

Economical Type

BKL Series

Area



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

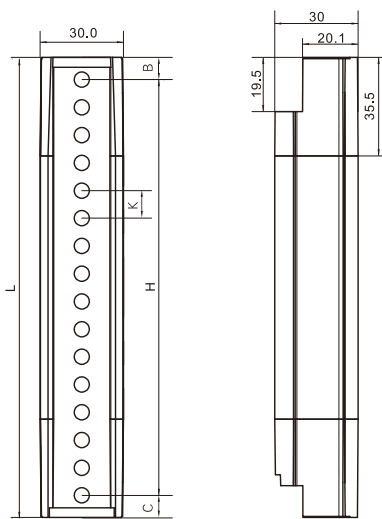
Beam pitch	20mm						
Min. sized detectable objects	> ϕ 25, opaque						
Protection distance	0.1~6m						
NO.of beams	8	10	12	14	16		48
Protection height	140mm	180mm	220mm	260mm	300mm		940mm
Light curtain height	170mm	210mm	250mm	290mm	330mm		970mm
Model NO.	NPN NC	BKL20-T0806NC	BKL20-T1006NC	BKL20-T1206NC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

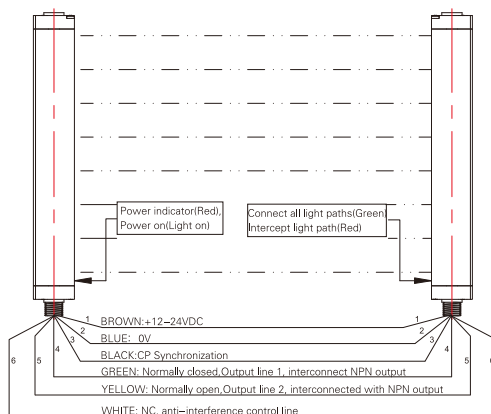


B : Upper blind
 C : Lower blind
 K : Beam pitch
 H : Protection Height
 N : No.of beams
 L : Light curtain total height

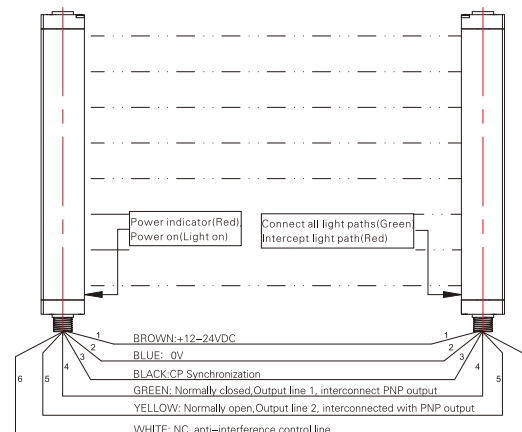
$$\begin{aligned}
 B &= 1/2K + 3\text{mm} \\
 C &= 1/2K + 3\text{mm} \\
 H &= (N-1) * K \\
 L &= N * K + 6\text{mm}
 \end{aligned}$$

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