Safety light curtain **SFG** series

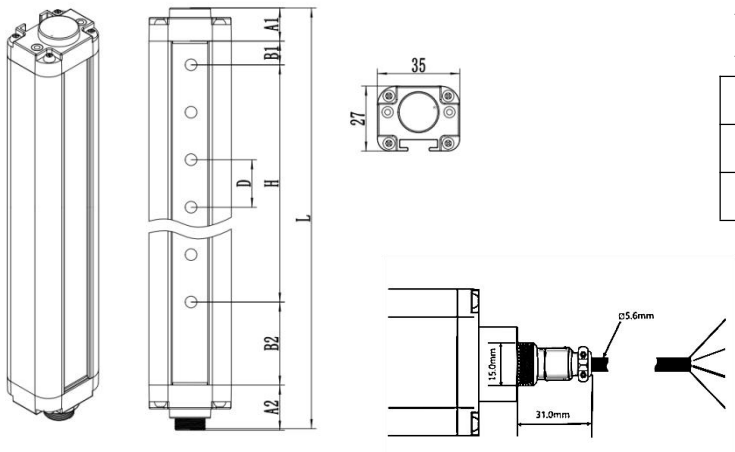
Features

- ◆ Through beam detection;
- ◆ Adopt dual-loop self-inspection output design, high safety and reliability;
- ◆ Short response time;
- ◆ Strong anti-electromagnetic interference ability;
- ◆ Compact size, sectional dimension is 35*27.

Technical specification

Supply voltage	DC 10-30V (ripple＜±10%)
Capacity	<5W
Beam space	10mm, 20mm, 40mm
Resolution	15mm, 25mm, 45mm
Beams	10mm beam gap: 8, 12, 16...144; 20mm beam gap: 4, 6, 8...72; 40mm beam gap: 4, 6, 8...36
Protective height	Protective height H= (N-1)* beam gap, N is beam quantity
Light source	940nm infrared LED
Response time	Response time=(N*0.1ms)+ 0.4ms (N is beam quantity)
Output mode (OSSD)	PNP/NPN*2 semiconductors, current＜200mA, residual voltage＜2V, leakage current <1mA
Circuit protection	Overload voltage protection,reverse polarity protection, over-current protection
Sensing distance	0.1~5m
Anti-optical interference	10000Lux (Angle of incidence>2.5°)
Synchronization	Line synchronization
Protection degree	IP65
Housing material	Aluminum alloy
Ambient temperature	Operating: -10℃~55℃ (No condensation), Storage: -30℃~70℃ (No condensation)
Ambient humidity	85%max @ 20℃
Sectional dimension	35*27mm
Connection	GX12 aviation plug (Emitter: three-core cable;Receiver:five-core cable)
Accessories	L-shaped bracket (4PCS); Slider (4PCS); M6 washer (4PCS); M6 spring washer (4PCS); M6*16 screws (4PCS); M6*8; screws (4PCS); GX12-3 cable (2.5m,PVC)*1; GX12-5 cable（3.5m,PVC）*1

Dimensions



A1: Height of upper cap (14mm)

A2: Height of bottom cap,height of aviation terminal (20mm)

Beam gap D（mm）	10	20	40
Upper stop B1（mm）	5	10	10
Bottom stop B2（mm	30	35	35

H: Protective height

L: Total height

Model selection (Customization is acceptable)

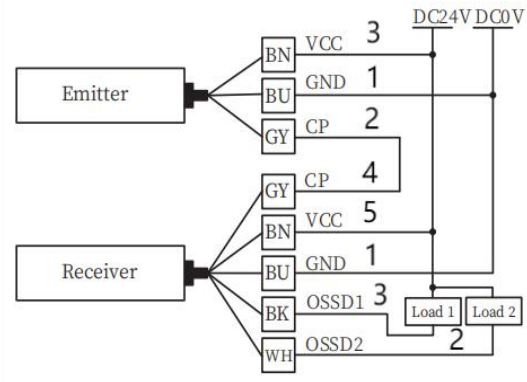
Beam gap (D)	Beam quantity	Protective height (H) H=(N-1)*D	Total height (L) L=A1+B1+A2+B2+H	NPN output mode	PNP output mode
20	4	60	114	SFG20004-TM05DNC	SFG20004-TM05DPC
20	8	140	219	SFG20008-TM05DNC	SFG20008-TM05DPC
20	12	220	299	SFG20012-TM05DNC	SFG20012-TM05DPC
20	16	300	379	SFG20016-TM05DNC	SFG20016-TM05DPC
20	20	380	459	SFG20020-TM05DNC	SFG20020-TM05DPC
20	24	460	539	SFG20024-TM05DNC	SFG20024-TM05DPC
20	28	540	619	SFG20028-TM05DNC	SFG20028-TM05DPC
20	32	620	699	SFG20032-TM05DNC	SFG20032-TM05DPC
20	36	700	779	SFG20036-TM05DNC	SFG20036-TM05DPC
20	40	780	859	SFG20040-TM05DNC	SFG20040-TM05DPC
20	44	860	939	SFG20044-TM05DNC	SFG20044-TM05DPC
20	48	940	1019	SFG20048-TM05DNC	SFG20048-TM05DPC
20	52	1020	1099	SFG20052-TM05DNC	SFG20052-TM05DPC
20	56	1100	1179	SFG20056-TM05DNC	SFG20056-TM05DPC
20	60	1180	1259	SFG20060-TM05DNC	SFG20060-TM05DPC
20	64	1260	1339	SFG20064-TM05DNC	SFG20064-TM05DPC
20	68	1340	1419	SFG20068-TM05DNC	SFG20068-TM05DPC
20	72	1420	1499	SFG20072-TM05DNC	SFG20072-TM05DPC
40	4	120	199	SFG40004-TM05DNC	SFG40004-TM05DPC
40	6	200	279	SFG40006-TM05DNC	SFG40006-TM05DPC
40	8	280	359	SFG40008-TM05DNC	SFG40008-TM05DPC
40	10	360	439	SFG40010-TM05DNC	SFG40010-TM05DPC
40	12	440	519	SFG40012-TM05DNC	SFG40012-TM05DPC
40	14	520	599	SFG40014-TM05DNC	SFG40014-TM05DPC
40	16	600	679	SFG40016-TM05DNC	SFG40016-TM05DPC
40	18	680	759	SFG40018-TM05DNC	SFG40018-TM05DPC
40	20	760	839	SFG40020-TM05DNC	SFG40020-TM05DPC
40	22	840	919	SFG40022-TM05DNC	SFG40022-TM05DPC
40	24	920	999	SFG40024-TM05DNC	SFG40024-TM05DPC
40	26	1000	1079	SFG40026-TM05DNC	SFG40026-TM05DPC
40	28	1080	1159	SFG40028-TM05DNC	SFG40028-TM05DPC
40	30	1160	1239	SFG40030-TM05DNC	SFG40030-TM05DPC
40	32	1240	1319	SFG40032-TM05DNC	SFG40032-TM05DPC
40	34	1320	1399	SFG40034-TM05DNC	SFG40034-TM05DPC
40	36	1400	1479	SFG40036-TM05DNC	SFG40036-TM05DPC

Model description:

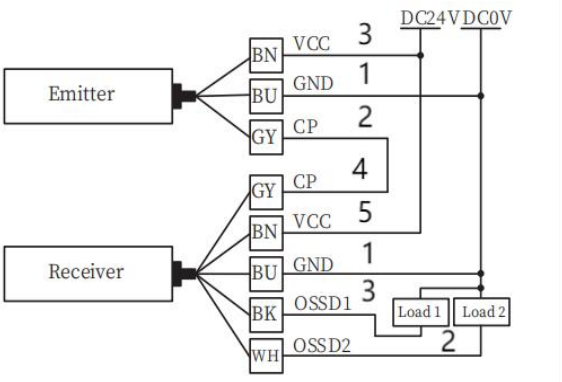
SFG 20064-T M05 DNC

- DNC: DC 10-30V, NPN, NC
- M05: Sensing distance: 5m
- T: Through beam
- 20064: 20mm beam space, 64 beam quantities
- SFG: Light curtain G series

Wiring diagram:



NPN



PNP

L1 Bracket dimensions: