

Appearance

Sectional area	30X30mm
No.of beams	4~256
Protection height	120~3000mm
Protection distance	0.1~6m
Beam pitch	10/20/40mm
Min.sized detectable objects	> ϕ 14/ ϕ 25/ ϕ 45mm, opaque
Operating voltage	12~24V DC \pm 10%
Current consumption	< 200mA
Power consumption	3~8W
Output type	NPN/PNP
Synchronization type	Optical synchronization, line synchronization
Response time	\leq 10ms
Light source	Infrared LED (modulated)
Protective circuit	Reverse polarity protection, output short circuit protection, overload protection
Ambient temperature	-15 $^{\circ}$ C~+55 $^{\circ}$ C, No freezing
Ambient humidity	35~85% RH, No condensation
Anti-interference ability	10000Lux (Incident angle \geq 5 $^{\circ}$)
Insulation resistance	> 10M Ω high resistance meter based on DC500V
Vibration resistance	10~150Hz, double amplitude; 1.5mm, in each of x, y and z direction for 2 hours
Impact resistance	Acceleration: 500m/ s ² (Approx:50G); x, y and z direction (3 times each)
Degree of protection	IP65
Material	Housing: Aluminum alloy
Connection	M12 connector
Accessories	Right angle fixing frame

BKL10

Beam pitch	10mm							
Min. sized detectable objects	> ϕ 14, opaque							
Protection distance	0.1~6m							
NO.of beams	14	16	18	20	22	48	
Protection height	130mm	150mm	170mm	190mm	210mm	470mm	
Light curtain height	150mm	170mm	190mm	210mm	230mm	490mm	
Model NO.	NPN NC	BKL10-T1406NC	BKL10-T1606NC	BKL10-T1806NC	BKL10-T2006NC	BKL10-T2206NC	BKL10-T4806NC
	PNP NC	BKL10-T1406PC	BKL10-T1606PC	BKL10-T1806PC	BKL10-T2003PC	BKL10-T2206PC	BKL10-T4806PC

Remarks: maximum number of optical axes 64 axes.

BKL20

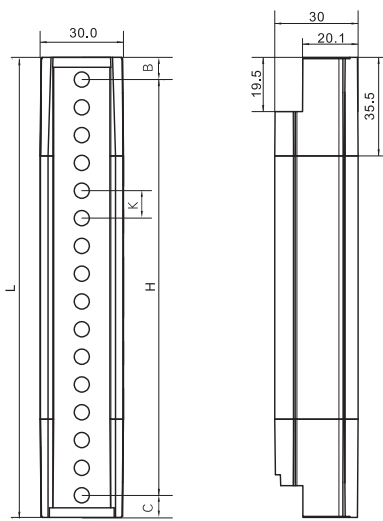
Beam pitch	20mm							
Min. sized detectable objects	> ϕ 25, opaque							
Protection distance	0.1~6m							
NO.of beams	8	10	12	14	16	48	
Protection height	140mm	180mm	220mm	260mm	300mm	940mm	
Light curtain height	170mm	210mm	250mm	290mm	330mm	970mm	
Model NO.	NPN NC	BKL20-T0806NC	BKL20-T1006NC	BKL20-T1206NC	BKL20-T1406NC	BKL20-T1606NC	BKL20-T4806NC
	PNP NC	BKL20-T0806PC	BKL20-T1006PC	BKL20-T1206PC	BKL20-T1406PC	BKL20-T1606PC	BKL20-T4806PC

Remarks: maximum number of optical axes 128 axes.

BKL40

Beam pitch	40mm							
Min. sized detectable objects	> ϕ 45, opaque							
Protection distance	0.1~6m							
NO. of beams	4	6	8	10	12	48	
Protection height	120mm	200mm	280mm	360mm	440mm	1880mm	
Light curtain height	170mm	250mm	330mm	410mm	490mm	1930mm	
Model NO.	NPN NC	BKL40-T0406NC	BKL40-T0606NC	BKL40-T0806NC	BKL40-T1006NC	BKL40-T1206NC	BKL40-T4806NC
	PNP NC	BKL40-T0406PC	BKL40-T0606PC	BKL40-T0806PC	BKL40-T1006PC	BKL40-T1206PC	BKL40-T4806PC

Dimensions(Unit:mm)



B : Upper blind
 C : Lower blind
 K : Beam pitch
 H : Protection Height
 N : No. of beams
 L : Light curtain total height

$$B = 1/2K + 3mm$$

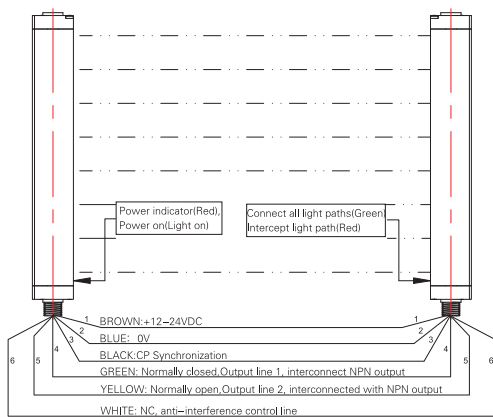
$$C = 1/2K + 3mm$$

$$H = (N - 1) * K$$

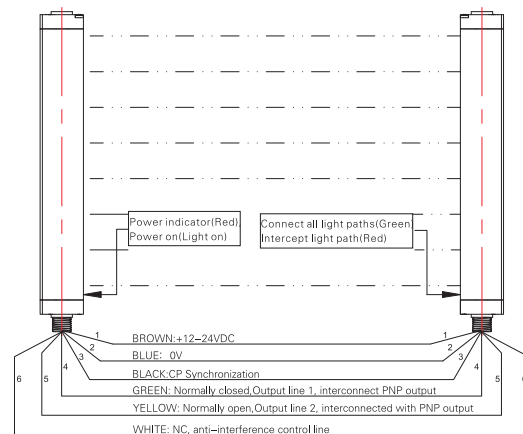
$$L = N * K + 6mm$$

Connection diagram

NPN



PNP



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Vibration
- Temperature
- Cables
- Tester

Guidance

Light curtains

- Standard type
- Top-emitting type
- Side-emitting type
- Waterproof type
- Measuring type
- Economical type

Safety Light Curtain

- Beam pitch 10mm
- Beam pitch 20mm
- Beam pitch 30mm
- Beam pitch 40mm

LIDAR scanner

- TOF LIDAR scanner
- MINI LIDAR scanner
- Navigation LIDAR