

Световые завесы BSL/BKL

Технические характеристики

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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
Environmental conditions	Protection circuit	Reverse polarity protection/short circuit protection/surge protection
	Operating temperature	-10~55℃(No freezing)
	Storage temperature	-10~55℃(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

Economical Type

BSL Series

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

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

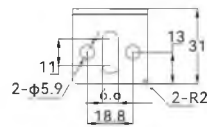
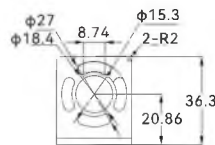
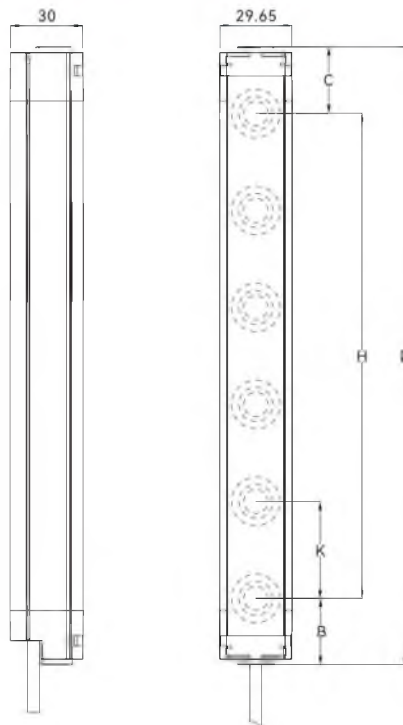
BSL40

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

Economical Type

Dimensions

Unit:mm



$$B=C=17.3\text{mm}$$

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

$$L=H+B+C$$

B : Upper blind height

C : Lower blind height

K : Beam pitch

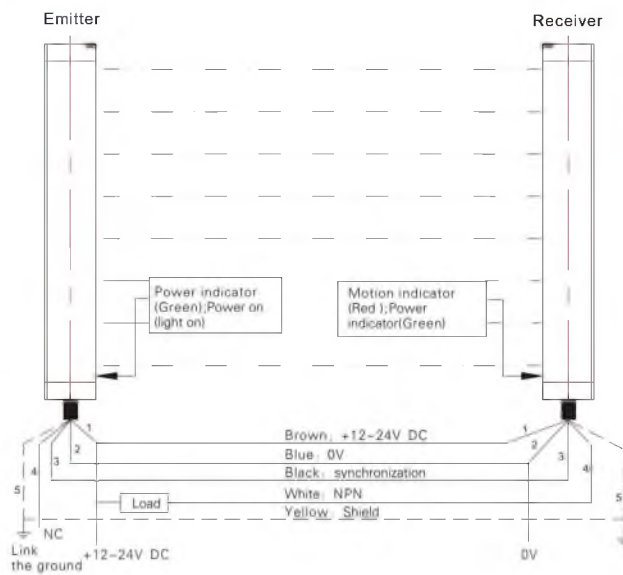
H : Protection height

N : No. of beam

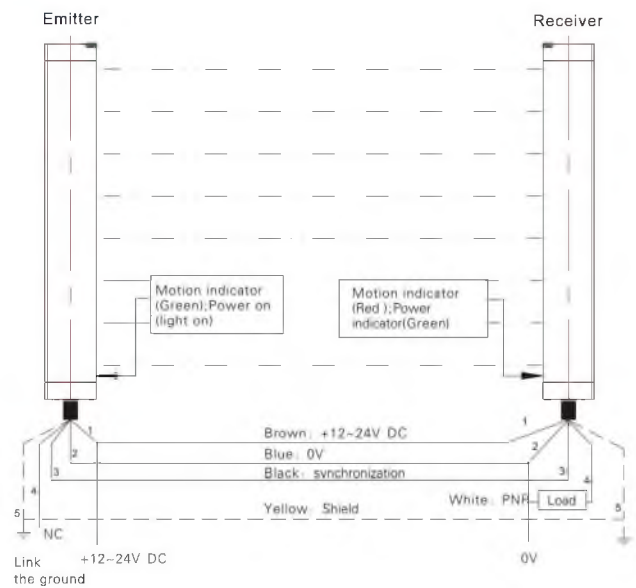
L : Total light curtain height

Connection Diagram

NPN



PNP





Basic Features	Working principle	Photoelectric Sensor
	Housing	Array
	Optical working principle	Thru-beam
	Safety class	-
	Standard	-
	Light source	Infrared light (modulation)
	Number of beams	4~48 beams
	Beam pitch	10/20/40mm
	Protection height	120~1880mm
	Protection distance	0.1~6.0m
	Mini. detectable object	φ14/φ25/φ45mm or more opaque object
Electrical data	Output Mode	NPN/PNP
	Synchronization type	Optical synchronization, Line synchronization
	Response time	≤10ms
	Operating voltage	12~24VDC ± 10%
	Current consumption	≤200mA
	Power consumption	3~8W
	Residual Voltage	≤1.5V (150mA)
	Load Current	-
	Insulation resistance	≥10MΩ 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/surge protection
Environmental conditions	Operating temperature	-15~55℃(No freezing)
	Storage temperature	-20~60℃(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	10~150Hz, dual amplitude 1.5mm, 2 hours for each X/Y/Z axis
	Protection class	IP65
Mechanical data	Connection type	Cable
	Dimensions	146~1926x30x30mm
	Material	Aluminum
	Weight	0.75~9.65kg
	Accessories	Mounting bracket, mounting screws, M12/6-pin plug cablex2

Economical Type

BKL Series

BKL10

Beam pitch		10mm					
Mini. detectable object		φ14 or more opaque object					
Protection distance		0.1~6m					
Number of beams		14 beams	16 beams	18 beams	20 beams	22 beams	48 beams
Protection height		130mm	150mm	170mm	190mm	210mm	470mm
Length of light curtain		146mm	166mm	186mm	206mm	226mm	486mm
Model	NPN NC	BKL10-T1406NC	BKL10-T1606NC	BKL10-T1806NC	BKL10-T2006NC	BKL10-T2206NC	BKL10-T4806NC
	PNP NC	BKL10-T1406PC	BKL10-T1606PC	BKL10-T1806PC	BKL10-T2006PC	BKL10-T2206PC	BKL10-T4806PC

Remarks: Maximum number of beams is 64.

BKL20

Beam pitch		20mm					
Mini. detectable object		φ25 or more opaque object					
Protection distance		0.1~6m					
Number of beams		8 beams	10 beams	12 beams	14 beams	16 beams	48 beams
Protection height		140mm	180mm	220mm	260mm	300mm	940mm
Length of light curtain		166mm	206mm	246mm	286mm	326mm	966mm
Model	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 beams is 128.

BKL40

Beam pitch		40mm					
Mini. detectable object		φ45 or more opaque object					
Protection distance		0.1~6m					
Number of beams		4 beams	6 beams	8 beams	10 beams	12 beams	48 beams
Protection height		120mm	200mm	280mm	360mm	440mm	1880mm
Length of light curtain		166mm	246mm	326mm	406mm	486mm	1926mm
Model	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

Remarks: Maximum number of beams is 48.

BKL10

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BKL10-T1406NC	BKL10-T1406PC	10	14	130	146
BKL10-T1606NC	BKL10-T1606PC	10	16	150	166
BKL10-T1806NC	BKL10-T1806PC	10	18	170	186
BKL10-T2006NC	BKL10-T2006PC	10	20	190	206
BKL10-T2206NC	BKL10-T2206PC	10	22	210	226
BKL10-T2406NC	BKL10-T2406PC	10	24	230	246
BKL10-T2606NC	BKL10-T2606PC	10	26	250	266
BKL10-T2806NC	BKL10-T2806PC	10	28	270	286
BKL10-T3006NC	BKL10-T3006PC	10	30	290	306
BKL10-T3206NC	BKL10-T3206PC	10	32	310	326
BKL10-T3406NC	BKL10-T3406PC	10	34	330	346
BKL10-T3606NC	BKL10-T3606PC	10	36	350	366
BKL10-T3806NC	BKL10-T3806PC	10	38	370	386
BKL10-T4006NC	BKL10-T4006PC	10	40	390	406
BKL10-T4206NC	BKL10-T4206PC	10	42	410	426
BKL10-T4406NC	BKL10-T4406PC	10	44	430	446
BKL10-T4606NC	BKL10-T4606PC	10	46	450	466
BKL10-T4806NC	BKL10-T4806PC	10	48	470	486

BKL20

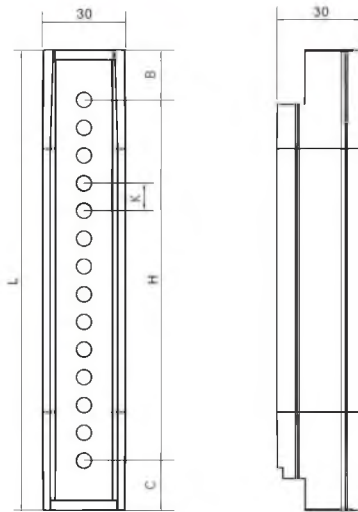
Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BKL20-T0806NC	BKL20-T0806PC	20	08	140	166
BKL20-T1006NC	BKL20-T1006PC	20	10	180	206
BKL20-T1206NC	BKL20-T1206PC	20	12	220	246
BKL20-T1406NC	BKL20-T1406PC	20	14	260	286
BKL20-T1606NC	BKL20-T1606PC	20	16	300	326
BKL20-T1806NC	BKL20-T1806PC	20	18	340	366
BKL20-T2006NC	BKL20-T2006PC	20	20	380	406
BKL20-T2206NC	BKL20-T2206PC	20	22	420	446
BKL20-T2406NC	BKL20-T2406PC	20	24	460	486
BKL20-T2606NC	BKL20-T2606PC	20	26	500	526
BKL20-T2806NC	BKL20-T2806PC	20	28	540	566
BKL20-T3006NC	BKL20-T3006PC	20	30	580	606
BKL20-T3206NC	BKL20-T3206PC	20	32	620	646
BKL20-T3406NC	BKL20-T3406PC	20	34	660	686
BKL20-T3606NC	BKL20-T3606PC	20	36	700	726
BKL20-T3806NC	BKL20-T3806PC	20	38	740	766
BKL20-T4006NC	BKL20-T4006PC	20	40	780	806
BKL20-T4206NC	BKL20-T4206PC	20	42	820	846
BKL20-T4406NC	BKL20-T4406PC	20	44	860	886
BKL20-T4606NC	BKL20-T4606PC	20	46	900	926
BKL20-T4806NC	BKL20-T4806PC	20	48	940	966

Economical Type

BKL Series

BKL40

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BKL40-T0406NC	BKL40-T0406PC	40	04	120	166
BKL40-T0606NC	BKL40-T0606PC	40	06	200	246
BKL40-T0806NC	BKL40-T0806PC	40	08	280	326
BKL40-T1006NC	BKL40-T1006PC	40	10	360	406
BKL40-T1206NC	BKL40-T1206PC	40	12	440	486
BKL40-T1406NC	BKL40-T1406PC	40	14	520	566
BKL40-T1606NC	BKL40-T1606PC	40	16	600	646
BKL40-T1806NC	BKL40-T1806PC	40	18	680	726
BKL40-T2006NC	BKL40-T2006PC	40	20	760	806
BKL40-T2206NC	BKL40-T2206PC	40	22	840	886
BKL40-T2406NC	BKL40-T2406PC	40	24	920	966
BKL40-T2606NC	BKL40-T2606PC	40	26	1000	1046
BKL40-T2806NC	BKL40-T2806PC	40	28	1080	1126
BKL40-T3006NC	BKL40-T3006PC	40	30	1160	1206
BKL40-T3206NC	BKL40-T3206PC	40	32	1240	1286
BKL40-T3406NC	BKL40-T3406PC	40	34	1320	1366
BKL40-T3606NC	BKL40-T3606PC	40	36	1400	1446
BKL40-T3806NC	BKL40-T3806PC	40	38	1480	1526
BKL40-T4006NC	BKL40-T4006PC	40	40	1560	1606
BKL40-T4206NC	BKL40-T4206PC	40	42	1640	1686
BKL40-T4406NC	BKL40-T4406PC	40	44	1720	1766
BKL40-T4606NC	BKL40-T4606PC	40	46	1800	1846
BKL40-T4806NC	BKL40-T4806PC	40	48	1880	1926



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

$$B = 1/2K + 3\text{mm}$$

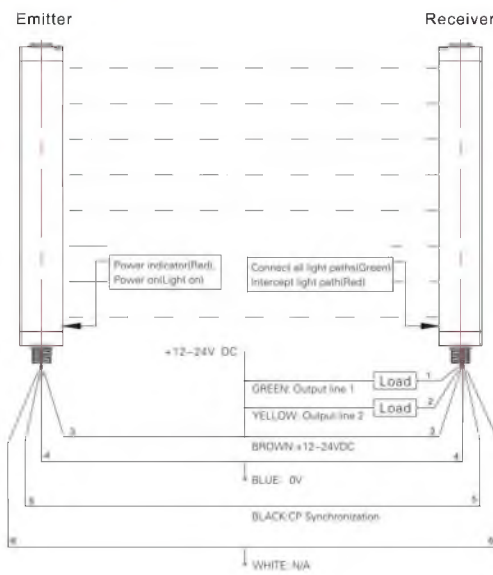
$$C = 1/2K + 3\text{mm}$$

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

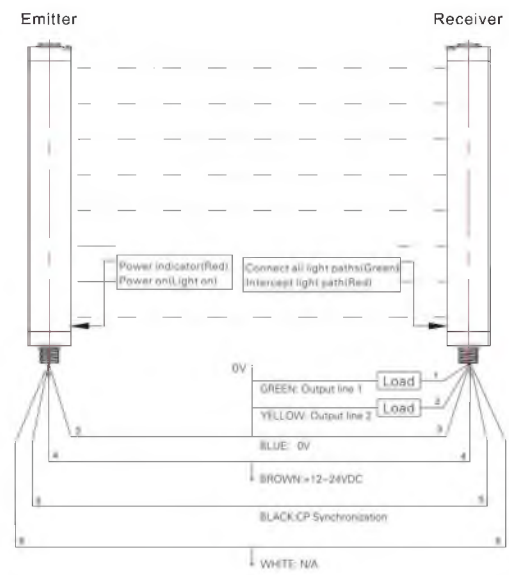
$$L = H + B + C$$

Connection Diagram

NPN



PNP



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