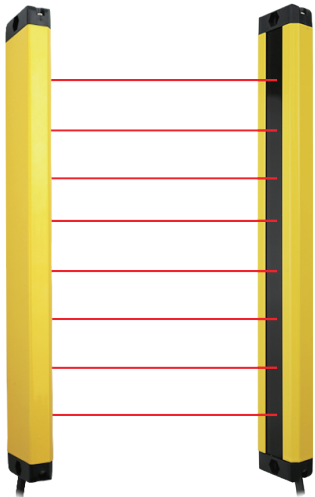


Ultra-slim Safety Light Curtain ■ BA-Series

Ratings and Specifications

Cross section size	30*13mm	Sensing method	through-beam
Beam gap	10mm, 20mm	Beam quantity	8-128 beams
Resolution	15mm, 25mm	Power voltage supply	12-24V DC $\pm$ 10%
Sensing range	0.2-1.5m (0.3-2.5m customizable)	Light source	infrared LED (850nm)
Protected height	70 to 2540 mm	Response time	10ms max.
Output current	200 mA max.	Synchronization mode	light synchronization
Power	5w max.	Operating temperature	-10°C to 55°C
Protection degree	IP65	Ambient humidity	85% max.
Output	NPN or PNP	Insulation resistance	100 M Ω min.
Operation mode	light-ON or dark-ON	Connection method	pre-wired, 2 m cable
Protection	power polarity protection, short circuit protection, over load protection	Material	aluminum alloy housing, acrylic terminal covers.

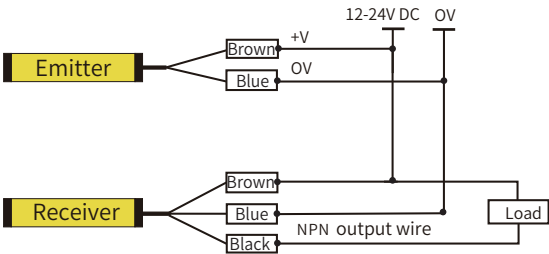
Thickness: only 13mm



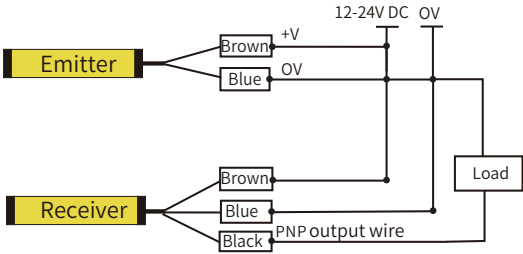
Operation Mode and Indicator Mode

Output	Operation mode	Receiver indicator	Transistor output status	
NPN	Light-ON	Green light-ON	ON	0.3W, residual voltage: 1V max.
	Dark-ON	Red light-ON	OFF	OFF current (leakage current) : 2mA max.
PNP	Light-ON	Green light-ON	ON	Source current: 200mA max. applied voltage: 24V, residual voltage: 2V max.
	Dark-ON	Red light-ON	OFF	OFF current (leakage current): 2 mA max.

I/O Circuit Diagrams

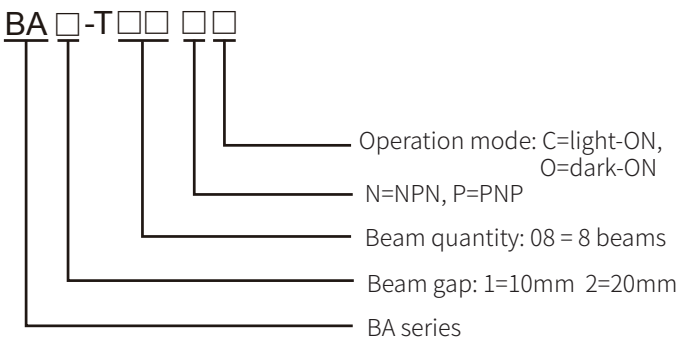


Optical-synchronization(NPN)

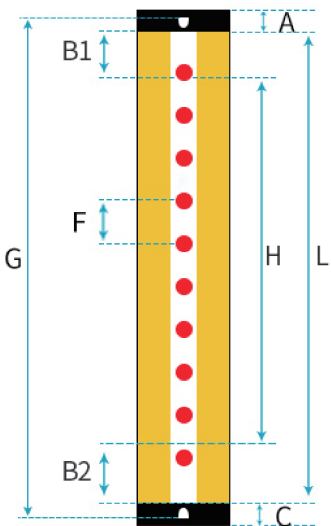


Optical-synchronization(PNP)

Model Definition



Dimensions Unit: mm



- A: top cover: 10mm
- C: bottom cover: 10mm
- B1: top blind area: 10mm
- B2: bottom blind area: 15mm
- L: light curtain height
- H: protection height
- F: beam gap
- G: mounting space

Ordering Information

Model	Beam quantity	Beam gap (F)	Protection height (H)	Light curtain housing height (L)	Mounting space (G)	Sensing distance	Output	Dimensions (LxWxH) mm
BA1-T08NC	8	10mm	70mm	110mm	100mm	0. 2-1. 5m (0. 3-2. 5m customiz able)	NPN/PNP	30X13X110
BA1-T10NC	10		90mm	130mm	120mm			30X13X130
BA1-T12NC	12		110mm	150mm	140mm			30X13X150
BA1-T14NC	14		130mm	170mm	160mm			30X13X170
BA1-T16NC	16		150mm	190mm	180mm			30X13X190
BA1-T18NC	18		170mm	210mm	200mm			30X13X210
BA1-T20NC	20		190mm	230mm	220mm			30X13X230
BA1-T22NC	22		210mm	250mm	240mm			30X13X250
BA1-T24NC	24		230mm	270mm	260mm			30X13X270
BA1-T26NC	26		250mm	290mm	280mm			30X13X290
BA1-T28NC	28		270mm	310mm	300mm			30X13X310
BA1-T30NC	30		290mm	330mm	320mm			30X13X330
BA1-T32NC	32		310mm	350mm	340mm			30X13X350
BA1-T34NC	34		330mm	370mm	360mm			30X13X370
BA1-T36NC	36		350mm	390mm	380mm			30X13X390
BA1-T38NC	38		370mm	410mm	400mm			30X13X410
BA1-T40NC	40		390mm	430mm	420mm			30X13X430
BA1-T42NC	42		410mm	450mm	440mm			30X13X450
BA1-T44NC	44		430mm	470mm	460mm			30X13X470
BA1-T46NC	46		450mm	490mm	480mm			30X13X490
BA1-T48NC	48		470mm	510mm	500mm			30X13X510
BA1-T50NC	50		490mm	530mm	520mm			30X13X530
BA1-T52NC	52		510mm	550mm	540mm			30X13X550
BA1-T54NC	54		530mm	570mm	560mm			30X13X570
BA1-T56NC	56		550mm	590mm	580mm			30X13X590
BA1-T58NC	58		570mm	610mm	600mm			30X13X610
BA1-T60NC	60		590mm	630mm	620mm			30X13X630
BA1-T62NC	62		610mm	650mm	640mm			30X13X650
BA1-T64NC	64		630mm	670mm	660mm			30X13X670
BA1-T66NC	66		650mm	690mm	680mm			30X13X690
BA1-T68NC	68		670mm	710mm	700mm			30X13X710
BA1-T70NC	70		690mm	730mm	720mm			30X13X730
BA1-T72NC	72		710mm	750mm	740mm			30X13X750
BA1-T74NC	74		730mm	770mm	760mm			30X13X770
BA1-T76NC	76		750mm	790mm	780mm			30X13X790
BA1-T78NC	78		770mm	810mm	800mm			30X13X810
BA1-T80NC	80		790mm	830mm	820mm			30X13X830
BA1-T82NC	82		810mm	850mm	840mm			30X13X850
BA1-T84NC	84		830mm	870mm	860mm			30X13X870
BA1-T86NC	86		850mm	890mm	880mm			30X13X890
BA1-T88NC	88		870mm	910mm	900mm			30X13X910
BA1-T90NC	90		890mm	930mm	920mm			30X13X930
BA1-T92NC	92		910mm	950mm	940mm			30X13X950
BA1-T94NC	94		930mm	970mm	960mm			30X13X970
BA1-T96NC	96		950mm	990mm	980mm			30X13X990
BA1-T98NC	98		970mm	1010mm	1000mm			30X13X1010
BA1-T100NC	100		990mm	1030mm	1020mm			30X13X1030
BA1-T102NC	102		1010mm	1050mm	1040mm			30X13X1050
BA1-T104NC	104		1030mm	1070mm	1060mm			30X13X1070
BA1-T106NC	106		1050mm	1090mm	1080mm			30X13X1090
BA1-T108NC	108		1070mm	1110mm	1100mm			30X13X1110
BA1-T110NC	110		1090mm	1130mm	1120mm			30X13X1130
BA1-T112NC	112		1110mm	1150mm	1140mm			30X13X1150
BA1-T114NC	114		1130mm	1170mm	1160mm			30X13X1170
BA1-T116NC	116		1150mm	1190mm	1180mm			30X13X1190
BA1-T118NC	118		1170mm	1210mm	1200mm			30X13X1210
BA1-T120NC	120		1190mm	1230mm	1220mm			30X13X1230
BA1-T122NC	122		1210mm	1250mm	1240mm			30X13X1250
BA1-T124NC	124		1230mm	1270mm	1260mm			30X13X1270
BA1-T126NC	126		1250mm	1290mm	1280mm			30X13X1290
BA1-T128NC	128		1270mm	1310mm	1300mm			30X13X1310

Ordering Information

Model	Beam quantity	Beam gap (F)	Protection height (H)	Light curtain housing height (L)	Mounting space (G)	Sensing distance	Output	Dimensions (LxWxH) mm
BA2-T08NC	8	20mm	140mm	190mm	180mm	0. 2-1. 5m (0. 3-2. 5m customizable)	NPN/PNP	30X13X190
BA2-T10NC	10		180mm	230mm	220mm			30X13X230
BA2-T12NC	12		220mm	270mm	260mm			30X13X270
BA2-T14NC	14		260mm	310mm	300mm			30X13X310
BA2-T16NC	16		300mm	350mm	340mm			30X13X350
BA2-T18NC	18		340mm	390mm	380mm			30X13X390
BA2-T20NC	20		380mm	430mm	420mm			30X13X430
BA2-T22NC	22		420mm	470mm	460mm			30X13X470
BA2-T24NC	24		460mm	510mm	500mm			30X13X510
BA2-T26NC	26		500mm	550mm	540mm			30X13X550
BA2-T28NC	28		540mm	590mm	580mm			30X13X590
BA2-T30NC	30		580mm	630mm	620mm			30X13X630
BA2-T32NC	32		620mm	670mm	660mm			30X13X670
BA2-T34NC	34		660mm	710mm	700mm			30X13X710
BA2-T36NC	36		700mm	750mm	740mm			30X13X750
BA2-T38NC	38		740mm	790mm	780mm			30X13X790
BA2-T40NC	40		780mm	830mm	820mm			30X13X830
BA2-T42NC	42		820mm	870mm	860mm			30X13X870
BA2-T44NC	44		860mm	910mm	900mm			30X13X910
BA2-T46NC	46		900mm	950mm	940mm			30X13X950
BA2-T48NC	48		940mm	990mm	980mm			30X13X990
BA2-T50NC	50		980mm	1030mm	1020mm			30X13X1030
BA2-T52NC	52		1020mm	1070mm	1060mm			30X13X1070
BA2-T54NC	54		1060mm	1110mm	1100mm			30X13X1110
BA2-T56NC	56		1100mm	1150mm	1140mm			30X13X1150
BA2-T58NC	58		1140mm	1190mm	1180mm			30X13X1190
BA2-T60NC	60		1180mm	1230mm	1220mm			30X13X1230
BA2-T62NC	62		1220mm	1270mm	1260mm			30X13X1270
BA2-T64NC	64		1260mm	1310mm	1300mm			30X13X1310
BA2-T66NC	66		1300mm	1350mm	1340mm			30X13X1350
BA2-T68NC	68		1340mm	1390mm	1380mm			30X13X1390
BA2-T70NC	70		1380mm	1430mm	1420mm			30X13X1430
BA2-T72NC	72		1420mm	1470mm	1460mm			30X13X1470
BA2-T74NC	74		1460mm	1510mm	1500mm			30X13X1510
BA2-T76NC	76		1500mm	1550mm	1540mm			30X13X1550
BA2-T78NC	78		1540mm	1590mm	1580mm			30X13X1590
BA2-T80NC	80		1580mm	1630mm	1620mm			30X13X1630
BA2-T82NC	82		1620mm	1670mm	1660mm			30X13X1670
BA2-T84NC	84		1660mm	1710mm	1700mm			30X13X1710
BA2-T86NC	86		1700mm	1750mm	1740mm			30X13X1750
BA2-T88NC	88		1740mm	1790mm	1780mm			30X13X1790
BA2-T90NC	90		1780mm	1830mm	1820mm			30X13X1830
BA2-T92NC	92		1820mm	1870mm	1860mm			30X13X1870
BA2-T94NC	94		1860mm	1910mm	1900mm			30X13X1910
BA2-T96NC	96		1900mm	1950mm	1940mm			30X13X1950
BA2-T98NC	98		1940mm	1990mm	1980mm			30X13X1990
BA2-T100NC	100		1980mm	2030mm	2020mm			30X13X2030
BA2-T102NC	102		2020mm	2070mm	2060mm			30X13X2070
BA2-T104NC	104		2060mm	2110mm	2100mm			30X13X2110
BA2-T106NC	106		2100mm	2150mm	2140mm			30X13X2150
BA2-T108NC	108		2140mm	2190mm	2180mm			30X13X2190
BA2-T110NC	110		2180mm	2230mm	2220mm			30X13X2230
BA2-T112NC	112		2220mm	2270mm	2260mm			30X13X2270
BA2-T114NC	114		2260mm	2310mm	2300mm			30X13X2310
BA2-T116NC	116		2300mm	2350mm	2340mm			30X13X2350
BA2-T118NC	118		2340mm	2390mm	2380mm			30X13X2390
BA2-T120NC	120		2380mm	2430mm	2420mm			30X13X2430
BA2-T122NC	122		2420mm	2470mm	2460mm			30X13X2470
BA2-T124NC	124		2460mm	2510mm	2500mm			30X13X2510
BA2-T126NC	126		2500mm	2550mm	2540mm			30X13X2550
BA2-T128NC	128		2540mm	2590mm	2580mm			30X13X2590