

LC general grating performance characteristics

LC general purpose grating is a new type of through-beam product developed and developed by adopting foreign advanced technology.

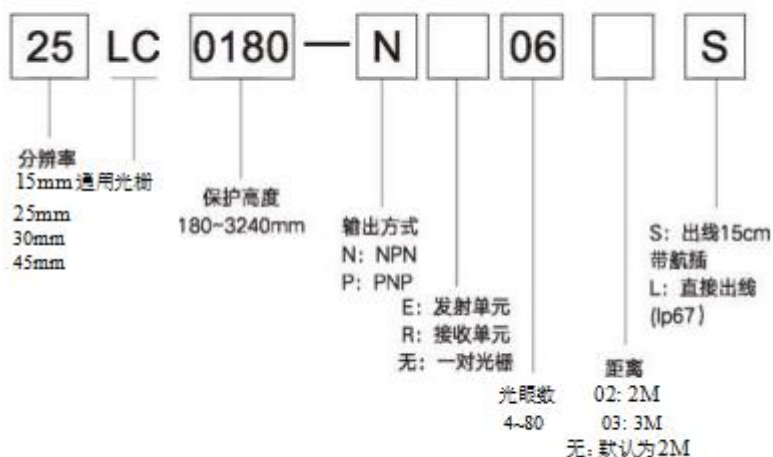
This product has passed the European CE certification (EN61000), has strong stability, can completely replace imported regional sensors, such as: NA series, SAS series, PJV series, etc., has been widely used in assembly lines, injection molding machines, hydraulic presses, etc. Less dangerous equipment. This grating has the following characteristics: Adopt the most advanced infrared light synchronization technology in Europe

◆Using more compact SMD devices and the latest foreign technology to achieve shorter blind spot invalid length Periodic scanning of light spots by CPU Small size, cross-section size is only 25*28MM Have good on-site applicability

◆Pulse test, self-diagnosis of the output circuit, forced and instantaneous shutdown (spontaneously self-received) with interrupted periodic pulses (not affecting the work) Safety Frequency selection function, adjacent gratings can be set to different frequencies to prevent interference



LC general grating model description



25:Resolution

0180: Protection height, output mode,

N: out put type (N-NPN P:PNP)

□: E: transmitting unit, R: receiving unit, none: a pair of gratings,

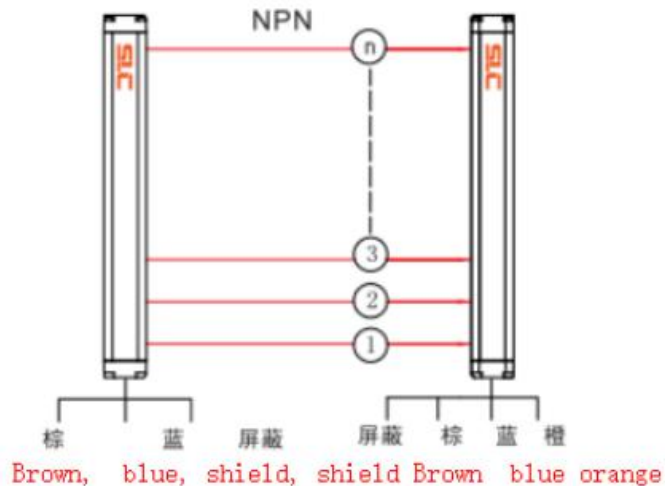
O6: number of optical eyes,

□:distance, 02: 2M , 03:3M, Non: The default is 2 meters

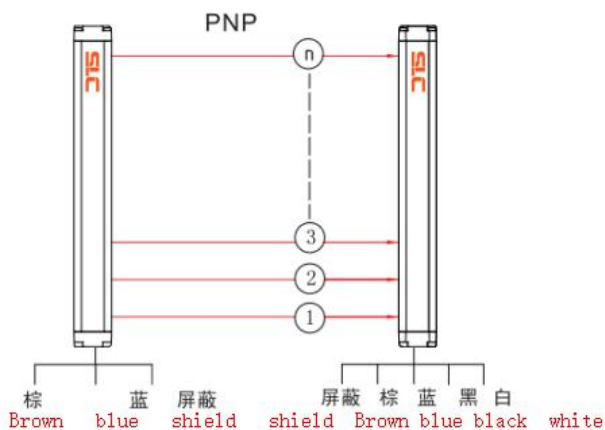
s: 15CM cable outlet with aerial plug, L: direct cable outlet (ip67)

Please add SA after the specific model, SA means the latest model series

LC series general grating wiring:

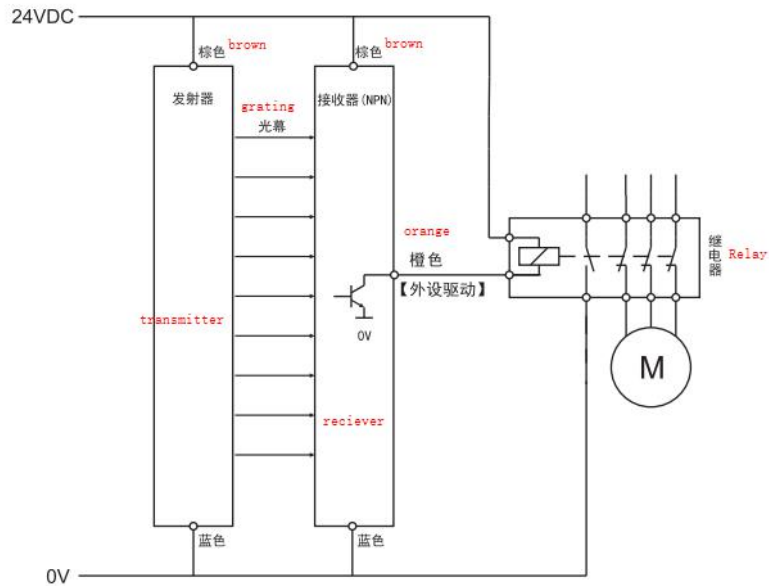


Name	colour	explanation
Transmittor	Brown+24VDC	Supply voltage, DC 24V
	Blue GND	Power 0V
Reciever	Brown+24VDC	Supply voltage, DC 24V
	Blue GND	Power 0V
	Orange 0SSD1	Output NPN (can directly enter PLC, ordinary relay)

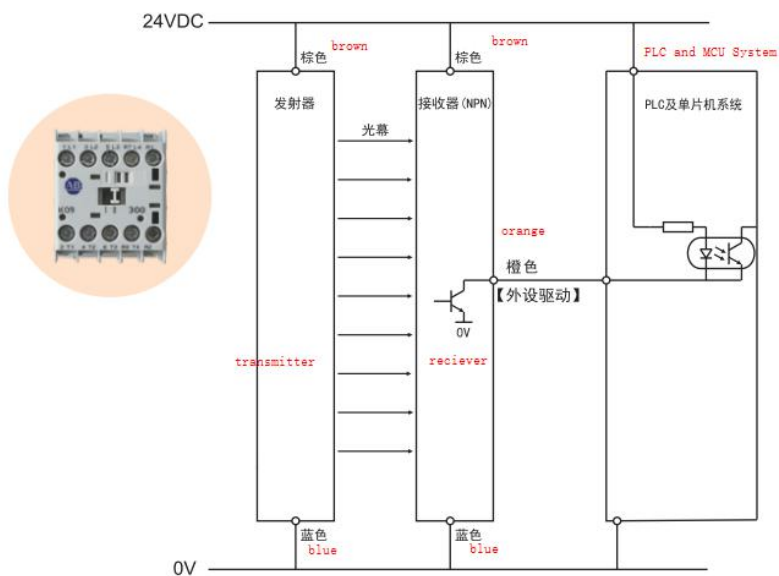


Name	colour	explanation
Transmittor	Brown+24VDC	Supply voltage, DC 24V
	Blue GND	Power 0V
Reciever	Brown+24VDC	Supply voltage, DC 24V
	Blue GND	Power 0V
	Black 0SSD1	Output 1: PNP (can directly enter PLC, safety relay)
	White 0SSD2	Output 2: PNP (can directly enter PLC, safety relay)

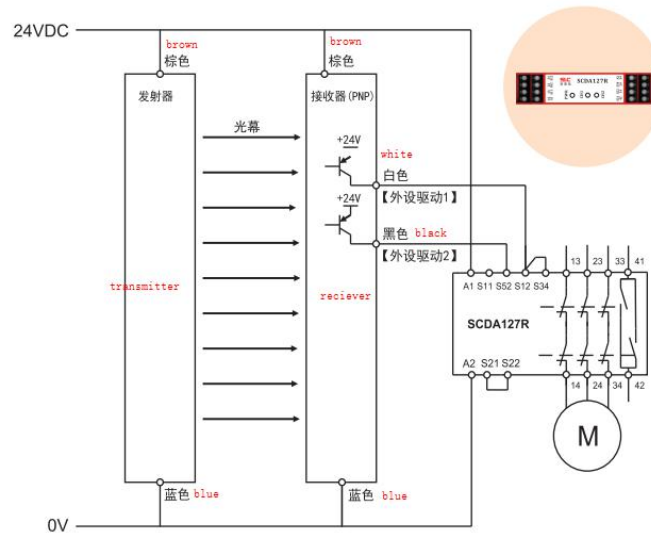
LC general grating (NPN, single output) and relay wiring diagram:



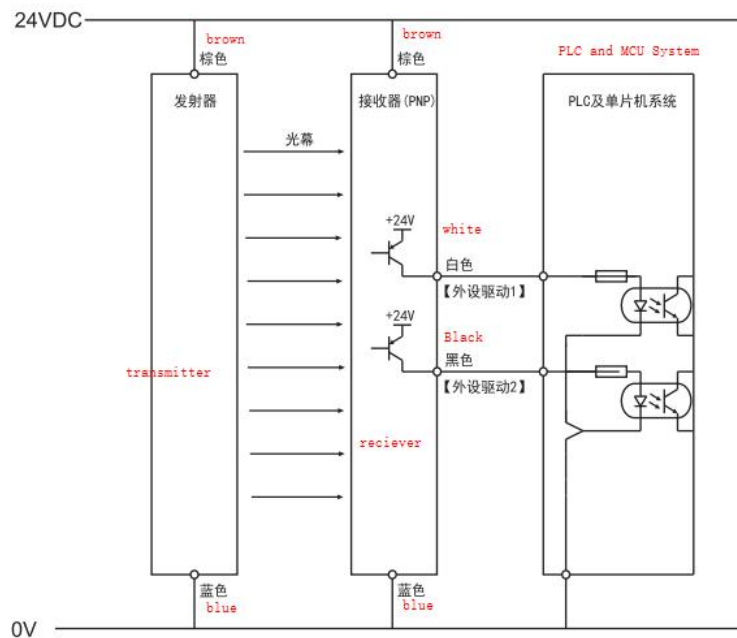
LC general grating (NPN, single output) and PLC wiring diagram:



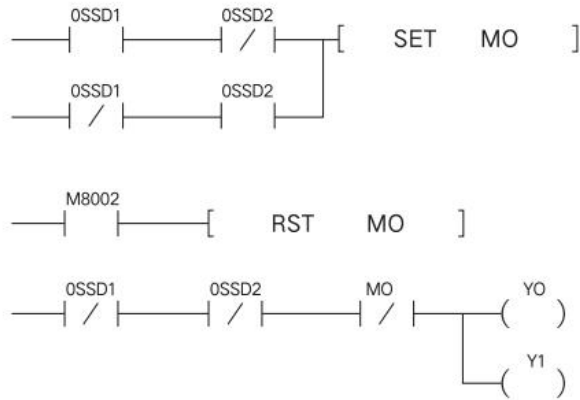
Wiring diagram of LC general grating (PNP output) and safety module SCDA127R:



LC general grating (PNP output) and PLC wiring diagram:



LC universal grating connected to PLC (Mitsubishi) programming reference program:



OSSD1 input	OSSD2 input	Y1 output	Y2 output	Grating working status
0	0	0	0	Grating shading, normal work
0	1	0	0	Fault
1	0	0	0	Fault
1	1	1	1	The grating is light and works normally

Note: OSSD1/2 input refers to the signal output from the grating to the PLC; Y1/N2 refers to the output signal after the PLC processes OSSD/2; "0" means off, and "1" means on.

Common troubleshooting of LC general grating:

Common malfunctions	Reasons and solutions
Emit a red light	Launch failure
Receive high red light	It may be that there is an obstruction between the two gratings, or the reception is damaged

LC general grating technical parameters:

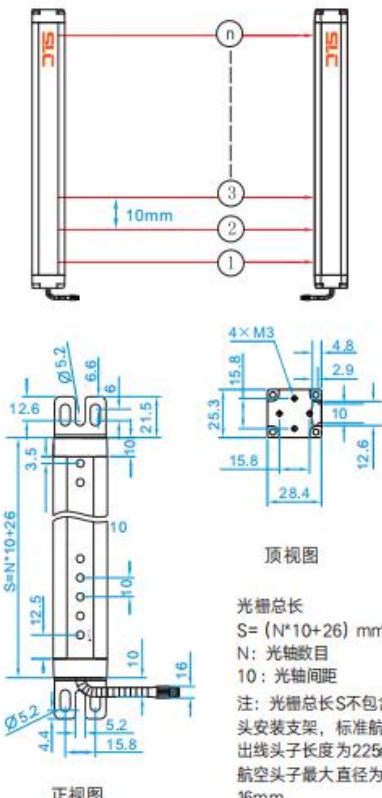
LC grating (15/25/30/45 series)			
Protection height	180~3240mm (can be customized according to customer requirements)	Response time	3~22ms
Section size	25*28mm	Output type	NPN/PNP (PNP output is limited to 15, 25, 45 series)
Detection distance	0~2m 0~3m (distance can be customized)	Output current	W 200mA
Number of beams	4~80 (standard light points), more points can be customized	External protection level	IP65 (IP67 is required for waterproof series, please choose outlet)
Resolution (optical axis spacing)	15mm(10mm)/25mm(20mm)/30mm(25mm)/45mm(40mm series)	Operating temperature	-10~55C
Infrared light wavelength	940nm	Storage temperature	-20~70°C
Synchronization	Optical synchronization	Relative humidity	15%~85%
Supply voltage	24VDC±20%	Impact resistance	10g/20ms
Maximum power	≤5W	Scan time	W18ms

Specification and selection of LC general grating:

15LC series (optical wheelbase: 10mm, resolution: 15mm) and installation dimensions

Please add SA after the specific model, SA means the latest model series

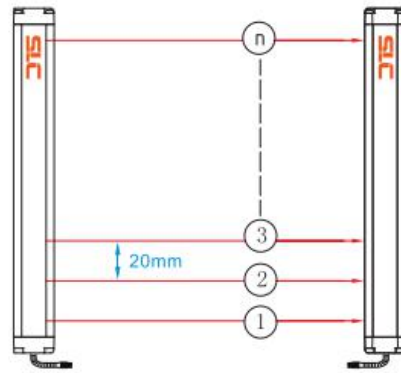
Model (PNP) Model (NPN) Number of beams Protection height(Mm) Dimensions

形状	型号 (PNP)	型号 (NPN)	光轴数	保护高度 (mm)	外形尺寸 长*宽*高 (mm)
 <p>顶视图</p> <p>光栅总长 $S = (N \times 10 + 26)$ mm N: 光轴数目 10: 光轴间距</p> <p>注: 光栅总长S不包含两头安装支架, 标准航空出线头子长度为225mm, 航空头子最大直径为16mm</p> <p>正视图</p>	15LC0110-P10□□S	15LC0110-N10□□S	10	110	25*28*126
	15LC0160-P15□□S	15LC0160-N15□□S	15	160	25*28*176
	15LC0210-P20□□S	15LC0210-N20□□S	20	210	25*28*226
	15LC0260-P25□□S	15LC0260-N25□□S	25	260	25*28*276
	15LC0310-P30□□S	15LC0310-N30□□S	30	310	25*28*326
	15LC0360-P35□□S	15LC0360-N35□□S	35	360	25*28*376
	15LC0410-P40□□S	15LC0410-N40□□S	40	410	25*28*426
	15LC0460-P45□□S	15LC0460-N45□□S	45	460	25*28*476
	15LC0510-P50□□S	15LC0510-N50□□S	50	510	25*28*526
	15LC0560-P55□□S	15LC0560-N55□□S	55	560	25*28*576
	15LC0610-P60□□S	15LC0610-N60□□S	60	610	25*28*626
	15LC0660-P65□□S	15LC0660-N65□□S	65	660	25*28*676
	15LC0710-P70□□S	15LC0710-N70□□S	70	710	25*28*726
	15LC0760-P75□□S	15LC0760-N75□□S	75	760	25*28*776
	15LC0810-P80□□S	15LC0810-N80□□S	80	810	25*28*826
	15LC0860-P85□□S	15LC0860-N85□□S	85	860	25*28*876
	15LC0910-P90□□S	15LC0910-N90□□S	90	910	25*28*926
	15LC0960-P95□□S	15LC0960-N95□□S	95	960	25*28*976
	15LC1010-P100□□S	15LC1010-N100□□S	100	1010	25*28*1026
	15LC1060-P105□□S	15LC1060-N105□□S	105	1060	25*28*1076
15LC1110-P110□□S	15LC1110-N110□□S	110	1110	25*28*1126	
15LC1160-P115□□S	15LC1160-N115□□S	115	1160	25*28*1176	
15LC1210-P120□□S	15LC1210-N120□□S	120	1210	25*28*1226	

25LC series (optical axis distance: 20mm, resolution: 25mm) and installation dimensions

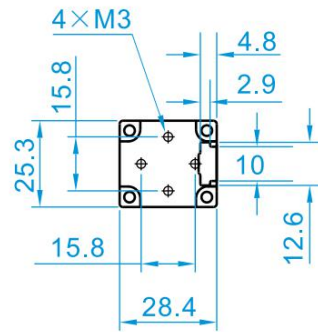
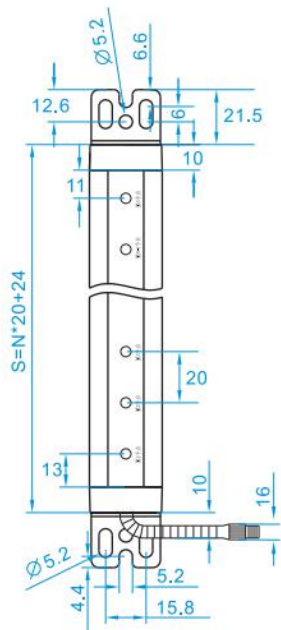
Please add SA after the specific model, SA means the latest model series

Shape and size :



Front view:

top view



Model (PNP) Model (NPN) Number of beams Protection height(Mm) Dimensions

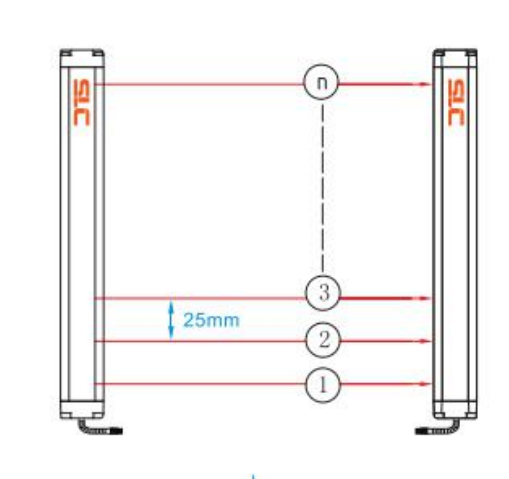
型号 (PNP)	型号 (NPN)	光轴数	保护高度 (mm)	外形尺寸 长*宽*高 (mm)
25LC0180-P08□□S	25LC0180-N08□□S	8	180	25*28*184
25LC0260-P12□□S	25LC0260-N12□□S	12	260	25*28*264
25LC0340-P16□□S	25LC0340-N16□□S	16	340	25*28*344
25LC0420-P20□□S	25LC0420-N20□□S	20	420	25*28*424
25LC0500-P24□□S	25LC0500-N24□□S	24	500	25*28*504
25LC0580-P28□□S	25LC0580-N28□□S	28	580	25*28*584
25LC0660-P32□□S	25LC0660-N32□□S	32	660	25*28*664
25LC0740-P36□□S	25LC0740-N36□□S	36	740	25*28*744
25LC0820-P40□□S	25LC0820-N40□□S	40	820	25*28*824
25LC0900-P44□□S	25LC0900-N44□□S	44	900	25*28*904
25LC0980-P48□□S	25LC0980-N48□□S	48	980	25*28*984
25LC1060-P52□□S	25LC1060-N52□□S	52	1060	25*28*1064
25LC1140-P56□□S	25LC1140-N56□□S	56	1140	25*28*1144
25LC1220-P60□□S	25LC1220-N60□□S	60	1220	25*28*1224
25LC1300-P64□□S	25LC1300-N64□□S	64	1300	25*28*1304
25LC1380-P68□□S	25LC1380-N68□□S	68	1380	25*28*1384
25LC1460-P72□□S	25LC1460-N72□□S	72	1460	25*28*1464
25LC1540-P76□□S	25LC1540-N76□□S	76	1540	25*28*1544
25LC1620-P80□□S	25LC1620-N80□□S	80	1620	25*28*1624
25LC1700-P84□□S	25LC1700-N84□□S	84	1700	25*28*1704
25LC1780-P88□□S	25LC1780-N88□□S	88	1780	25*28*1784
25LC1860-P92□□S	25LC1860-N92□□S	92	1860	25*28*1864
25LC1940-P96□□S	25LC1940-N96□□S	96	1940	25*28*1944
25LC2020-P100□□S	25LC2020-N100□□S	100	2020	25*28*2024
25LC2100-P104□□S	25LC2100-N104□□S	104	2100	25*28*2104
25LC2180-P108□□S	25LC2180-N108□□S	108	2180	25*28*2184
25LC2260-P112□□S	25LC2260-N112□□S	112	2260	25*28*2264
25LC2340-P116□□S	25LC2340-N116□□S	116	2340	25*28*2344
25LC2420-P120□□S	25LC2420-N120□□S	120	2420	25*28*2424
25LC2500-P124□□S	25LC2500-N124□□S	124	2500	25*28*2504
25LC2580-P128□□S	25LC2580-N128□□S	128	2580	25*28*2584
25LC2660-P132□□S	25LC2660-N132□□S	132	2660	25*28*2664
25LC2740-P136□□S	25LC2740-N136□□S	136	2740	25*28*2744
25LC2820-P140□□S	25LC2820-N140□□S	140	2820	25*28*2824
25LC2900-P144□□S	25LC2900-N144□□S	144	2900	25*28*2904
25LC2980-P148□□S	25LC2980-N148□□S	148	2980	25*28*2984
25LC3060-P152□□S	25LC3060-N152□□S	152	3060	25*28*3064
25LC3140-P156□□S	25LC3140-N156□□S	156	3140	25*28*3144

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30LC series (optical axis distance: 25mm, resolution: 30mm) and installation dimensions

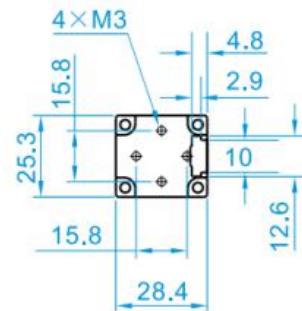
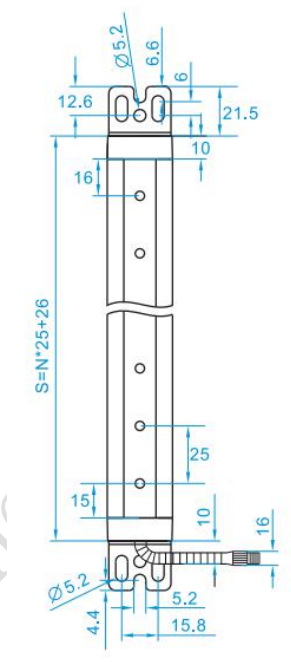
Please add SA after the specific model, SA means the latest model series

Shape and size :



Front view:

top view



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Model (PNP) Model (NPN) Number of beams Protection height(Mm) Dimensions

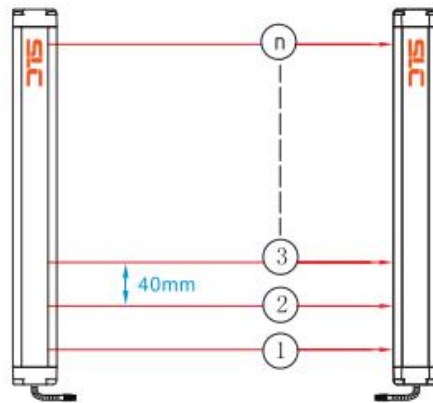
型号 (NPN)	光轴数	保护高度 (mm)	外形尺寸 长*宽*高 (mm)
30LC0125-N04□□S	4	125	25×28×126
30LC0175-N06□□S	6	175	25×28×176
30LC0225-N08□□S	8	225	25×28×226
30LC0275-N10□□S	10	275	25×28×276
30LC0325-N12□□S	12	325	25×28×326
30LC0375-N14□□S	14	375	25×28×376
30LC0425-N16□□S	16	425	25×28×426
30LC0475-N18□□S	18	475	25×28×476
30LC0525-N20□□S	20	525	25×28×526
30LC0575-N22□□S	22	575	25×28×576
30LC0625-N24□□S	24	625	25×28×626
30LC0675-N26□□S	26	675	25×28×676
30LC0725-N28□□S	28	725	25×28×726
30LC0775-N30□□S	30	775	25×28×776
30LC0825-N32□□S	32	825	25×28×826
30LC0875-N34□□S	34	875	25×28×876
30LC0925-N36□□S	36	925	25×28×926
30LC0975-N38□□S	38	975	25×28×976
30LC1025-N40□□S	40	1025	25×28×1026
30LC1075-N42□□S	42	1075	25×28×1076
30LC1125-N44□□S	44	1125	25×28×1126
30LC1175-N46□□S	46	1175	25×28×1176
30LC1225-N48□□S	48	1225	25×28×1226
30LC1275-N50□□S	50	1275	25×28×1276
30LC1325-N52□□S	52	1325	25×28×1326
30LC1375-N54□□S	54	1375	25×28×1376
30LC1425-N56□□S	56	1425	25×28×1426
30LC1475-N58□□S	58	1475	25×28×1476
30LC1525-N60□□S	60	1525	25×28×1526
30LC1575-N62□□S	62	1575	25×28×1576
30LC1625-N64□□S	64	1625	25×28×1626
30LC1675-N66□□S	66	1675	25×28×1676
30LC1725-N68□□S	68	1725	25×28×1726
30LC1775-N70□□S	70	1775	25×28×1776
30LC1825-N72□□S	72	1825	25×28×1826
30LC1875-N74□□S	74	1875	25×28×1876
30LC1925-N76□□S	76	1925	25×28×1926
30LC1975-N78□□S	78	1975	25×28×1976
30LC2025-N80□□S	80	2025	25×28×2026

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45LC series (optical wheelbase: 40mm, resolution: 45mm) and installation dimensions

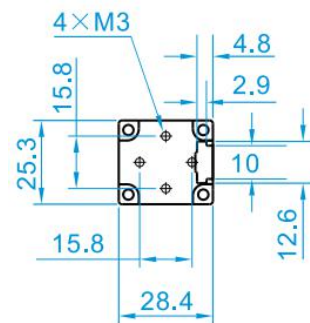
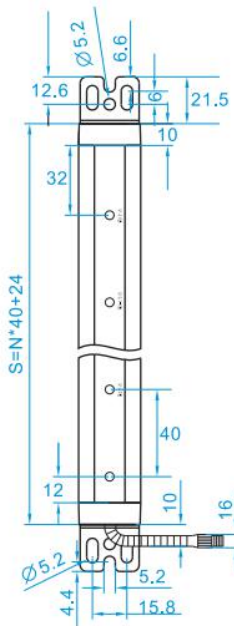
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Shape and size :



Front view:

top view



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Model (PNP) Model (NPN) Number of beams Protection height(Mm) Dimensions

型号 (PNP)	型号 (NPN)	光轴数	保护高度 (mm)	外形尺寸 长*宽*高 (mm)
45LC0200-P04□□S	45LC0200-N04□□S	4	200	25*28*184
45LC0280-P06□□S	45LC0280-N06□□S	6	280	25*28*264
45LC0360-P08□□S	45LC0360-N08□□S	8	360	25*28*344
45LC0440-P10□□S	45LC0440-N10□□S	10	440	25*28*424
45LC0520-P12□□S	45LC0520-N12□□S	12	520	25*28*504
45LC0600-P14□□S	45LC0600-N14□□S	14	600	25*28*584
45LC0680-P16□□S	45LC0680-N16□□S	16	680	25*28*664
45LC0760-P18□□S	45LC0760-N18□□S	18	760	25*28*744
45LC0840-P20□□S	45LC0840-N20□□S	20	840	25*28*824
45LC0920-P22□□S	45LC0920-N22□□S	22	920	25*28*904
45LC1000-P24□□S	45LC1000-N24□□S	24	1000	25*28*984
45LC1080-P26□□S	45LC1080-N26□□S	26	1080	25*28*1064
45LC1160-P28□□S	45LC1160-N28□□S	28	1160	25*28*1144
45LC1240-P30□□S	45LC1240-N30□□S	30	1240	25*28*1224
45LC1320-P32□□S	45LC1320-N32□□S	32	1320	25*28*1304
45LC1400-P34□□S	45LC1400-N34□□S	34	1400	25*28*1384
45LC1480-P36□□S	45LC1480-N36□□S	36	1480	25*28*1464
45LC1560-P38□□S	45LC1560-N38□□S	38	1560	25*28*1544
45LC1640-P40□□S	45LC1640-N40□□S	40	1640	25*28*1624
45LC1720-P42□□S	45LC1720-N42□□S	42	1720	25*28*1704
45LC1800-P44□□S	45LC1800-N44□□S	44	1800	25*28*1784
45LC1880-P46□□S	45LC1880-N46□□S	46	1880	25*28*1864
45LC1960-P48□□S	45LC1960-N48□□S	48	1960	25*28*1944
45LC2040-P50□□S	45LC2040-N50□□S	50	2040	25*28*2024
45LC2120-P52□□S	45LC2120-N52□□S	52	2120	25*28*2104
45LC2200-P54□□S	45LC2200-N54□□S	54	2200	25*28*2184
45LC2280-P56□□S	45LC2280-N56□□S	56	2280	25*28*2264
45LC2360-P58□□S	45LC2360-N58□□S	58	2360	25*28*2344
45LC2440-P60□□S	45LC2440-N60□□S	60	2440	25*28*2424
45LC2520-P62□□S	45LC2520-N62□□S	62	2520	25*28*2504
45LC2600-P64□□S	45LC2600-N64□□S	64	2600	25*28*2584
45LC2680-P66□□S	45LC2680-N66□□S	66	2680	25*28*2664
45LC2760-P68□□S	45LC2760-N68□□S	68	2760	25*28*2744
45LC2840-P70□□S	45LC2840-N70□□S	70	2840	25*28*2824
45LC2920-P72□□S	45LC2920-N72□□S	72	2920	25*28*2904
45LC3000-P74□□S	45LC3000-N74□□S	74	3000	25*28*2984
45LC3080-P76□□S	45LC3080-N76□□S	76	3080	25*28*3064
45LC3160-P78□□S	45LC3160-N78□□S	78	3160	25*28*3144
45LC3240-P80□□S	45LC3240-N80□□S	80	3240	25*28*3224
45LC3320-P82□□S	45LC3320-N82□□S	82	3320	25*28*3304
45LC3400-P84□□S	45LC3400-N84□□S	84	3400	25*28*3384

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