

Economical Type

BKL Series



Appearance

Sectional area	35.5X35.5mm
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	Line synchronization
Response time	$\leq$ 15ms
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	170mm	190mm	210mm	230mm	250mm		510mm
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.

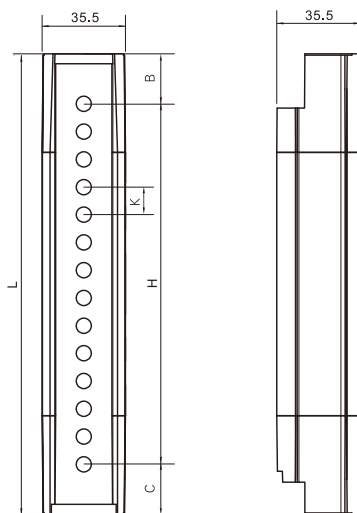
BKL20

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	180mm	220mm	240mm	300mm	340mm		980mm
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

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	140mm	240mm	320mm	400mm	480mm		1920mm	
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)

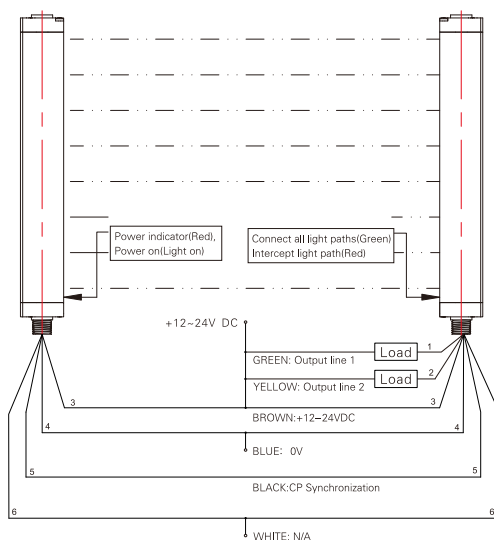


B : Upper blind
 C : Lower blind
 K : Beam pitch
 H : Protection Height
 N : No.of beams
 N : Light curtain total height

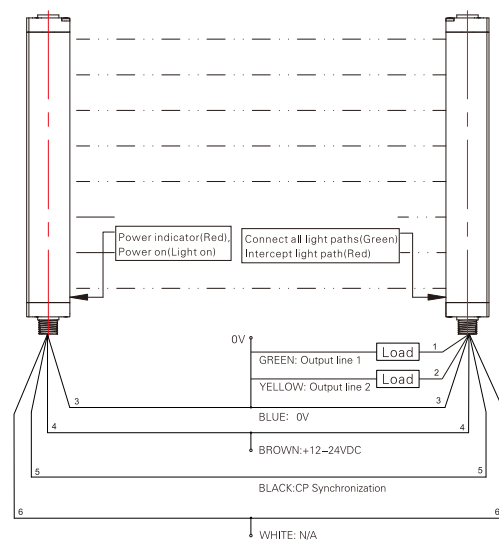
B=19mm
 C=21mm
 $H=(N-1)*K$
 $L=H+B+C$

Connection diagram

NPN



PNP



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Vision
- Code Readers
- Vibration
- Temperature
- Annexes

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