



Basic Features	Working principle	Photoelectric Sensor	
	Housing	Array	
	Optical working principle	Thru-beam	
	Safety class	-	
	Standard	-	
	Light source	Infrared light (modulation)	
	Number of beams	4~32 beams	
	Beam pitch	20/40mm	
	Protection height	100~1240mm	
	Protection distance	0.3~3.0m	
	Mini. detectable object	φ28/φ48mm or more opaque object	
Electrical data	Output Mode	NPN/PNP	
	Synchronization type	Line synchronization	
	Response time	≤15ms	
	Operating voltage	24VDC ± 10%	
	Current consumption	≤200mA	
	Power consumption	3~8W	
	Residual Voltage	≤3.5V (150mA)	
	Load Current	-	
	Insulation resistance	≥100MΩ between power terminal and case (500VDC)	
	Dielectric strength	1000VAC (50/60Hz), 1 minute between power terminal and case	
	Protection circuit	Reverse polarity protection/short circuit 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	159~1292.5x15x30mm	
	Material	Aluminum	
	Weight	0.8~6.46kg	
	Accessories	Mounting bracket, mounting screws, 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

- TOF LIDAR scanner
- MINI LIDAR scanner
- Navigation LIDAR

Side-emitting Type

BCL Series

Area

BCL20

Beam pitch	20mm							
Mini. detectable object	φ28 or more opaque object							
Protection distance	0.3~3m							
Number of beams	6 beams	8 beams	10 beams	12 beams	14 beams	30 beams	
Protection height	100mm	140mm	180mm	220mm	260mm	580mm	
Length of light curtain	159mm	199mm	239mm	279mm	319mm	639mm	
Model	NPN NC	BCL20-T0603NC	BCL20-T0803NC	BCL20-T1003NC	BCL20-T1203NC	BCL20-T1403NC	BCL20-T3003NC
	PNP NC	BCL20-T0603PC	BCL20-T0803PC	BCL20-T1003PC	BCL20-T1203PC	BCL20-T1403PC	BCL20-T3003PC

Remarks: Maximum number of beams is 30.

BCL40

Beam pitch	40mm							
Mini. detectable object	φ48 or more opaque object							
Protection distance	0.3~3m							
Number of beams	4 beams	6 beams	8 beams	10 beams	12 beams	32 beams	
Protection height	120mm	200mm	280mm	360mm	440mm	1240mm	
Length of light curtain	172.5mm	252.5mm	332.5mm	412.5mm	492.5mm	1292.5mm	
Model	NPN NC	BCL40-T0403NC	BCL40-T0603NC	BCL40-T0803NC	BCL40-T1003NC	BCL40-T1203NC	BCL40-T3203NC
	PNP NC	BCL40-T0403PC	BCL40-T0603PC	BCL40-T0803PC	BCL40-T1003PC	BCL40-T1203PC	BCL40-T3203PC

Remarks: Maximum number of beams is 32.

BCL20

Model	Beam pitch	No. Beams	Detection Height	Light Curtain Height
BCL20-T0603NC	BCL20-T0603PC	20	100	159
BCL20-T0803NC	BCL20-T0803PC	20	140	199
BCL20-T1003NC	BCL20-T1003PC	20	180	239
BCL20-T1203NC	BCL20-T1203PC	20	220	279
BCL20-T1403NC	BCL20-T1403PC	20	260	319
BCL20-T1603NC	BCL20-T1603PC	20	300	359
BCL20-T1803NC	BCL20-T1803PC	20	340	399
BCL20-T2003NC	BCL20-T2003PC	20	380	439
BCL20-T2203NC	BCL20-T2203PC	20	420	479
BCL20-T2403NC	BCL20-T2403PC	20	460	519
BCL20-T2603NC	BCL20-T2603PC	20	500	559
BCL20-T2803NC	BCL20-T2803PC	20	540	599
BCL20-T3003NC	BCL20-T3003PC	20	580	639

BCL40

Model	Beam pitch	No. Beams	Detection Height	Light Curtain Height
BCL40-T0403NC	BCL40-T0403PC	40	120	172.5
BCL40-T0603NC	BCL40-T0603PC	40	200	252.5
BCL40-T0803NC	BCL40-T0803PC	40	280	332.5
BCL40-T1003NC	BCL40-T1003PC	40	360	412.5
BCL40-T1203NC	BCL40-T1203PC	40	440	492.5
BCL40-T1403NC	BCL40-T1403PC	40	520	572.5
BCL40-T1603NC	BCL40-T1603PC	40	600	652.5
BCL40-T1803NC	BCL40-T1803PC	40	680	732.5
BCL40-T2003NC	BCL40-T2003PC	40	760	812.5
BCL40-T2203NC	BCL40-T2203PC	40	840	892.5
BCL40-T2403NC	BCL40-T2403PC	40	920	972.5
BCL40-T2603NC	BCL40-T2603PC	40	1000	1052.5
BCL40-T2803NC	BCL40-T2803PC	40	1080	1132.5
BCL40-T3003NC	BCL40-T3003PC	40	1160	1212.5
BCL40-T3203NC	BCL40-T3203PC	40	1240	1292.5

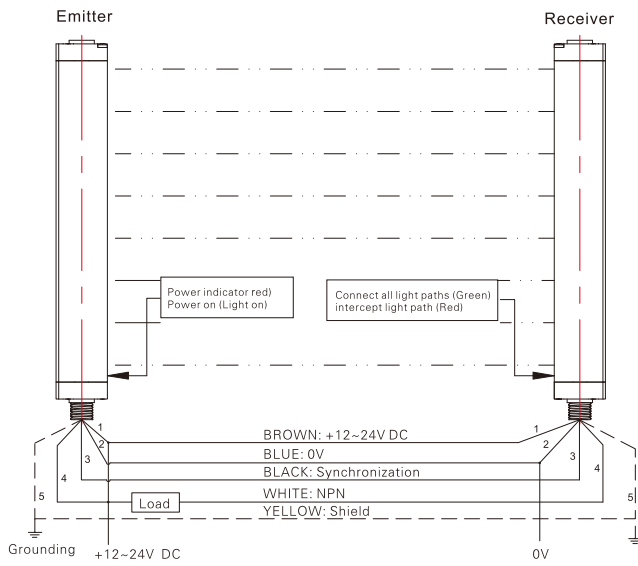
Side-emitting Type

Connection Diagram

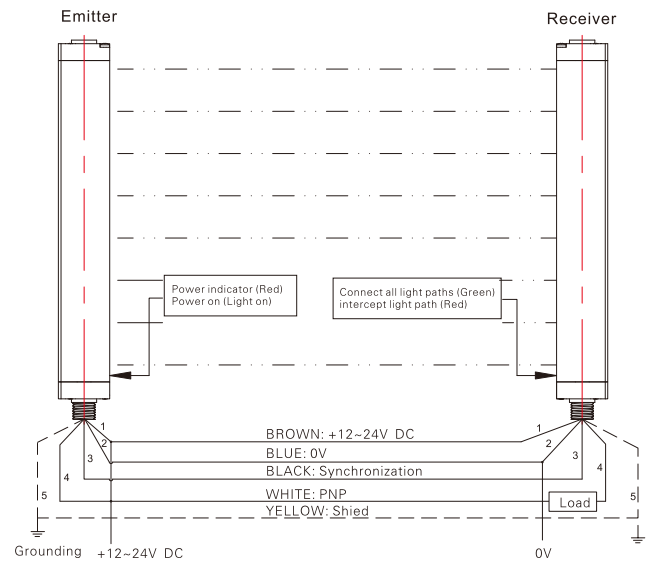
Unit:mm

Area

NPN



PNP



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

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