

Световые завесы BCL/BPL

Технические характеристики

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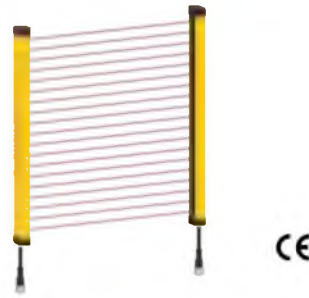
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Basic Features	Working principle	Photoelectric Sensor
	Housing	Array
	Optical working principle	Thru-beam
	Safety class	-
	Standard	-
	Light source	Infrared light (modulation)
	Number of beams	4~32 beams
	Beam pitch	20/40mm
	Protection height	100~1240mm
	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
Environmental conditions	Protection circuit	Reverse polarity protection/short circuit protection
	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

Side-emitting Type

BCL Series

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.

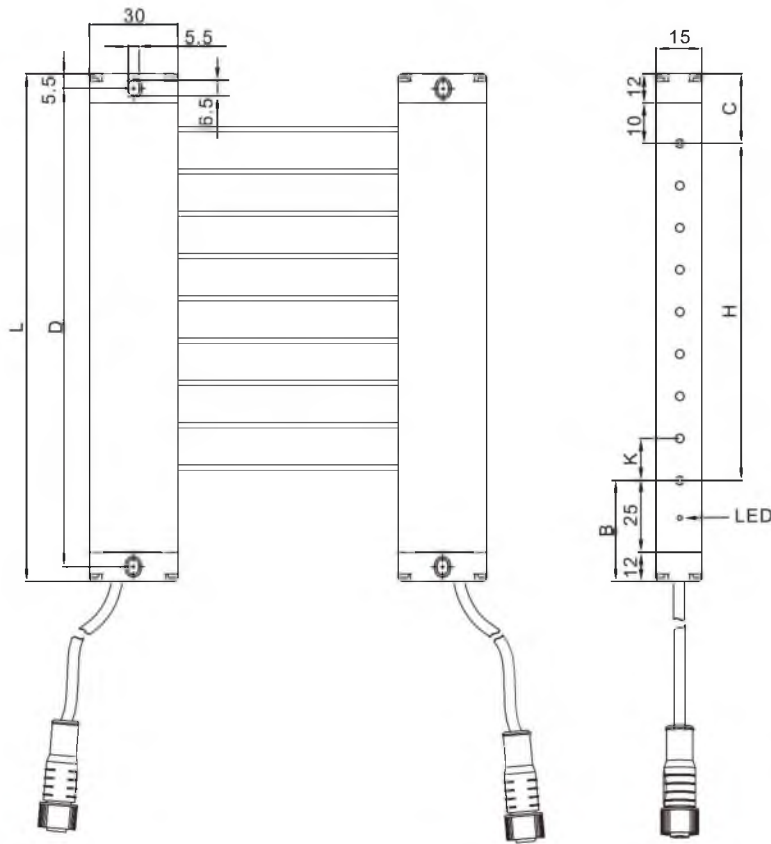
BCL20

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BCL20-T0603NC	BCL20-T0603PC	20	06	100	159
BCL20-T0803NC	BCL20-T0803PC	20	08	140	199
BCL20-T1003NC	BCL20-T1003PC	20	10	180	239
BCL20-T1203NC	BCL20-T1203PC	20	12	220	279
BCL20-T1403NC	BCL20-T1403PC	20	14	260	319
BCL20-T1603NC	BCL20-T1603PC	20	16	300	359
BCL20-T1803NC	BCL20-T1803PC	20	18	340	399
BCL20-T2003NC	BCL20-T2003PC	20	20	380	439
BCL20-T2203NC	BCL20-T2203PC	20	22	420	479
BCL20-T2403NC	BCL20-T2403PC	20	24	460	519
BCL20-T2603NC	BCL20-T2603PC	20	26	500	559
BCL20-T2803NC	BCL20-T2803PC	20	28	540	599
BCL20-T3003NC	BCL20-T3003PC	20	30	580	639

BCL40

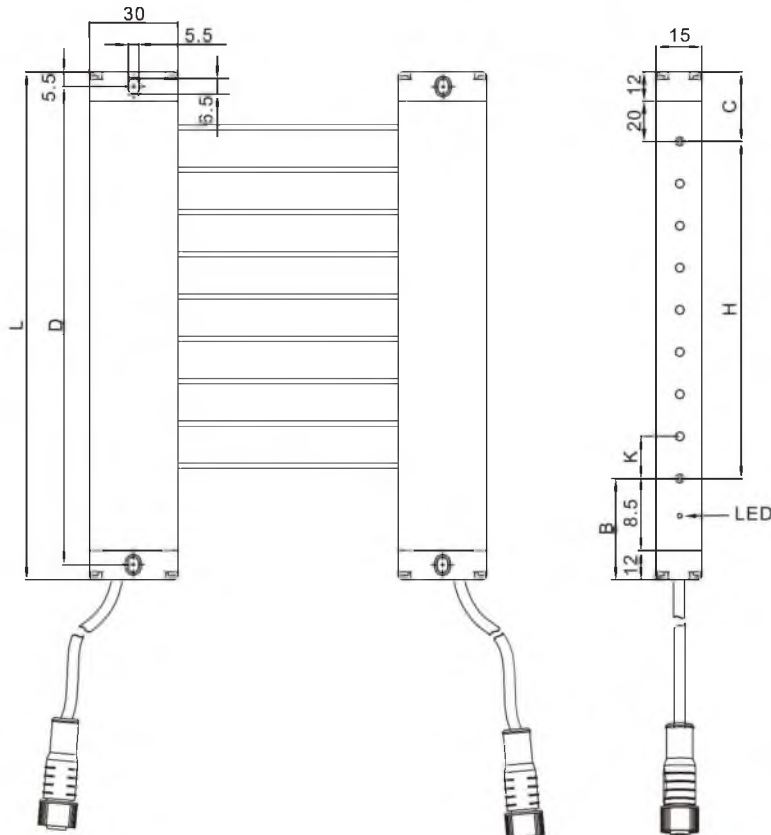
Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BCL40-T0403NC	BCL40-T0403PC	40	04	120	172.5
BCL40-T0603NC	BCL40-T0603PC	40	06	200	252.5
BCL40-T0803NC	BCL40-T0803PC	40	08	280	332.5
BCL40-T1003NC	BCL40-T1003PC	40	10	360	412.5
BCL40-T1203NC	BCL40-T1203PC	40	12	440	492.5
BCL40-T1403NC	BCL40-T1403PC	40	14	520	572.5
BCL40-T1603NC	BCL40-T1603PC	40	16	600	652.5
BCL40-T1803NC	BCL40-T1803PC	40	18	680	732.5
BCL40-T2003NC	BCL40-T2003PC	40	20	760	812.5
BCL40-T2203NC	BCL40-T2203PC	40	22	840	892.5
BCL40-T2403NC	BCL40-T2403PC	40	24	920	972.5
BCL40-T2603NC	BCL40-T2603PC	40	26	1000	1052.5
BCL40-T2803NC	BCL40-T2803PC	40	28	1080	1132.5
BCL40-T3003NC	BCL40-T3003PC	40	30	1160	1212.5
BCL40-T3203NC	BCL40-T3203PC	40	30	1240	1292.5

BCL20



- H: Protection Height= (N-1) K
- L: Light curtain total height=H+59
- N: No.of beams
- K: Beam pitch=20
- B: Lower blind height=37
- C: Upper blind height=22
- D: Mounting hole spacing= (L-11)

BCL40



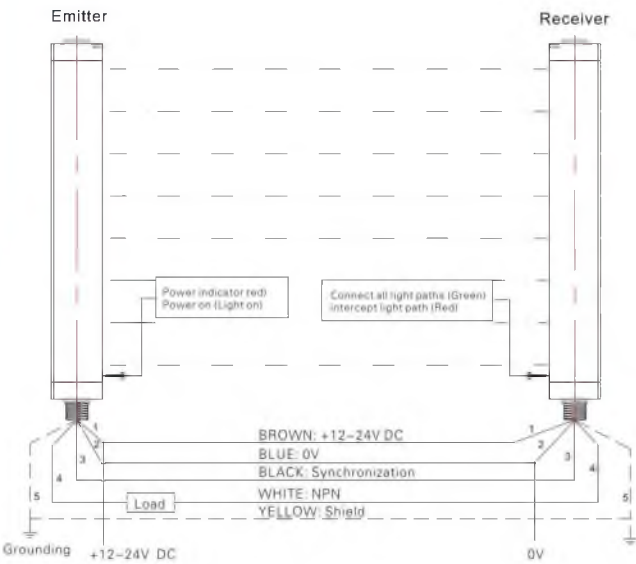
- H: Protection Height= (N-1) K
- L: Light curtain total height=H+52.5
- N: No.of beams
- K: Beam pitch=40
- B: Lower blind height=20.5
- C: Upper blind height=32
- D: Mounting hole spacing= (L-11)

Side-emitting Type

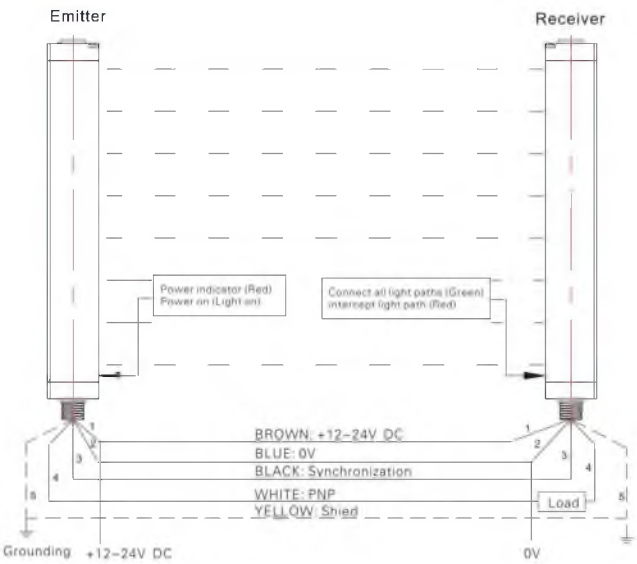
Connection Diagram

Unit:mm

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	4~32beams					
	Beam pitch	10/14/20/25/30/40mm					
	Protection height	50~1240mm					
	Protection distance	0.3~3.0m					
	Mini. detectable object	φ15/φ19/φ25/φ30/φ35/φ45mm 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	-					
	Load Current	-					
	Insulation resistance	≥100MΩ between power terminal and case (500VDC)					
	Dielectric strength	-					
Environmental conditions	Protection circuit	Reverse polarity protection/short circuit protection					
	Operating temperature	-10~55℃(No freezing)					
	Storage temperature	-15~60℃(No freezing)					
	Operating humidity	35~85%RH(No condensation)					
	Storage humidity	35~95%RH(No condensation)					
	Ambient Illumination	-					
	Vibration resistance	10~55Hz, dual amplitude 1.5mm, 2 hours for each X/Y/Z axis					
	Protection class	IP68					
Mechanical data	Connection type	Cable					
	Dimensions	118~1317xØ48xØ48mm					
	Material	Aluminum					
	Weight	0.59~6.59kg					
	Accessories	Mounting bracket, mounting screws, M12/5-pin plug cablex2					

BPL10

Beam pitch	10mm						
Mini. detectable object	φ15 or more opaque object						
Protection distance	0.3~3m						
Number of beams	6 beams	8 beams	10 beams	12 beams	14 beams	... ..	32 beams
Protection height	50mm	70mm	90mm	110mm	130mm	... ..	310mm
Length of light curtain	118mm	138mm	158mm	178mm	198mm	... ..	378mm
Model	NPN NC	BPL10-T0603NC	BPL10-T0803NC	BPL10-T1003NC	BPL10-T1203NC	BPL10-T1403NC	BPL10-T3203NC
	PNP NC	BPL10-T0603PC	BPL10-T0803PC	BPL10-T1003PC	BPL10-T1203PC	BPL10-T1403PC	BPL10-T3203PC

Waterproof Type

BPL series

BPL14

Beam pitch	14mm						
Mini. detectable object	φ19 or more opaque object						
Protection distance	0.3~3m						
Number of beams	6 beams	8 beams	10 beams	12 beams	14 beams	.....	32 beams
Protection height	70mm	98mm	126mm	154mm	182mm	.....	434mm
Length of light curtain	140mm	168mm	196mm	224mm	252mm	.....	504mm
Model	NPN NC	BPL14-T0603NC	BPL14-T0803NC	BPL14-T1003NC	BPL14-T1203NC	BPL14-T1403NC	BPL14-T3203NC
	PNP NC	BPL14-T0603PC	BPL14-T0803PC	BPL14-T1003PC	BPL14-T1203PC	BPL14-T1403PC	BPL14-T3203PC

BPL20

Beam pitch	20mm						
Mini. detectable object	φ25 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	60mm	100mm	140mm	180mm	220mm	.....	620mm
Length of light curtain	127mm	167mm	207mm	247mm	287mm	.....	687mm
Model	NPN NC	BPL20-T0403NC	BPL20-T0603NC	BPL20-T0803NC	BPL20-T1003NC	BPL20-T1203NC	BPL20-T3203NC
	PNP NC	BPL20-T0403PC	BPL20-T0603PC	BPL20-T0803PC	BPL20-T1003PC	BPL20-T1203PC	BPL20-T3203PC

BPL25

Beam pitch	25mm						
Mini. detectable object	φ30 or more opaque object						
Protection distance	0.3~3m						
Number of beams	6 beams	8 beams	10 beams	12 beams	14 beams	.....	32 beams
Protection height	125mm	175mm	225mm	275mm	325mm	.....	775mm
Length of light curtain	194.5mm	244.5mm	294.5mm	344.5mm	394.5mm	.....	844.5mm
Model	NPN NC	BPL25-T0603NC	BPL25-T0803NC	BPL25-T1003NC	BPL25-T1203NC	BPL25-T1403NC	BPL25-T3203NC
	PNP NC	BPL25-T0603PC	BPL25-T0803PC	BPL25-T1003PC	BPL25-T1203PC	BPL25-T1403PC	BPL25-T3203PC

BPL30

Beam pitch	30mm						
Mini. detectable object	φ35 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	90mm	150mm	210mm	270mm	330mm	.....	930mm
Length of light curtain	162mm	222mm	282mm	342mm	402mm	.....	1002mm
Model	NPN NC	BPL30-T0403NC	BPL30-T0603NC	BPL30-T0803NC	BPL30-T1003NC	BPL30-T1203NC	BPL30-T3203NC
	PNP NC	BPL30-T0403PC	BPL30-T0603PC	BPL30-T0803PC	BPL30-T1003PC	BPL30-T1203PC	BPL30-T3203PC

BPL40

Beam pitch	40mm						
Mini. detectable object	φ45 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	197mm	277mm	357mm	437mm	517mm	.....	1317mm
Model	NPN NC	BPL40-T0403NC	BPL40-T0603NC	BPL40-T0803NC	BPL40-T1003NC	BPL40-T1203NC	BPL40-T3203NC
	PNP NC	BPL40-T0403PC	BPL40-T0603PC	BPL40-T0803PC	BPL40-T1003PC	BPL40-T1203PC	BPL40-T3203PC

BPL10

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BPL10-T0603NC	BPL10-T0603PC	10	06	50	118
BPL10-T0803NC	BPL10-T0803PC	10	08	70	138
BPL10-T1003NC	BPL10-T1003PC	10	10	90	158
BPL10-T1203NC	BPL10-T1203PC	10	12	110	178
BPL10-T1403NC	BPL10-T1403PC	10	14	130	198
BPL10-T1603NC	BPL10-T1603PC	10	16	150	218
BPL10-T1803NC	BPL10-T1803PC	10	18	170	238
BPL10-T2003NC	BPL10-T2003PC	10	20	190	258
BPL10-T2203NC	BPL10-T2203PC	10	22	210	278
BPL10-T2403NC	BPL10-T2403PC	10	24	230	298
BPL10-T2603NC	BPL10-T2603PC	10	26	250	318
BPL10-T2803NC	BPL10-T2803PC	10	28	270	338
BPL10-T3003NC	BPL10-T3003PC	10	30	290	358
BPL10-T3203NC	BPL10-T3203PC	10	32	310	378

BPL14

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BPL14-T0603NC	BPL14-T0603PC	14	06	70	140
BPL14-T0803NC	BPL14-T0803PC	14	08	98	168
BPL14-T1003NC	BPL14-T1003PC	14	10	126	196
BPL14-T1203NC	BPL14-T1203PC	14	12	154	224
BPL14-T1403NC	BPL14-T1403PC	14	14	182	252
BPL14-T1603NC	BPL14-T1603PC	14	16	210	280
BPL14-T1803NC	BPL14-T1803PC	14	18	238	308
BPL14-T2003NC	BPL14-T2003PC	14	20	266	336
BPL14-T2203NC	BPL14-T2203PC	14	22	294	364
BPL14-T2403NC	BPL14-T2403PC	14	24	322	392
BPL14-T2603NC	BPL14-T2603PC	14	26	350	420
BPL14-T2803NC	BPL14-T2803PC	14	28	378	448
BPL14-T3003NC	BPL14-T3003PC	14	30	406	476
BPL14-T3203NC	BPL14-T3203PC	14	32	434	504

BPL20

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BPL20-T0403NC	BPL20-T0403PC	20	04	60	127
BPL20-T0603NC	BPL20-T0603PC	20	06	100	167
BPL20-T0803NC	BPL20-T0803PC	20	08	140	207
BPL20-T1003NC	BPL20-T1003PC	20	10	180	247
BPL20-T1203NC	BPL20-T1203PC	20	12	220	287
BPL20-T1403NC	BPL20-T1403PC	20	14	260	327
BPL20-T1603NC	BPL20-T1603PC	20	16	300	367
BPL20-T1803NC	BPL20-T1803PC	20	18	340	407
BPL20-T2003NC	BPL20-T2003PC	20	20	380	447
BPL20-T2203NC	BPL20-T2203PC	20	22	420	487
BPL20-T2403NC	BPL20-T2403PC	20	24	460	527
BPL20-T2603NC	BPL20-T2603PC	20	26	500	567
BPL20-T2803NC	BPL20-T2803PC	20	28	540	607
BPL20-T3003NC	BPL20-T3003PC	20	30	580	647
BPL20-T3203NC	BPL20-T3203PC	20	32	620	687

Waterproof Type

BPL series

BPL25

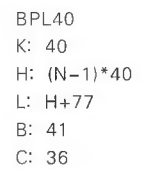
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BPL25-T0603NC	BPL25-T0603PC	25	06	125	194.5
BPL25-T0803NC	BPL25-T0803PC	25	08	175	244.5
BPL25-T1003NC	BPL25-T1003PC	25	10	225	294.5
BPL25-T1203NC	BPL25-T1203PC	25	12	275	344.5
BPL25-T1403NC	BPL25-T1403PC	25	14	325	394.5
BPL25-T1603NC	BPL25-T1603PC	25	16	375	444.5
BPL25-T1803NC	BPL25-T1803PC	25	18	425	494.5
BPL25-T2003NC	BPL25-T2003PC	25	20	475	544.5
BPL25-T2203NC	BPL25-T2203PC	25	22	525	594.5
BPL25-T2403NC	BPL25-T2403PC	25	24	575	644.5
BPL25-T2603NC	BPL25-T2603PC	25	26	625	694.5
BPL25-T2803NC	BPL25-T2803PC	25	28	675	744.5
BPL25-T3003NC	BPL25-T3003PC	25	30	725	794.5
BPL25-T3203NC	BPL25-T3203PC	25	32	775	844.5

BPL30

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BPL30-T0403NC	BPL30-T0403PC	30	04	90	162
BPL30-T0603NC	BPL30-T0603PC	30	06	150	222
BPL30-T0803NC	BPL30-T0803PC	30	08	210	282
BPL30-T1003NC	BPL30-T1003PC	30	10	270	342
BPL30-T1203NC	BPL30-T1203PC	30	12	330	402
BPL30-T1403NC	BPL30-T1403PC	30	14	390	462
BPL30-T1603NC	BPL30-T1603PC	30	16	450	522
BPL30-T1803NC	BPL30-T1803PC	30	18	510	582
BPL30-T2003NC	BPL30-T2003PC	30	20	570	642
BPL30-T2203NC	BPL30-T2203PC	30	22	630	702
BPL30-T2403NC	BPL30-T2403PC	30	24	690	762
BPL30-T2603NC	BPL30-T2603PC	30	26	750	822
BPL30-T2803NC	BPL30-T2803PC	30	28	810	882
BPL30-T3003NC	BPL30-T3003PC	30	30	870	942
BPL30-T3203NC	BPL30-T3203PC	30	32	930	1002

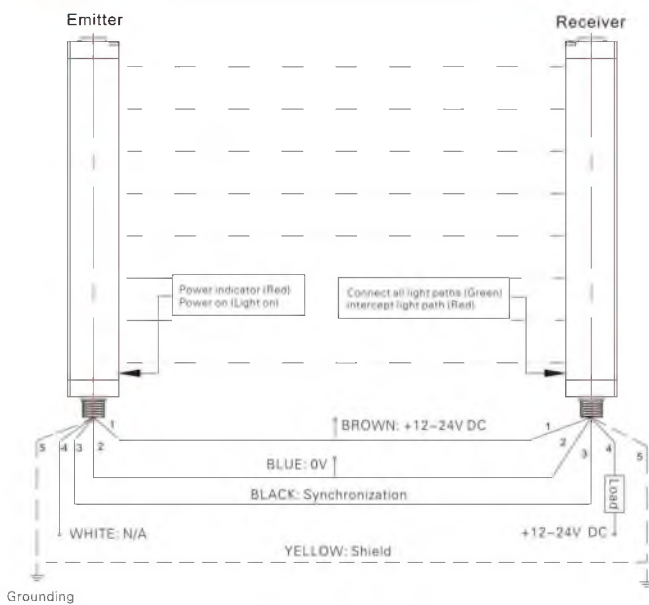
BPL40

Model		Beam pitch	No. Beams	Detection Height	Light Curtain Height
BPL40-T0403NC	BPL40-T0403PC	40	04	120	197
BPL40-T0603NC	BPL40-T0603PC	40	06	200	277
BPL40-T0803NC	BPL40-T0803PC	40	08	280	357
BPL40-T1003NC	BPL40-T1003PC	40	10	360	437
BPL40-T1203NC	BPL40-T1203PC	40	12	440	517
BPL40-T1403NC	BPL40-T1403PC	40	14	520	597
BPL40-T1603NC	BPL40-T1603PC	40	16	600	677
BPL40-T1803NC	BPL40-T1803PC	40	18	680	757
BPL40-T2003NC	BPL40-T2003PC	40	20	760	837
BPL40-T2203NC	BPL40-T2203PC	40	22	840	917
BPL40-T2403NC	BPL40-T2403PC	40	24	920	997
BPL40-T2603NC	BPL40-T2603PC	40	26	1000	1077
BPL40-T2803NC	BPL40-T2803PC	40	28	1080	1157
BPL40-T3003NC	BPL40-T3003PC	40	30	1160	1237
BPL40-T3203NC	BPL40-T3203PC	40	32	1240	1317

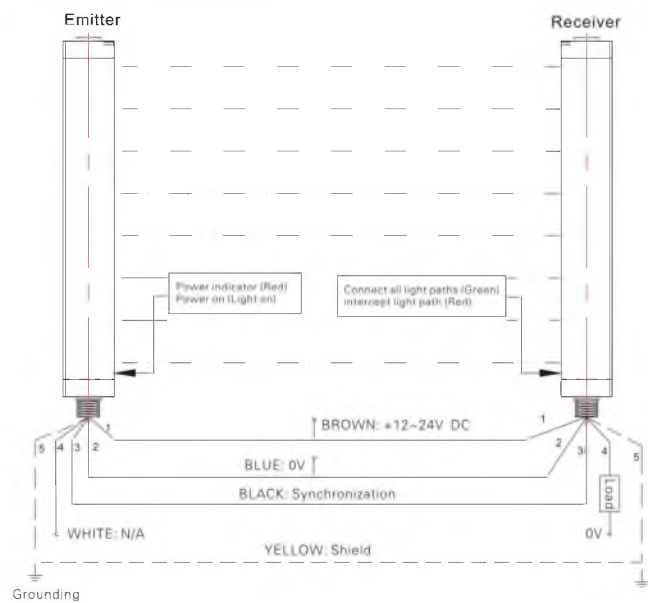


Connection Diagram

NPN



PNP



По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
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