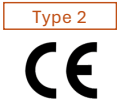


General Purpose Standard Safety Curtain

[GM Series]

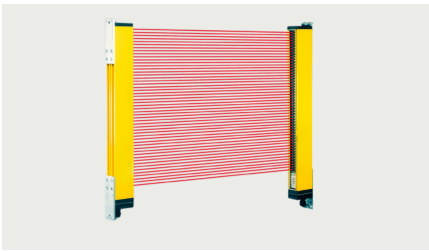
- 0.1 to 3 m detecting distance
- 5 / 10 / 20 / 40 mm pitch selection
- IP65 enclosure rating
- NPN / PNP output selectable



0.1 to 3 m detection distance

3M MAXIMUM DETECTION DISTANCE

Closest pitch axes at 5 mm



Various detection capability

The safety curtain boasts an impressive range of detection capabilities, available in 10 mm, 20 mm, 30 mm, and 50 mm, ensuring unparalleled precision and adaptability for any application.



20 mm
Finger
detection



30 mm
Hand
detection



50 mm
Arm or leg
detection

Usable everywhere

Works in any location with various mounting brackets.



Side
bracket



Top bottom
mount



Slider
bracket

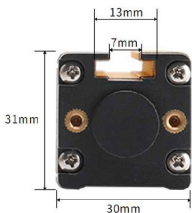
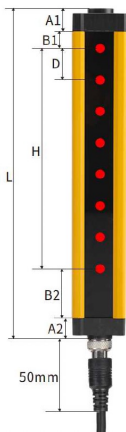
Dedicated connector port

The GM Series features a dedicated connection port, to suit various cable routing 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	13 mm
D	5 B1 = 2.5 mm, B2 = 10 mm
	10 B1 = 5 mm, B2 = 30 mm
	20 B1 = 10 mm, B2 = 30 mm
	40 B1 = 10 mm, B2 = 30 mm

Ordering guide

GMXX-YY-Z

XX	Pitch axes
YY	Total length
Z	Wiring method
	B = Internal relay N.O. or N.C.
	C = Dual output signal
	D = Internal relay N.O. and N.C. (3+6 PIN)

5 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GM5-N16	GM5-P16	16	75	113.5	5
GM5-N24	GM5-P24	24	115	153.5	
GM5-N32	GM5-P32	32	155	193.5	
GM5-N40	GM5-P40	40	195	233.5	
GM5-N48	GM5-P48	48	235	273.5	
GM5-N56	GM5-P56	56	275	313.5	
GM5-N64	GM5-P64	64	315	353.5	
GM5-N72	GM5-P72	72	355	393.5	
GM5-N80	GM5-P80	80	395	433.5	
GM5-N88	GM5-P88	88	435	473.5	
GM5-N96	GM5-P96	96	475	513.5	
GM5-N104	GM5-P104	104	515	553.5	
GM5-N112	GM5-P112	112	555	593.5	
GM5-N120	GM5-P120	120	595	633.5	
GM5-N128	GM5-P128	128	635	673.5	
GM5-N136	GM5-P136	136	675	713.5	
GM5-N144	GM5-P144	144	715	753.5	
GM5-N152	GM5-P152	152	755	793.5	
GM5-N160	GM5-P160	160	795	833.5	
GM5-N168	GM5-P168	168	835	873.5	
GM5-N176	GM5-P176	176	875	913.5	
GM5-N184	GM5-P184	184	915	953.5	
GM5-N192	GM5-P192	192	955	993.5	
GM5-N200	GM5-P200	200	995	1033.5	
GM5-N208	GM5-P208	208	1035	1073.5	
GM5-N216	GM5-P216	216	1075	1113.5	
GM5-N224	GM5-P224	224	1115	1153.5	
GM5-N232	GM5-P232	232	1155	1193.5	
GM5-N240	GM5-P240	240	1195	1233.5	
GM5-N248	GM5-P248	248	1235	1273.5	
GM5-N256	GM5-P256	256	1275	1313.5	

10 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GM10-N6	GM10-P6	6	50	111	10
GM10-N8	GM10-P8	8	70	131	
GM10-N10	GM10-P10	10	90	151	
GM10-N12	GM10-P12	12	110	171	
GM10-N14	GM10-P14	14	130	191	
GM10-N16	GM10-P16	16	150	211	
GM10-N18	GM10-P18	18	170	231	
GM10-N20	GM10-P20	20	190	251	
GM10-N22	GM10-P22	22	210	271	
GM10-N24	GM10-P24	24	230	291	
GM10-N26	GM10-P26	26	250	311	
GM10-N28	GM10-P28	28	270	331	
GM10-N30	GM10-P30	30	290	351	
GM10-N32	GM10-P32	32	310	371	
GM10-N34	GM10-P34	34	330	391	
GM10-N36	GM10-P36	36	350	411	
GM10-N38	GM10-P38	38	370	431	
GM10-N40	GM10-P40	40	390	451	
GM10-N42	GM10-P42	42	410	471	
GM10-N44	GM10-P44	44	430	491	
GM10-N46	GM10-P46	46	450	511	
GM10-N48	GM10-P48	48	470	531	
GM10-N50	GM10-P50	50	490	551	
GM10-N52	GM10-P52	52	510	571	
GM10-N54	GM10-P54	54	530	591	
GM10-N56	GM10-P56	56	550	611	
GM10-N58	GM10-P58	58	570	631	
GM10-N60	GM10-P60	60	590	651	
GM10-N62	GM10-P62	62	610	671	
GM10-N64	GM10-P64	64	630	691	
GM10-N66	GM10-P66	66	650	711	
GM10-N68	GM10-P68	68	670	731	
GM10-N70	GM10-P70	70	690	751	
GM10-N72	GM10-P72	72	710	771	
GM10-N74	GM10-P74	74	730	791	
GM10-N76	GM10-P76	76	750	811	
GM10-N78	GM10-P78	78	770	831	

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

GM Series

General Purpose Standard Safety Curtain

10 mm pitch					
Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GM10-N80	GM10-P80	80	790	851	10
GM10-N82	GM10-P82	82	810	871	
GM10-N84	GM10-P84	84	830	891	
GM10-N86	GM10-P86	86	850	911	
GM10-N88	GM10-P88	88	870	931	
GM10-N90	GM10-P90	90	890	951	
GM10-N92	GM10-P92	92	910	971	
GM10-N94	GM10-P94	94	930	991	
GM10-N96	GM10-P96	96	950	1011	
GM10-N98	GM10-P98	98	970	1031	
GM10-N100	GM10-P100	100	990	1051	
GM10-N102	GM10-P102	102	1010	1071	
GM10-N104	GM10-P104	104	1030	1091	
GM10-N106	GM10-P106	106	1050	1111	
GM10-N108	GM10-P108	108	1070	1131	
GM10-N110	GM10-P110	110	1090	1151	
GM10-N112	GM10-P112	112	1110	1171	
GM10-N114	GM10-P114	114	1130	1191	
GM10-N116	GM10-P116	116	1150	1211	
GM10-N118	GM10-P118	118	1170	1231	
GM10-N120	GM10-P120	120	1190	1251	
GM10-N122	GM10-P122	122	1210	1271	
GM10-N124	GM10-P124	124	1230	1291	
GM10-N126	GM10-P126	126	1250	1311	
GM10-N128	GM10-P128	128	1270	1331	
GM10-N130	GM10-P130	130	1290	1351	
GM10-N132	GM10-P132	132	1310	1371	
GM10-N134	GM10-P134	134	1330	1391	
GM10-N136	GM10-P136	136	1350	1411	
GM10-N138	GM10-P138	138	1370	1431	
GM10-N140	GM10-P140	140	1390	1451	
GM10-N142	GM10-P142	142	1410	1471	
GM10-N144	GM10-P144	144	1430	1491	
GM10-N146	GM10-P146	146	1450	1511	
GM10-N148	GM10-P148	148	1470	1531	
GM10-N150	GM10-P150	150	1490	1551	
GM10-N152	GM10-P152	152	1510	1571	
GM10-N154	GM10-P154	154	1530	1591	
GM10-N156	GM10-P156	156	1550	1611	
GM10-N158	GM10-P158	158	1570	1631	
GM10-N160	GM10-P160	160	1590	1651	
GM10-N162	GM10-P162	162	1610	1671	
GM10-N164	GM10-P164	164	1630	1691	
GM10-N166	GM10-P166	166	1650	1711	
GM10-N168	GM10-P168	168	1670	1731	
GM10-N170	GM10-P170	170	1690	1751	
GM10-N172	GM10-P172	172	1710	1771	
GM10-N174	GM10-P174	174	1730	1791	
GM10-N176	GM10-P176	176	1750	1811	
GM10-N178	GM10-P178	178	1770	1831	
GM10-N180	GM10-P180	180	1790	1851	
GM10-N182	GM10-P182	182	1810	1871	
GM10-N184	GM10-P184	184	1830	1891	
GM10-N186	GM10-P186	186	1850	1911	
GM10-N188	GM10-P188	188	1870	1931	
GM10-N190	GM10-P190	190	1890	1951	
GM10-N192	GM10-P192	192	1910	1971	
GM10-N194	GM10-P194	194	1930	1991	
GM10-N196	GM10-P196	196	1950	2011	
GM10-N198	GM10-P198	198	1970	2031	
GM10-N200	GM10-P200	200	1990	2051	
GM10-N202	GM10-P202	202	2010	2071	
GM10-N204	GM10-P204	204	2030	2091	
GM10-N206	GM10-P206	206	2050	2111	
GM10-N208	GM10-P208	208	2070	2131	
GM10-N210	GM10-P210	210	2090	2151	
GM10-N212	GM10-P212	212	2110	2171	
GM10-N214	GM10-P214	214	2130	2191	
GM10-N216	GM10-P216	216	2150	2211	
GM10-N218	GM10-P218	218	2170	2231	
GM10-N220	GM10-P220	220	2190	2251	

- Overview
- Code Reader
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- Safety Curtain
- Ionizer

10 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GM10-N222	GM10-P222	222	2210	2271	10
GM10-N224	GM10-P224	224	2230	2291	
GM10-N226	GM10-P226	226	2250	2311	
GM10-N228	GM10-P228	228	2270	2331	
GM10-N230	GM10-P230	230	2290	2351	
GM10-N232	GM10-P232	232	2310	2371	
GM10-N234	GM10-P234	234	2330	2391	
GM10-N236	GM10-P236	236	2350	2411	
GM10-N238	GM10-P238	238	2370	2431	
GM10-N240	GM10-P240	240	2390	2451	
GM10-N242	GM10-P242	242	2410	2471	
GM10-N244	GM10-P244	244	2430	2491	
GM10-N246	GM10-P246	246	2450	2511	
GM10-N248	GM10-P248	248	2470	2531	
GM10-N250	GM10-P250	250	2490	2551	
GM10-N252	GM10-P252	252	2510	2571	
GM10-N254	GM10-P254	254	2530	2591	
GM10-N256	GM10-P256	256	2550	2611	

20 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GM20-N4	GM20-P4	4	60	126	20
GM20-N6	GM20-P6	6	100	166	
GM20-N8	GM20-P8	8	140	206	
GM20-N10	GM20-P10	10	180	246	
GM20-N12	GM20-P12	12	220	286	
GM20-N14	GM20-P14	14	260	326	
GM20-N16	GM20-P16	16	300	366	
GM20-N18	GM20-P18	18	340	406	
GM20-N20	GM20-P20	20	380	446	
GM20-N22	GM20-P22	22	420	486	
GM20-N24	GM20-P24	24	460	526	
GM20-N26	GM20-P26	26	500	566	
GM20-N28	GM20-P28	28	540	606	
GM20-N30	GM20-P30	30	580	646	
GM20-N32	GM20-P32	32	620	686	
GM20-N34	GM20-P34	34	660	726	
GM20-N36	GM20-P36	36	700	766	
GM20-N38	GM20-P38	38	740	806	
GM20-N40	GM20-P40	40	780	846	
GM20-N42	GM20-P42	42	820	886	
GM20-N44	GM20-P44	44	860	926	
GM20-N46	GM20-P46	46	900	966	
GM20-N48	GM20-P48	48	940	1006	
GM20-N50	GM20-P50	50	980	1046	
GM20-N52	GM20-P52	52	1020	1086	
GM20-N54	GM20-P54	54	1060	1126	
GM20-N56	GM20-P56	56	1100	1166	
GM20-N58	GM20-P58	58	1140	1206	
GM20-N60	GM20-P60	60	1180	1246	
GM20-N62	GM20-P62	62	1220	1286	
GM20-N64	GM20-P64	64	1260	1326	
GM20-N66	GM20-P66	66	1300	1366	
GM20-N68	GM20-P68	68	1340	1406	
GM20-N70	GM20-P70	70	1380	1446	
GM20-N72	GM20-P72	72	1420	1486	
GM20-N74	GM20-P74	74	1460	1526	
GM20-N76	GM20-P76	76	1500	1566	
GM20-N78	GM20-P78	78	1540	1606	
GM20-N80	GM20-P80	80	1580	1646	
GM20-N82	GM20-P82	82	1620	1686	
GM20-N84	GM20-P84	84	1660	1726	
GM20-N86	GM20-P86	86	1700	1766	
GM20-N88	GM20-P88	88	1740	1806	
GM20-N90	GM20-P90	90	1780	1846	
GM20-N92	GM20-P92	92	1820	1886	
GM20-N94	GM20-P94	94	1860	1926	
GM20-N96	GM20-P96	96	1900	1966	
GM20-N98	GM20-P98	98	1940	2006	
GM20-N100	GM20-P100	100	1980	2046	

Safety Curtain

Overview

Code Reader

Handheld Reader

Vision Sensor

Vision System

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GM Series

General Purpose Standard Safety Curtain

20 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GM20-N102	GM20-P102	102	2020	2086	20
GM20-N104	GM20-P104	104	2060	2126	
GM20-N106	GM20-P106	106	2100	2166	
GM20-N108	GM20-P108	108	2140	2206	
GM20-N110	GM20-P110	110	2180	2246	
GM20-N112	GM20-P112	112	2220	2286	
GM20-N114	GM20-P114	114	2260	2326	
GM20-N116	GM20-P116	116	2300	2366	
GM20-N118	GM20-P118	118	2340	2406	
GM20-N120	GM20-P120	120	2380	2446	
GM20-N122	GM20-P122	122	2420	2486	
GM20-N124	GM20-P124	124	2460	2526	
GM20-N126	GM20-P126	126	2500	2566	
GM20-N128	GM20-P128	128	2540	2606	
GM20-N130	GM20-P130	130	2580	2646	
GM20-N132	GM20-P132	132	2620	2686	
GM20-N134	GM20-P134	134	2660	2726	
GM20-N136	GM20-P136	136	2700	2766	
GM20-N138	GM20-P138	138	2740	2806	
GM20-N140	GM20-P140	140	2780	2846	
GM20-N142	GM20-P142	142	2820	2886	

40 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
GM40-N4	GM40-P4	4	120	186	40
GM40-N6	GM40-P6	6	200	266	
GM40-N8	GM40-P8	8	280	346	
GM40-N10	GM40-P10	10	360	426	
GM40-N12	GM40-P12	12	440	506	
GM40-N14	GM40-P14	14	520	586	
GM40-N16	GM40-P16	16	600	666	
GM40-N18	GM40-P18	18	680	746	
GM40-N20	GM40-P20	20	760	826	
GM40-N22	GM40-P22	22	840	906	
GM40-N24	GM40-P24	24	920	986	
GM40-N26	GM40-P26	26	1000	1066	
GM40-N28	GM40-P28	28	1080	1146	
GM40-N30	GM40-P30	30	1160	1226	
GM40-N32	GM40-P32	32	1240	1306	
GM40-N34	GM40-P34	34	1320	1386	
GM40-N36	GM40-P36	36	1400	1466	
GM40-N38	GM40-P38	38	1480	1546	
GM40-N40	GM40-P40	40	1560	1626	
GM40-N42	GM40-P42	42	1640	1706	
GM40-N44	GM40-P44	44	1720	1786	
GM40-N46	GM40-P46	46	1800	1866	
GM40-N48	GM40-P48	48	1880	1946	
GM40-N50	GM40-P50	50	1960	2026	
GM40-N52	GM40-P52	52	2040	2106	
GM40-N54	GM40-P54	54	2120	2186	
GM40-N56	GM40-P56	56	2200	2266	
GM40-N58	GM40-P58	58	2280	2346	
GM40-N60	GM40-P60	60	2360	2426	
GM40-N62	GM40-P62	62	2440	2506	
GM40-N64	GM40-P64	64	2520	2586	
GM40-N66	GM40-P66	66	2600	2666	
GM40-N68	GM40-P68	68	2680	2746	
GM40-N70	GM40-P70	70	2760	2826	

Specifications

Model		GM5	GM10	GM20	GM40
Operating	Pitch dimension	5 mm	10 mm	20 mm	40 mm
	Detection capability	ø10, 15, 25, 45 mm			
	Scanning range	0.1 to 3 m			
	Light source	Infrared LED			
	Response time	< 10 ms			
Connection method		Line synchronisation / Optical 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	Shock	300 m/s², 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-184
Side
bracket



FG-185
Top bottom
bracket



FG-183
Slider
bracket

Overview

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Reader

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Photoelectric
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