



Basic Features	Working principle	Photoelectric Sensor	
	Housing	Array	
	Optical working principle	Thru-beam	
	Safety class	-	
	Standard	-	
	Light source	Infrared light,860nm (modulation)	
	Number of beams	8~32 beams	
	Beam pitch	20/40mm	
	Protection height	180~1240mm	
	Protection distance	0.1~6.0m	
	Mini. detectable object	φ28/φ48mm or more opaque object	
Electrical data	Output Mode	NPN/PNP	
	Synchronization type	Line synchronization	
	Response time	≤20ms	
	Operating voltage	12~24VDC ± 10%	
	Current consumption	Emitter: ≤200mA, Receiving: ≤200mA	
	Power consumption	3~8W	
	Residual Voltage	≤2.0V(150mA)/ <2.0V	
	Load Current	≤150mA	
	Insulation resistance	≥100MΩ between power terminal and case (500VDC)/ ± 500V 50/60Hz 60s	
	Dielectric strength	500VAC (50/60Hz), 1 minute between power terminal and case/ ± 500V 50/60Hz 60s	
	Protection circuit	Reverse polarity protection/short circuit protection/surge protection	
	Environmental conditions	Operating temperature	-10~55°C(No freezing)
		Storage temperature	-10~55°C(No freezing)
Operating humidity		35~85%RH(No condensation)	
Storage humidity		35~95%RH(No condensation)	
Ambient Illumination		Incandescent Lamp≤3000Lux;LED≤3000Lux;Sunlight≤10000Lux	
Vibration resistance		10~55Hz, dual amplitude 1.5mm, 2 hours for each X/Y/Z axis	
Protection class		IP65	
Mechanical data	Connection type	Cable	
	Dimensions	214.6~1274.6x30x29.65mm	
	Material	Aluminum	
	Weight	0.62~6.37kg	
	Accessories	Right angle mount: M12/5-pin plug cablex2	

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Light curtains

Standard type

Top emitting type

Side-emitting type

Waterproof type

Measuring type

Economical type

Safety Light Curtain

Safety Light Curtain

LiDAR scanner

IOF LiDAR scanner

MINI LiDAR scanner

Navigation LiDAR

Economical Type

BSL Series

Area

BSL20

Beam pitch	20mm					
Mini. detectable object	φ28 or more opaque object					
Protection distance	0.1~6m					
Number of beams	10 beams	12 beams	14 beams	.....	32 beams
Protection height	180mm	220mm	260mm	.....	620mm
Length of light curtain	214.6mm	254.6mm	294.6mm	.....	654.6mm
Model	NPN NC	BSL20-T1006NC	BSL20-T1206NC	BSL20-T1406NC	BSL20-T3206NC
	PNP NC	BSL20-T1006PC	BSL20-T1206PC	BSL20-T1406PC	BSL20-T3206PC

BSL40

Beam pitch	40mm					
Mini. detectable object	φ48 or more opaque object					
Protection distance	0.1~6m					
Number of beams	8 beams	10 beams	12 beams	.....	32 beams
Protection height	280mm	360mm	440mm	.....	1240mm
Length of light curtain	314.6mm	394.6mm	474.6mm	.....	1274.6mm
Model	NPN NC	BSL40-T0806NC	BSL40-T1006NC	BSL40-T1206NC	BSL40-T3206NC
	PNP NC	BSL40-T0806PC	BSL40-T1006PC	BSL40-T1206PC	BSL40-T3206PC

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Safety Light Curtain

Safety Light Curtain

LIDAR scanner

IO- LIDAR scanner

MINI LIDAR scanner

Navigation LIDAR

BSL20

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BSL20-T1006NC	BSL20-T1006PC	20	10	180	214.6
BSL20-T1206NC	BSL20-T1206PC	20	12	220	254.6
BSL20-T1406NC	BSL20-T1406PC	20	14	260	294.6
BSL20-T1606NC	BSL20-T1606PC	20	16	300	334.6
BSL20-T1806NC	BSL20-T1806PC	20	18	340	374.6
BSL20-T2006NC	BSL20-T2006PC	20	20	380	414.6
BSL20-T2206NC	BSL20-T2206PC	20	22	420	454.6
BSL20-T2406NC	BSL20-T2406PC	20	24	460	494.6
BSL20-T2606NC	BSL20-T2606PC	20	26	500	534.6
BSL20-T2806NC	BSL20-T2806PC	20	28	540	574.6
BSL20-T3006NC	BSL20-T3006PC	20	30	580	614.6
BSL20-T3206NC	BSL20-T3206PC	20	32	620	654.6

BSL40

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BSL40-T0806NC	BSL40-T0806PC	40	08	280	314.6
BSL40-T1006NC	BSL40-T1006PC	40	10	360	394.6
BSL40-T1206NC	BSL40-T1206PC	40	12	440	474.6
BSL40-T1406NC	BSL40-T1406PC	40	14	520	554.6
BSL40-T1606NC	BSL40-T1606PC	40	16	600	634.6
BSL40-T1806NC	BSL40-T1806PC	40	18	680	714.6
BSL40-T2006NC	BSL40-T2006PC	40	20	760	794.6
BSL40-T2206NC	BSL40-T2206PC	40	22	840	874.6
BSL40-T2406NC	BSL40-T2406PC	40	24	920	954.6
BSL40-T2606NC	BSL40-T2606PC	40	26	1000	1034.6
BSL40-T2806NC	BSL40-T2806PC	40	28	1080	1114.6
BSL40-T3006NC	BSL40-T3006PC	40	30	1160	1194.6
BSL40-T3206NC	BSL40-T3206PC	40	32	1240	1274.6

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Light curtains

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- Side-emitting type
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- Measuring type
- Economical type

Safety Light Curtain

- Safety Light Curtain

LiDAR scanner

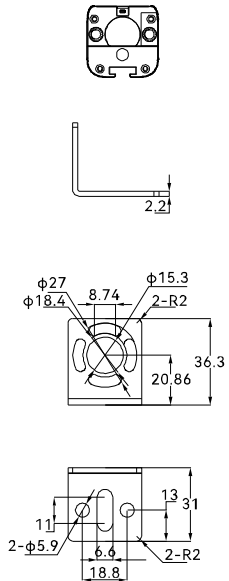
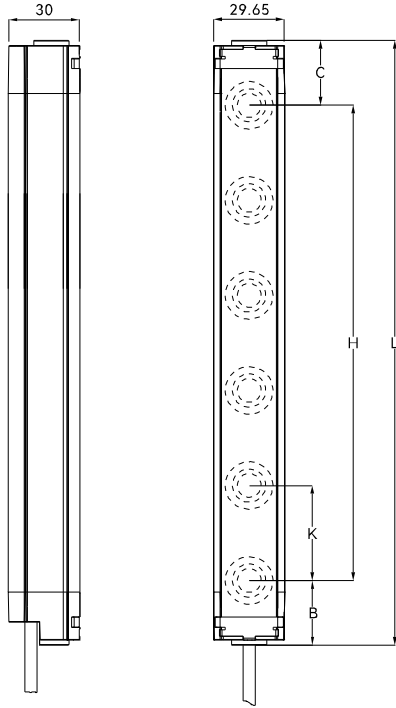
- IOF LiDAR scanner
- MINI LiDAR scanner
- Navigation LiDAR

Economical Type

Dimensions

Unit:mm

Area



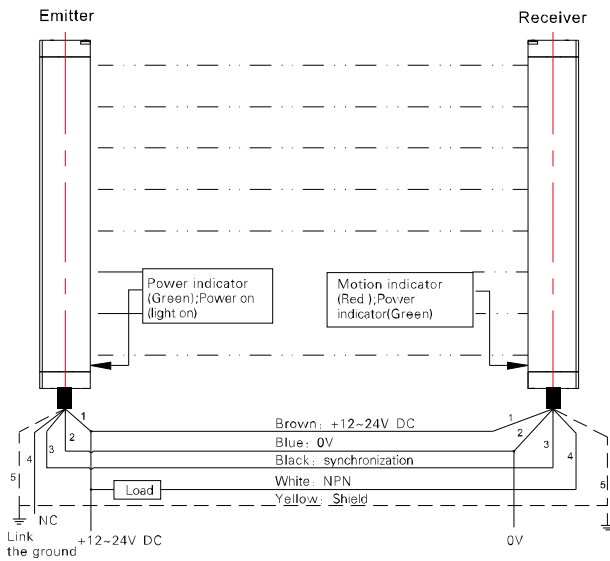
$B=C=17.3\text{mm}$
 $H=(N-1)*K$
 $L=H+B+C$

B: Upper blind height
 C: Lower blind height

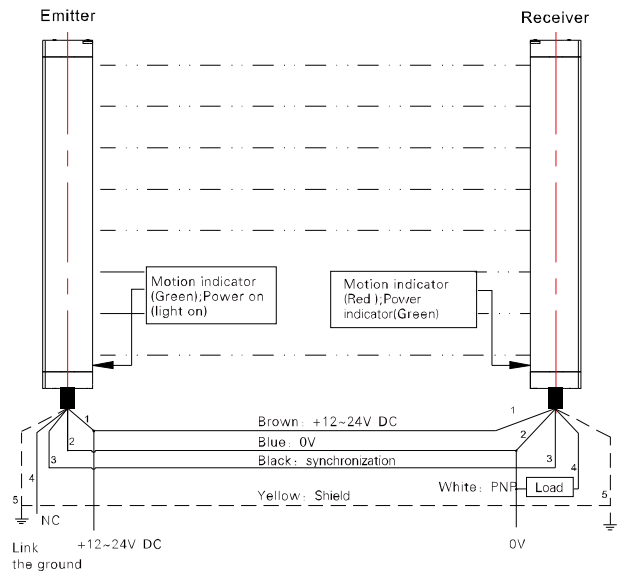
K: Beam pitch
 H: Protection height
 N: No. of beam
 L: Total light curtain height

Connection Diagram

NPN



PNP



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