	4	30	106	10	
	GU10-N6	GU10-P6	6	50	106		
Ultrasonic Sensor	GU10-N8	GU10-P8	8	70	106		
	GU10-N10	GU10-P10	10	90	126		
Safety Curtain	GU10-N12	GU10-P12	12	110	146		
	GU10-N14	GU10-P14	14	130	166		
Ionizer	GU10-N16	GU10-P16	16	150	186		
	GU10-N18	GU10-P18	18	170	206		
	GU10-N20	GU10-P20	20	190	226		
	GU10-N22	GU10-P22	22	210	246		
	GU10-N24	GU10-P24	24	230	266		
	GU10-N26	GU10-P26	26	250	286		
	GU10-N28	GU10-P28	28	270	306		
	GU10-N30	GU10-P30	30	290	326		
	GU10-N32	GU10-P32	32	310	346		
	GU10-N34	GU10-P34	34	330	366		
	GU10-N36	GU10-P36	36	350	386		
	GU10-N38	GU10-P38	38	370	406		
	GU10-N40	GU10-P40	40	390	426		
	GU10-N42	GU10-P42	42	410	446		
	GU10-N44	GU10-P44	44	430	466		
	GU10-N46	GU10-P46	46	450	486		
	GU10-N48	GU10-P48	48	470	506		
	GU10-N50	GU10-P50	50	490	526		
	GU10-N52	GU10-P52	52	510	546		
	GU10-N54	GU10-P54	54	530	566		
	GU10-N56	GU10-P56	56	550	586		
	GU10-N58	GU10-P58	58	570	606		
	GU10-N60	GU10-P60	60	590	626		
	GU10-N62	GU10-P62	62	610	646		

10 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GU10-N64	GU10-P64	64	630	666	10
GU10-N66	GU10-P66	66	650	686	
GU10-N68	GU10-P68	68	670	706	
GU10-N70	GU10-P70	70	690	726	
GU10-N72	GU10-P72	72	710	746	
GU10-N74	GU10-P74	74	730	766	
GU10-N76	GU10-P76	76	750	786	
GU10-N78	GU10-P78	78	770	806	
GU10-N80	GU10-P80	80	790	826	
GU10-N82	GU10-P82	82	810	846	
GU10-N84	GU10-P84	84	830	866	
GU10-N86	GU10-P86	86	850	886	
GU10-N88	GU10-P88	88	870	906	
GU10-N90	GU10-P90	90	890	926	
GU10-N92	GU10-P92	92	910	946	
GU10-N94	GU10-P94	94	930	966	
GU10-N96	GU10-P96	96	950	986	
GU10-N98	GU10-P98	98	970	1006	
GU10-N100	GU10-P100	100	990	1026	
GU10-N102	GU10-P102	102	1010	1046	
GU10-N104	GU10-P104	104	1030	1066	
GU10-N106	GU10-P106	106	1050	1086	
GU10-N108	GU10-P108	108	1070	1106	
GU10-N110	GU10-P110	110	1090	1126	
GU10-N112	GU10-P112	112	1110	1146	
GU10-N114	GU10-P114	114	1130	1166	
GU10-N116	GU10-P116	116	1150	1186	
GU10-N118	GU10-P118	118	1170	1206	
GU10-N120	GU10-P120	120	1190	1226	
GU10-N122	GU10-P122	122	1210	1246	
GU10-N124	GU10-P124	124	1230	1266	
GU10-N126	GU10-P126	126	1250	1286	
GU10-N128	GU10-P128	128	1270	1306	
GU10-N130	GU10-P130	130	1290	1326	
GU10-N132	GU10-P132	132	1310	1346	
GU10-N134	GU10-P134	134	1330	1366	
GU10-N136	GU10-P136	136	1350	1386	
GU10-N138	GU10-P138	138	1370	1406	
GU10-N140	GU10-P140	140	1390	1426	
GU10-N142	GU10-P142	142	1410	1446	
GU10-N144	GU10-P144	144	1430	1466	
GU10-N146	GU10-P146	146	1450	1486	
GU10-N148	GU10-P148	148	1470	1506	
GU10-N150	GU10-P150	150	1490	1526	
GU10-N152	GU10-P152	152	1510	1546	
GU10-N154	GU10-P154	154	1530	1566	
GU10-N156	GU10-P156	156	1550	1586	
GU10-N158	GU10-P158	158	1570	1606	
GU10-N160	GU10-P160	160	1590	1626	
GU10-N162	GU10-P162	162	1610	1646	
GU10-N164	GU10-P164	164	1630	1666	
GU10-N166	GU10-P166	166	1650	1686	
GU10-N168	GU10-P168	168	1670	1706	
GU10-N170	GU10-P170	170	1690	1726	
GU10-N172	GU10-P172	172	1710	1746	
GU10-N174	GU10-P174	174	1730	1766	
GU10-N176	GU10-P176	176	1750	1786	
GU10-N178	GU10-P178	178	1770	1806	
GU10-N180	GU10-P180	180	1790	1826	
GU10-N182	GU10-P182	182	1810	1846	
GU10-N184	GU10-P184	184	1830	1866	
GU10-N186	GU10-P186	186	1850	1886	
GU10-N188	GU10-P188	188	1870	1906	
GU10-N190	GU10-P190	190	1890	1926	
GU10-N192	GU10-P192	192	1910	1946	
GU10-N194	GU10-P194	194	1930	1966	
GU10-N196	GU10-P196	196	1950	1986	
GU10-N198	GU10-P198	198	1970	2006	
GU10-N200	GU10-P200	200	1990	2026	
GU10-N202	GU10-P202	202	2010	2046	
GU10-N204	GU10-P204	204	2030	2066	
GU10-N206	GU10-P206	206	2050	2086	
GU10-N208	GU10-P208	208	2070	2106	

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

Overview

Code Reader

Handheld Reader

Vision Sensor

Vision System

Fiberoptic Sensor

Photoelectric Sensor

RGB Colour Sensor

Proximity Sensor

Ultrasonic Sensor

Safety Curtain

Ionizer

GU Series Ultra-Slim Safety Light Curtain

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GU10-N210	GU10-P210	210	2090	2126	10
GU10-N212	GU10-P212	212	2110	2146	
GU10-N214	GU10-P214	214	2130	2166	
GU10-N216	GU10-P216	216	2150	2186	
GU10-N218	GU10-P218	218	2170	2206	
GU10-N220	GU10-P220	220	2190	2226	
GU10-N222	GU10-P222	222	2210	2246	
GU10-N224	GU10-P224	224	2230	2266	
GU10-N226	GU10-P226	226	2250	2286	
GU10-N228	GU10-P228	228	2270	2306	
GU10-N230	GU10-P230	230	2290	2326	
GU10-N232	GU10-P232	232	2310	2346	
GU10-N234	GU10-P234	234	2330	2366	
GU10-N236	GU10-P236	236	2350	2386	
GU10-N238	GU10-P238	238	2370	2406	
GU10-N240	GU10-P240	240	2390	2426	
GU10-N242	GU10-P242	242	2410	2446	
GU10-N244	GU10-P244	244	2430	2466	
GU10-N246	GU10-P246	246	2450	2486	
GU10-N248	GU10-P248	248	2470	2506	
GU10-N250	GU10-P250	250	2490	2526	
GU10-N252	GU10-P252	252	2510	2546	
GU10-N254	GU10-P254	254	2530	2566	
GU10-N256	GU10-P256	256	2550	2586	

20 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GU20-N4	GU20-P4	4	60	106	20
GU20-N6	GU20-P6	6	100	146	
GU20-N8	GU20-P8	8	140	186	
GU20-N10	GU20-P10	10	180	226	
GU20-N12	GU20-P12	12	220	266	
GU20-N14	GU20-P14	14	260	306	
GU20-N16	GU20-P16	16	300	346	
GU20-N18	GU20-P18	18	340	386	
GU20-N20	GU20-P20	20	380	426	
GU20-N22	GU20-P22	22	420	466	
GU20-N24	GU20-P24	24	460	506	
GU20-N26	GU20-P26	26	500	546	
GU20-N28	GU20-P28	28	540	586	
GU20-N30	GU20-P30	30	580	626	
GU20-N32	GU20-P32	32	620	666	
GU20-N34	GU20-P34	34	660	706	
GU20-N36	GU20-P36	36	700	746	
GU20-N38	GU20-P38	38	740	786	
GU20-N40	GU20-P40	40	780	826	
GU20-N42	GU20-P42	42	820	866	
GU20-N44	GU20-P44	44	860	906	
GU20-N46	GU20-P46	46	900	946	
GU20-N48	GU20-P48	48	940	986	
GU20-N50	GU20-P50	50	980	1026	
GU20-N52	GU20-P52	52	1020	1066	
GU20-N54	GU20-P54	54	1060	1106	
GU20-N56	GU20-P56	56	1100	1146	
GU20-N58	GU20-P58	58	1140	1186	
GU20-N60	GU20-P60	60	1180	1226	
GU20-N62	GU20-P62	62	1220	1266	
GU20-N64	GU20-P64	64	1260	1306	
GU20-N66	GU20-P66	66	1300	1346	
GU20-N68	GU20-P68	68	1340	1386	
GU20-N70	GU20-P70	70	1380	1426	
GU20-N72	GU20-P72	72	1420	1466	
GU20-N74	GU20-P74	74	1460	1506	
GU20-N76	GU20-P76	76	1500	1546	
GU20-N78	GU20-P78	78	1540	1586	
GU20-N80	GU20-P80	80	1580	1626	
GU20-N82	GU20-P82	82	1620	1666	
GU20-N84	GU20-P84	84	1660	1706	
GU20-N86	GU20-P86	86	1700	1746	
GU20-N88	GU20-P88	88	1740	1786	
GU20-N90	GU20-P90	90	1780	1826	
GU20-N92	GU20-P92	92	1820	1866	
GU20-N94	GU20-P94	94	1860	1906	

20 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GU20-N96	GU20-P96	96	1900	1946	20
GU20-N98	GU20-P98	98	1940	1986	
GU20-N100	GU20-P100	100	1980	2026	
GU20-N102	GU20-P102	102	2020	2066	
GU20-N104	GU20-P104	104	2060	2106	
GU20-N106	GU20-P106	106	2100	2146	
GU20-N108	GU20-P108	108	2140	2186	
GU20-N110	GU20-P110	110	2180	2226	
GU20-N112	GU20-P112	112	2220	2266	
GU20-N114	GU20-P114	114	2260	2306	
GU20-N116	GU20-P116	116	2300	2346	
GU20-N118	GU20-P118	118	2340	2386	
GU20-N120	GU20-P120	120	2380	2426	
GU20-N122	GU20-P122	122	2420	2466	
GU20-N124	GU20-P124	124	2460	2506	
GU20-N126	GU20-P126	126	2500	2546	
GU20-N128	GU20-P128	128	2540	2586	
GU20-N130	GU20-P130	130	2580	2626	
GU20-N132	GU20-P132	132	2620	2666	
GU20-N134	GU20-P134	134	2660	2706	
GU20-N136	GU20-P136	136	2700	2746	
GU20-N138	GU20-P138	138	2740	2786	
GU20-N140	GU20-P140	140	2780	2826	
GU20-N142	GU20-P142	142	2820	2866	

40 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GU40-N4	GU40-P4	4	120	186	40
GU40-N6	GU40-P6	6	200	266	
GU40-N8	GU40-P8	8	280	346	
GU40-N10	GU40-P10	10	360	426	
GU40-N12	GU40-P12	12	440	506	
GU40-N14	GU40-P14	14	520	586	
GU40-N16	GU40-P16	16	600	666	
GU40-N18	GU40-P18	18	680	746	
GU40-N20	GU40-P20	20	760	826	
GU40-N22	GU40-P22	22	840	906	
GU40-N24	GU40-P24	24	920	986	
GU40-N26	GU40-P26	26	1000	1066	
GU40-N28	GU40-P28	28	1080	1146	
GU40-N30	GU40-P30	30	1160	1226	
GU40-N32	GU40-P32	32	1240	1306	
GU40-N34	GU40-P34	34	1320	1386	
GU40-N36	GU40-P36	36	1400	1466	
GU40-N38	GU40-P38	38	1480	1546	
GU40-N40	GU40-P40	40	1560	1626	
GU40-N42	GU40-P42	42	1640	1706	
GU40-N44	GU40-P44	44	1720	1786	
GU40-N46	GU40-P46	46	1800	1866	
GU40-N48	GU40-P48	48	1880	1946	
GU40-N50	GU40-P50	50	1960	2026	
GU40-N52	GU40-P52	52	2040	2106	
GU40-N54	GU40-P54	54	2120	2186	
GU40-N56	GU40-P56	56	2200	2266	
GU40-N58	GU40-P58	58	2280	2346	
GU40-N60	GU40-P60	60	2360	2426	
GU40-N62	GU40-P62	62	2440	2506	
GU40-N64	GU40-P64	64	2520	2586	
GU40-N66	GU40-P66	66	2600	2666	
GU40-N68	GU40-P68	68	2680	2746	
GU40-N70	GU40-P70	70	2760	2826	
GU40-N72	GU40-P72	72	2840	2906	
GU40-N74	GU40-P74	74	2920	2986	
GU40-N76	GU40-P76	76	3000	3066	
GU40-N78	GU40-P78	78	3080	3146	
GU40-N80	GU40-P80	80	3160	3226	
GU40-N82	GU40-P82	82	3240	3306	
GU40-N84	GU40-P84	84	3320	3386	
GU40-N86	GU40-P86	86	3400	3466	
GU40-N88	GU40-P88	88	3480	3546	

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

Specifications

Model		GU5	GU10	GU20	GU40
Operating	Pitch dimension	5 mm	10 mm	20 mm	40 mm
	Detection capability	ø10, 15, 25, 45 mm			
	Scanning range	0.1 to 2 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			
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			