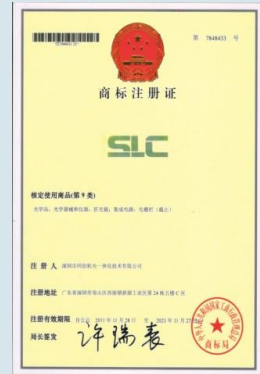


Focus on industrial safety



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5 :micro grating level output wiring diagram of LCM series micro grating

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LCM series miniature grating

■ Performance characteristics of LCM series miniature gratings

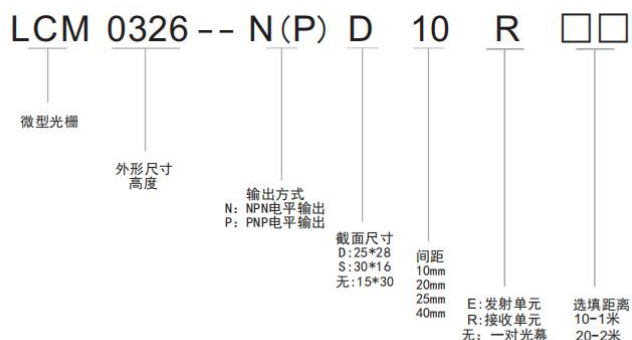
LCM miniature grating is a new type of beam-to-beam product developed and developed with advanced foreign technology. Taking into account economy and safety, with the safety relay module SCDA 127 R, it can reach safety level four. This product has passed the European CE certification (CE 1496), has strong 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:

- ◆ Using optical communication, can be separated power supply, convenient wiring
- ◆ Using more small and exquisite SMD devices and the latest foreign technology to achieve a shorter invalid length of the blind zone
- ◆ Small volume, cross-sectional size 25*28mm, 15*30mm, 30*16mm, saving installation space
- ◆ Using modular design, the product adapts to a wide environment and has strong anti-interference ability

■ Main performance indexes of LCM series micro gratings

Protection height	90-3000mm	Response time	≤20ms (100 beams)
Section size	25*28mm/15*30mm/30*16mm	Output type	NPN/PNP
Detection distance	0.1-3m (distance can be customized)	Acquisition time	0.2ms
Number of beams	4-100	External protection level	Ip65 (IP67 and IP69K can be customized)
optical axis spacing	10mm/20mm/25mm/40mm	Operating temperature	-10-55°C
wavelength	940nm	Resolution	15mm/25mm/30mm/45mm
Synchronization	Optical synchronization	Relative humidity	15%~95%
Supply voltage	24VDC±20%	Maximum power	≤5W

LCM series micro grating product structure model description



LCM: Miniature grating

0326: Overall dimension height

N(P): Output mode N: NPN level output P: PNP level output

D : Section size D: 25*28 S: 30*16 None: 15*3

10: Pitch 10mm 20mm 25mm 40mm

R: E: Transmitting unit R: Receiving unit None: a pair of light

□□: Optional distance 10-1 meters 20-2 meters

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

■ **LCM series miniature grating specifications and models Level output**

◆ Transverse size: 25*28mm

◆ Optical axis spacing is divided into 4 specifications: 10mm, 20mm, 25mm, 40mm

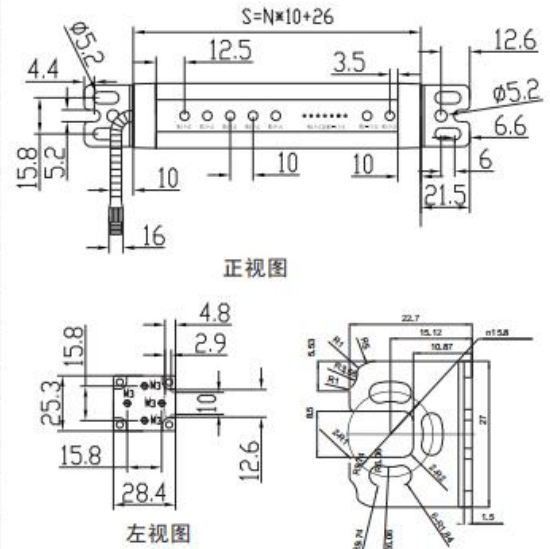
◆ Optical axis spacing is divided into 4 specifications: 10mm, 20mm, 25mm, 40mm

◆ Some rules are as follows:

10 series (optical axis spacing 10mm, resolution: 15mm, standard type) and installation dimensions

Type number of beam protection height outline dimension

型号	光眼数量(个)	保护高度 (mm)	外形尺寸
LCM0126-ND10□□	10	110	25*28*126
LCM0176-ND10□□	15	160	25*28*176
LCM0226-ND10□□	20	210	25*28*226
LCM0276-ND10□□	25	260	25*28*276
LCM0326-ND10□□	30	310	25*28*326
LCM0376-ND10□□	35	360	25*28*376
LCM0426-ND10□□	40	410	25*28*426
LCM0476-ND10□□	45	460	25*28*476
LCM0526-ND10□□	50	510	25*28*526
LCM0576-ND10□□	55	560	25*28*576
LCM0626-ND10□□	60	610	25*28*626
LCM0676-ND10□□	65	660	25*28*676
LCM0726-ND10□□	70	710	25*28*726
LCM0776-ND10□□	75	760	25*28*776
LCM0826-ND10□□	80	810	25*28*826
LCM0876-ND10□□	85	860	25*28*876
LCM0926-ND10□□	90	910	25*28*926
LCM0976-ND10□□	95	960	25*28*976

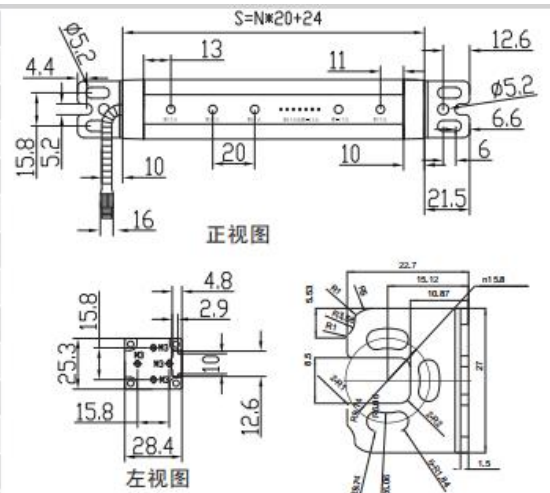


光栅总长 $S = N * 10 + 26$ mm
 N -- 光轴数目
 10 -- 光轴间距
 注：光栅总长S不包两头安装支架，标准航空出线头子长度为225mm，航空头子最大直径为16mm。

20 series (optical axis spacing 20mm, resolution: 25mm, standard type) and installation dimensions

Type number of beam protection height outline dim

型号	光眼数量(个)	保护高度 (mm)	外形尺寸
LCM0184-ND20□□	8	180	25*28*184
LCM0264-ND20□□	12	260	25*28*264
LCM0344-ND20□□	16	340	25*28*344
LCM0424-ND20□□	20	420	25*28*424
LCM0504-ND20□□	24	500	25*28*504
LCM0584-ND20□□	28	580	25*28*584
LCM0664-ND20□□	32	660	25*28*664
LCM0744-ND20□□	36	740	25*28*744
LCM0824-ND20□□	40	820	25*28*824
LCM0904-ND20□□	44	900	25*28*904
LCM0984-ND20□□	48	980	25*28*984
LCM1064-ND20□□	52	1060	25*28*1064
LCM1144-ND20□□	56	1140	25*28*1144
LCM1224-ND20□□	60	1220	25*28*1224
LCM1304-ND20□□	64	1300	25*28*1304
LCM1384-ND20□□	68	1380	25*28*1384



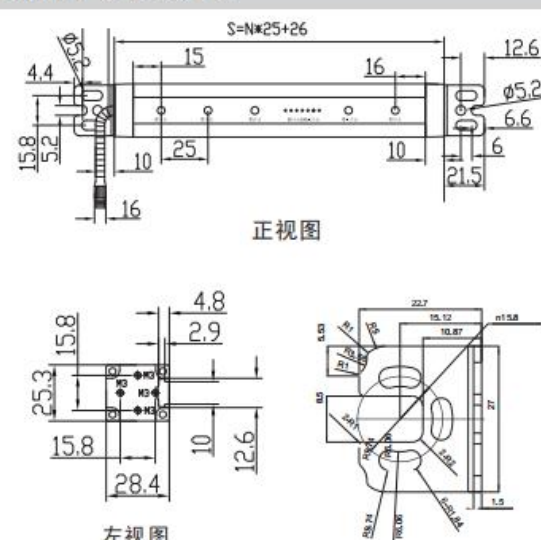
光栅总长 $S = N * 20 + 24$ mm
 N -- 光轴数目
 20 -- 光轴间距
 注：光栅总长S不包两头安装支架，标准航空出线头子长度为225mm，航空头子最大直径为16mm。

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 深圳市骁锐科技有限公司

25 series (optical axis spacing 25mm, resolution: 30mm, standard type) and installation dimensions

Type number of beam protection height outline dim

25系列（光轴间距25mm,分辨率：30mm,标准型）及安装尺寸			
型号	光眼数量(个)	保护高度 (mm)	外形尺寸
LCM0126-ND25□□	4	125	25*28*126
LCM0176-ND25□□	6	175	25*28*176
LCM0226-ND25□□	8	225	25*28*226
LCM0276-ND25□□	10	275	25*28*276
LCM0326-ND25□□	12	325	25*28*326
LCM0376-ND25□□	14	375	25*28*376
LCM0426-ND25□□	16	425	25*28*426
LCM0476-ND25□□	18	475	25*28*476
LCM0526-ND25□□	20	525	25*28*526
LCM0576-ND25□□	22	575	25*28*576
LCM0626-ND25□□	24	625	25*28*626
LCM0676-ND25□□	26	675	25*28*676
LCM0726-ND25□□	28	725	25*28*726
LCM0776-ND25□□	30	775	25*28*776
LCM0826-ND25□□	32	825	25*28*826
LCM0876-ND25□□	34	875	25*28*876
LCM0926-ND25□□	36	925	25*28*926
LCM0976-ND25□□	38	975	25*28*976



正视图

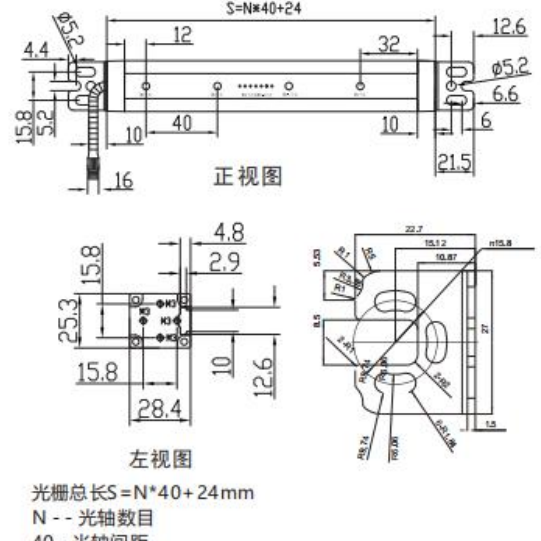
左视图

光栅总长 $S=N*25+26$ mm
 N -- 光轴数目
 25--光轴间距
 注：光栅总长S不包两头安装支架，标准航空出线头子长度为225mm，航空头子最大直径为16mm。

40 series (optical axis spacing 40mm, resolution: 45mm, standard type) and installation dimensions

Type number of beam protection height outline dim

40系列（光轴间距40mm,分辨率：45mm,标准型）及安装尺寸			
型号	光眼数量(个)	保护高度 (mm)	外形尺寸
LCM0184-ND40□□	4	200	25*28*184
LCM0264-ND40□□	6	280	25*28*264
LCM0344-ND40□□	8	360	25*28*344
LCM0424-ND40□□	10	440	25*28*424
LCM0504-ND40□□	12	520	25*28*504
LCM0584-ND40□□	14	600	25*28*584
LCM0664-ND40□□	16	680	25*28*664
LCM0744-ND40□□	18	760	25*28*744
LCM0824-ND40□□	20	840	25*28*824
LCM0904-ND40□□	22	920	25*28*904
LCM0984-ND40□□	24	1000	25*28*984
LCM1064-ND40□□	26	1080	25*28*1064
LCM1144-ND40□□	28	1160	25*28*1144
LCM1224-ND40□□	30	1140	25*28*1224
LCM1304-ND40□□	32	1320	25*28*1304
LCM1384-ND40□□	34	1400	25*28*1384



正视图

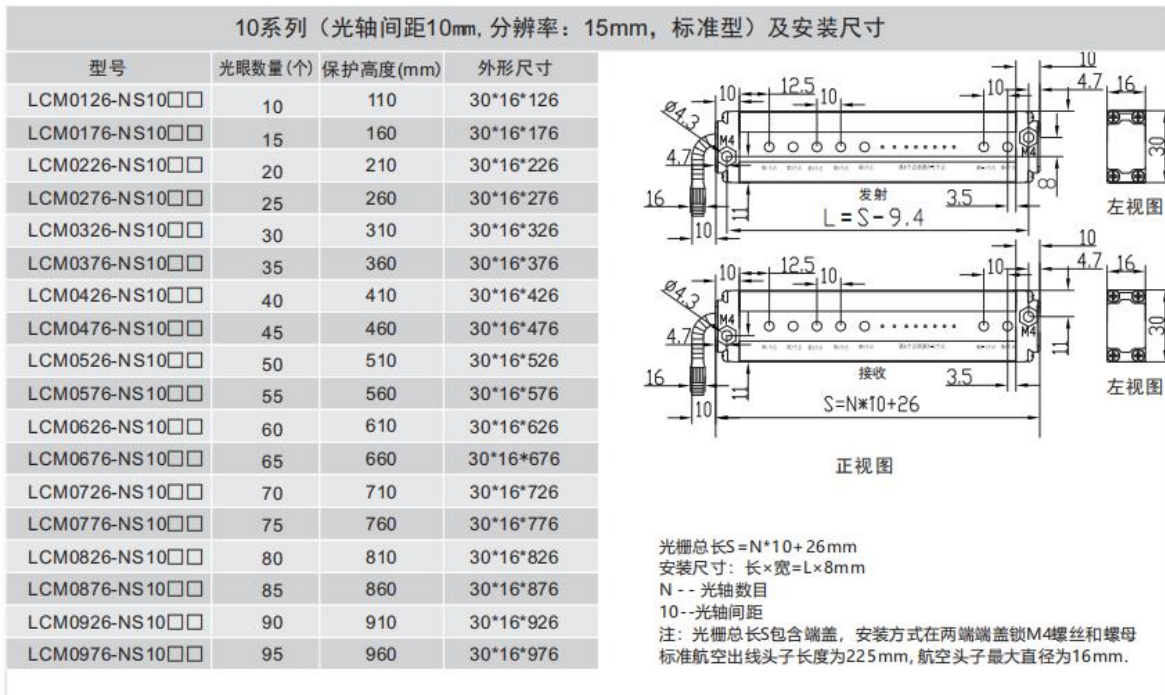
左视图

光栅总长 $S=N*40+24$ mm
 N -- 光轴数目
 40--光轴间距
 注：光栅总长S不包两头安装支架，标准航空出线头子长度为225mm，航空头子最大直径为16mm。

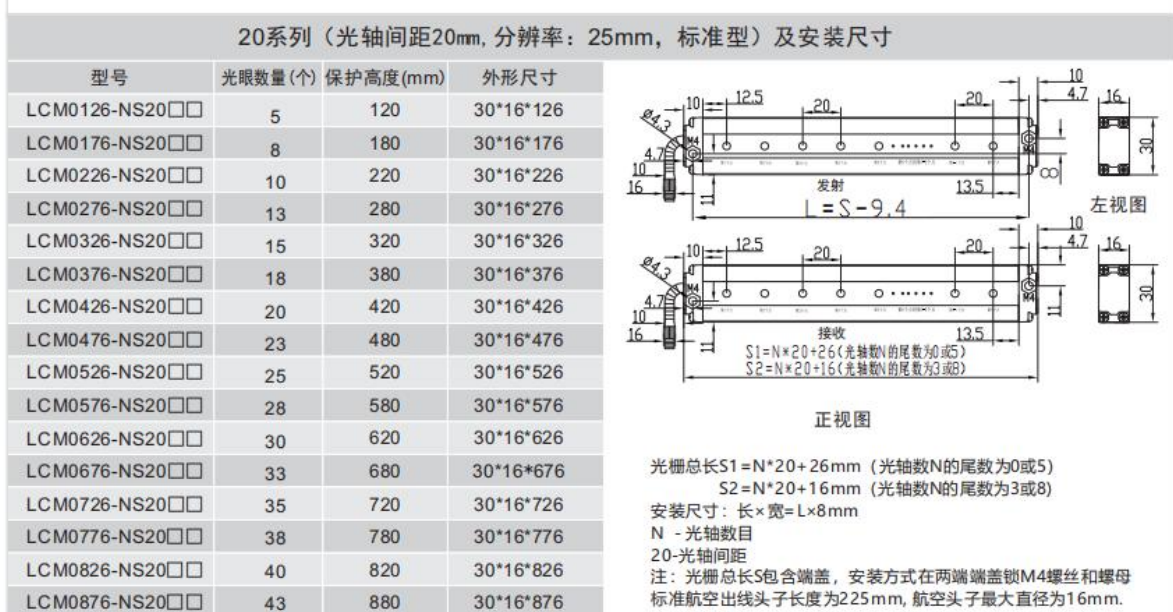
■ **LCM series miniature grating specifications and models Level output**

- ◆ Transverse size: 30*16mm
- ◆ Optical axis spacing is divided into 4 specifications: 10mm, 20mm, 25mm, 40mm
- ◆ The standard resolution is divided into: 15mm, 25mm, 30mm, 45mm 4 specifications
- ◆ Some rules are as follows:

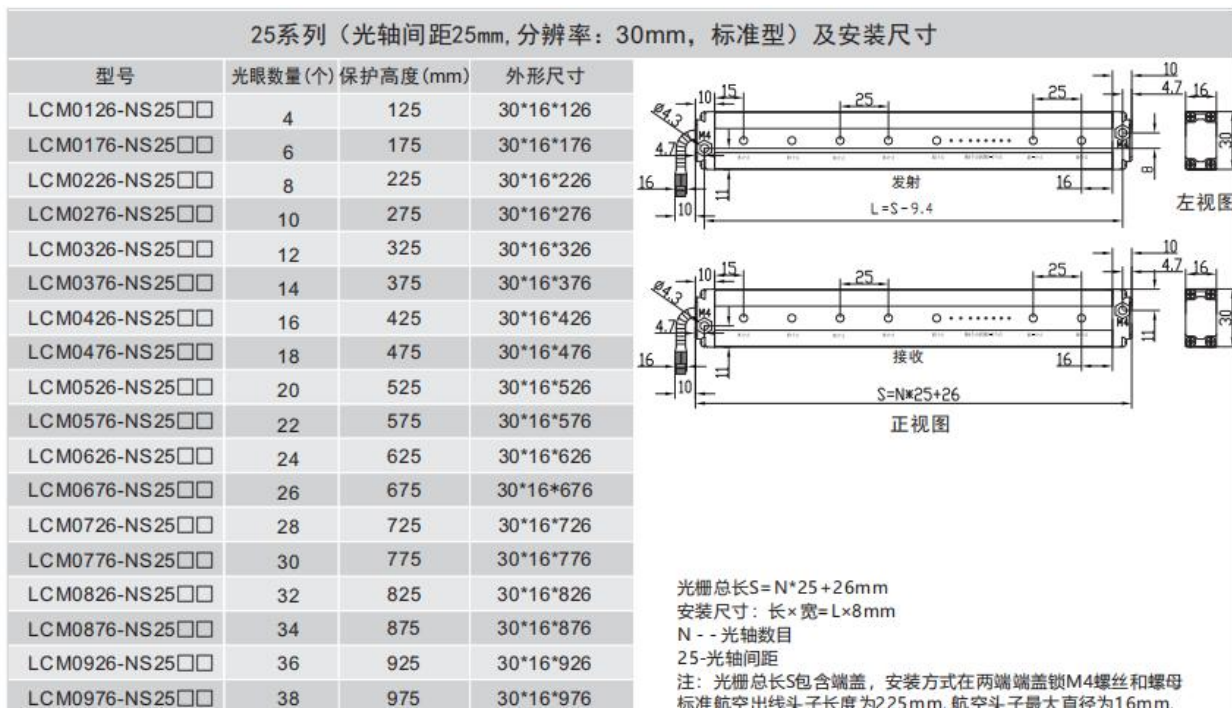
Type number of beam protection height outline dim



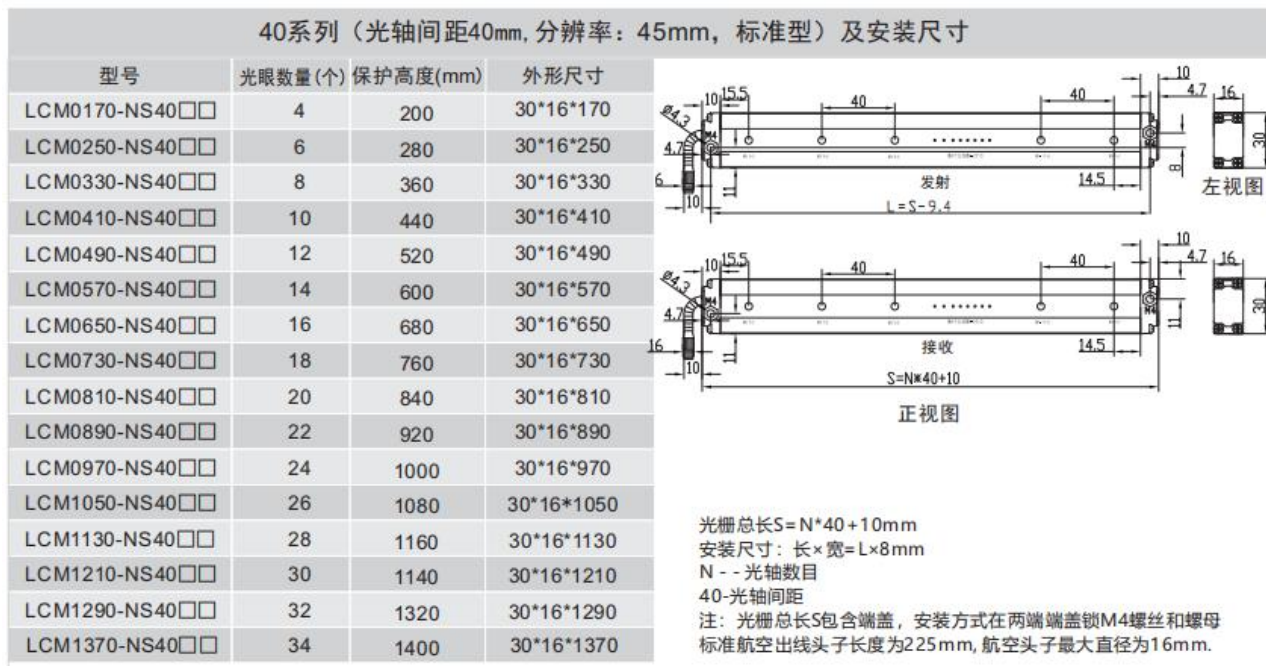
Type number of beam protection height outline dim



Type number of beam protection height outline dim



Type number of beam protection height outline dim



■ **LCM series miniature grating specifications and models Level output**

- ◆ Transverse size: 15*30mm -1
- ◆ Optical axis spacing is divided into 4 specifications: 10mm, 20mm, 25mm, 40mm
- ◆ The standard resolution is divided into: 15mm, 25mm, 30mm, 45mm 4 specifications
- ◆ Some rules are as follows:

Type number of beam protection height outline dim

10系列（光轴间距10mm,分辨率：15mm,标准型）及安装尺寸

型号	光眼数量(个)	保护高度(mm)	外形尺寸
LCM0126-N10□□	10	110	15*30*126
LCM0176-N10□□	15	160	15*30*176
LCM0226-N10□□	20	210	15*30*226
LCM0276-N10□□	25	260	15*30*276
LCM0326-N10□□	30	310	15*30*326
LCM0376-N10□□	35	360	15*30*376
LCM0426-N10□□	40	410	15*30*426
LCM0476-N10□□	45	460	15*30*476
LCM0526-N10□□	50	510	15*30*526
LCM0576-N10□□	55	560	15*30*576
LCM0626-N10□□	60	610	15*30*626
LCM0676-N10□□	65	660	15*30*676
LCM0726-N10□□	70	710	15*30*726
LCM0776-N10□□	75	760	15*30*776
LCM0826-N10□□	80	810	15*30*826
LCM0876-N10□□	85	860	15*30*876
LCM0926-N10□□	90	910	15*30*926
LCM0976-N10□□	95	960	15*30*976

光栅总长 $S = N * 10 + 25$ mm
 安装尺寸: 长*宽 = $L * 11.8$
 N -- 光轴数目
 10-光轴间距
 注: 光栅总长S包含两端安装支架, 标准航空出线头子长度为225mm, 航空头子最大直径为16mm.

Type number of beam protection height outline dim

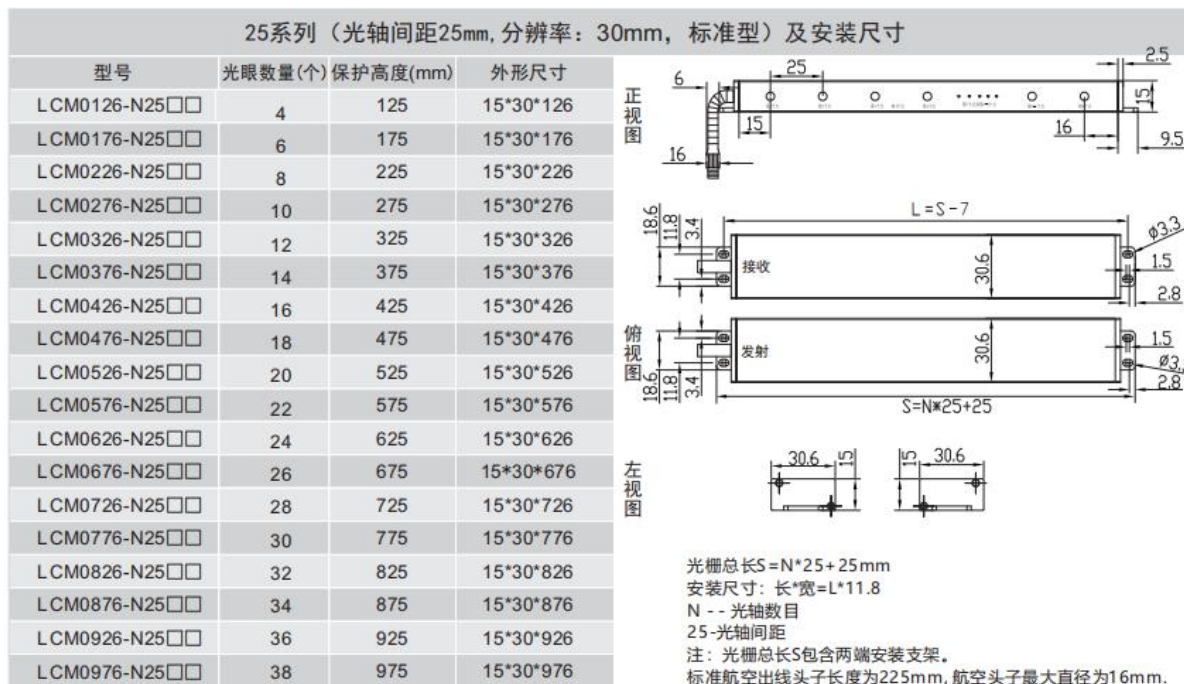
20系列（光轴间距20mm,分辨率：25mm,标准型）及安装尺寸

型号	光眼数量(个)	保护高度(mm)	外形尺寸
LCM0126-N20□□	5	120	15*30*126
LCM0176-N20□□	8	180	15*30*176
LCM0226-N20□□	10	220	15*30*226
LCM0276-N20□□	13	280	15*30*276
LCM0326-N20□□	15	320	15*30*326
LCM0376-N20□□	18	380	15*30*376
LCM0426-N20□□	20	420	15*30*426
LCM0476-N20□□	23	480	15*30*476
LCM0526-N20□□	25	520	15*30*526
LCM0576-N20□□	28	580	15*30*576
LCM0626-N20□□	30	620	15*30*626
LCM0676-N20□□	33	680	15*30*676
LCM0726-N20□□	35	720	15*30*726
LCM0776-N20□□	38	780	15*30*776
LCM0826-N20□□	40	820	15*30*826
LCM0876-N20□□	43	880	15*30*876

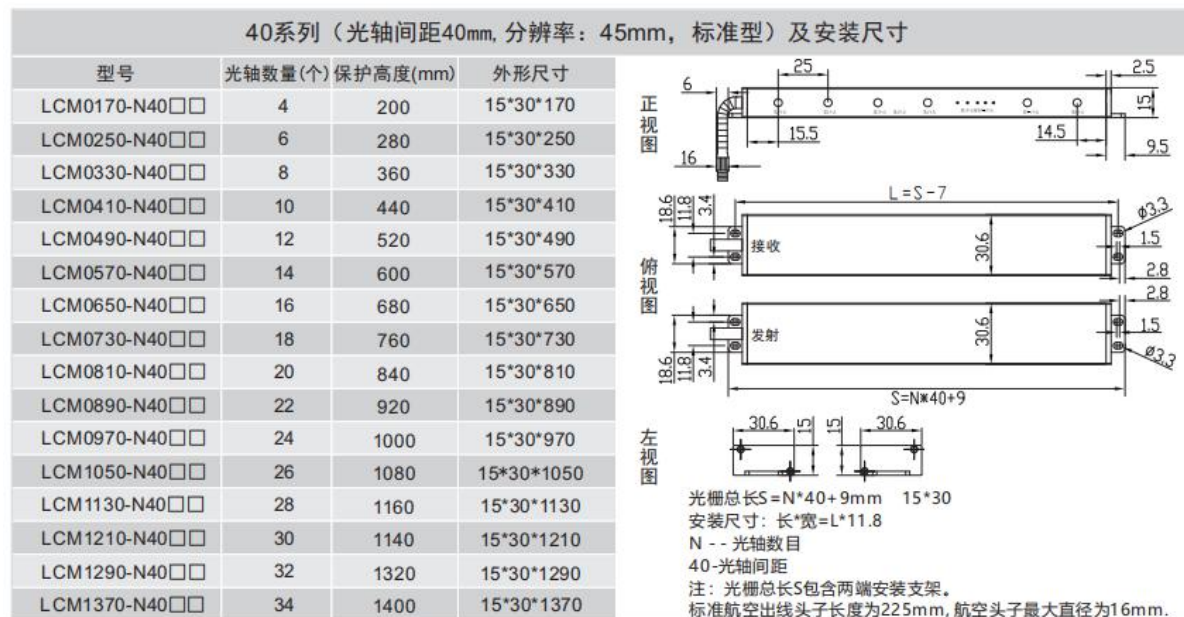
光栅总长 $S = N * 20 + 25$ mm (光轴数为0或5的尾数)
 安装尺寸: 长*宽 = $L * 11.8$
 $S = N * 20 + 15$ mm (光轴数为3或8的尾数)
 N -- 光轴数目
 20-光轴间距
 注: 光栅总长S包含两端安装支架, 标准航空出线头子长度为225mm, 航空头子最大直径为16mm.

注: ◎保护高度--能检测到测试棒(直径为间距长度)的有效高度: $(n+1) * \text{光轴间距}$

Type number of beam protection height outline dim



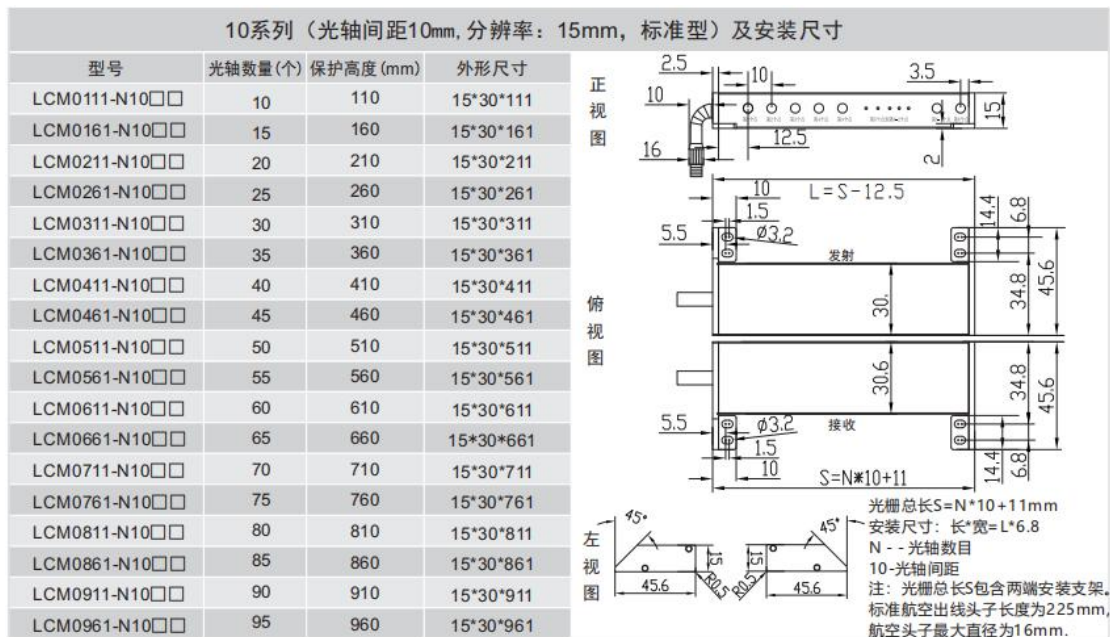
Type number of beam protection height outline dim



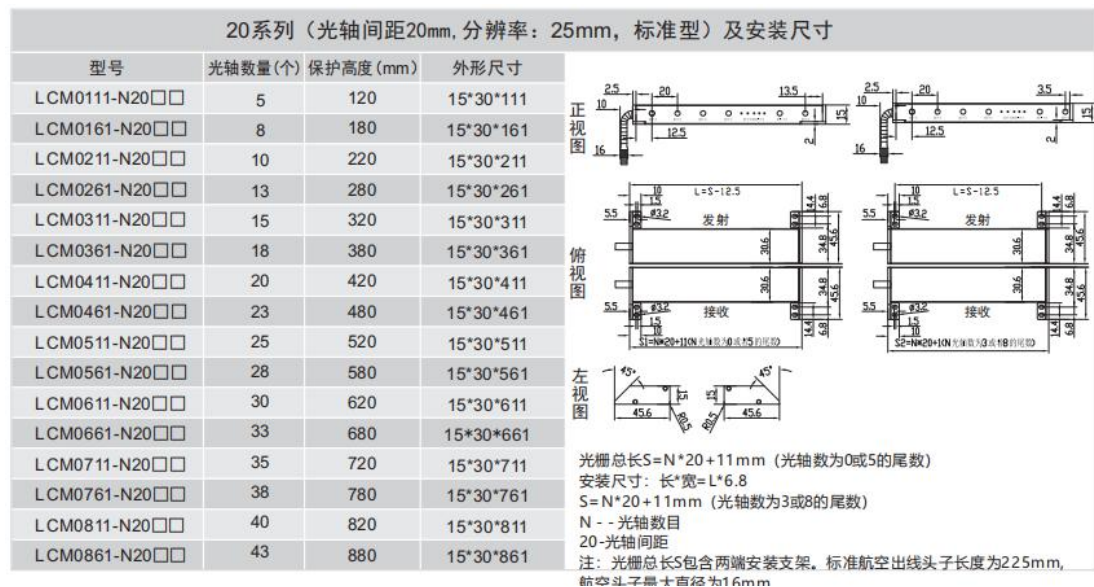
■ **LCM series miniature grating specifications and models Level output**

- ◆ Transverse size: 15*30mm -2
- ◆ Optical axis spacing is divided into 4 specifications: 10mm, 20mm, 25mm, 40mm
- ◆ The standard resolution is divided into: 15mm, 25mm, 30mm, 45mm 4 specifications
- ◆ Some rules are as follows:

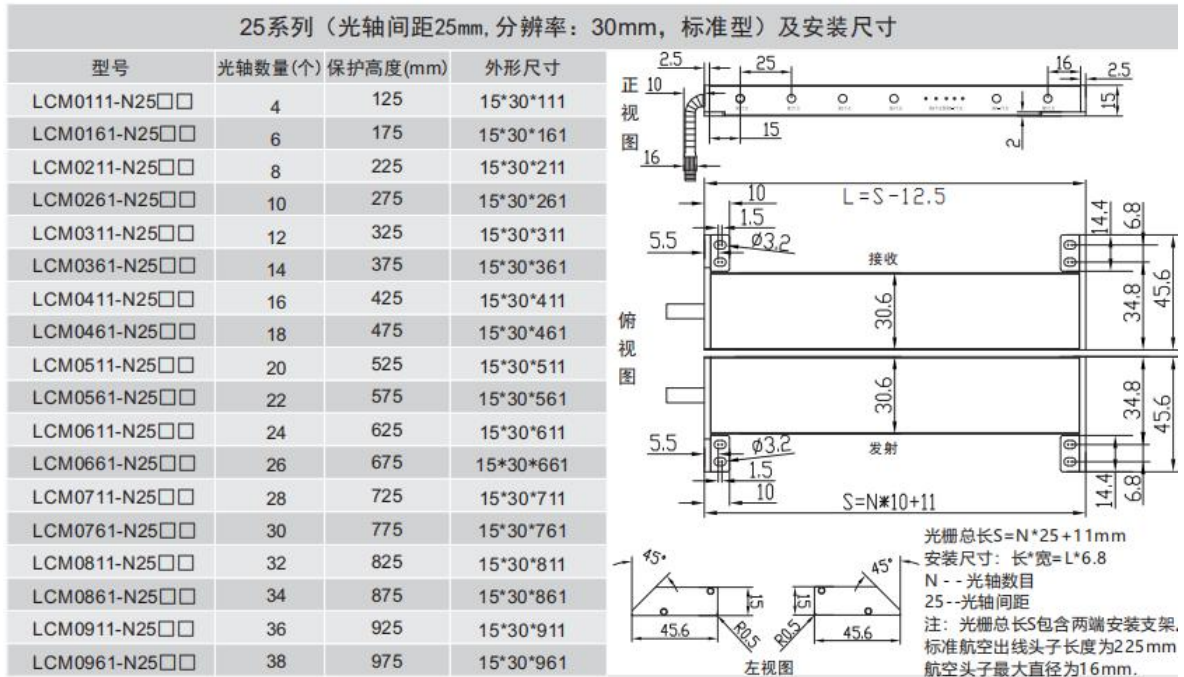
Type number of beam protection height outline dim



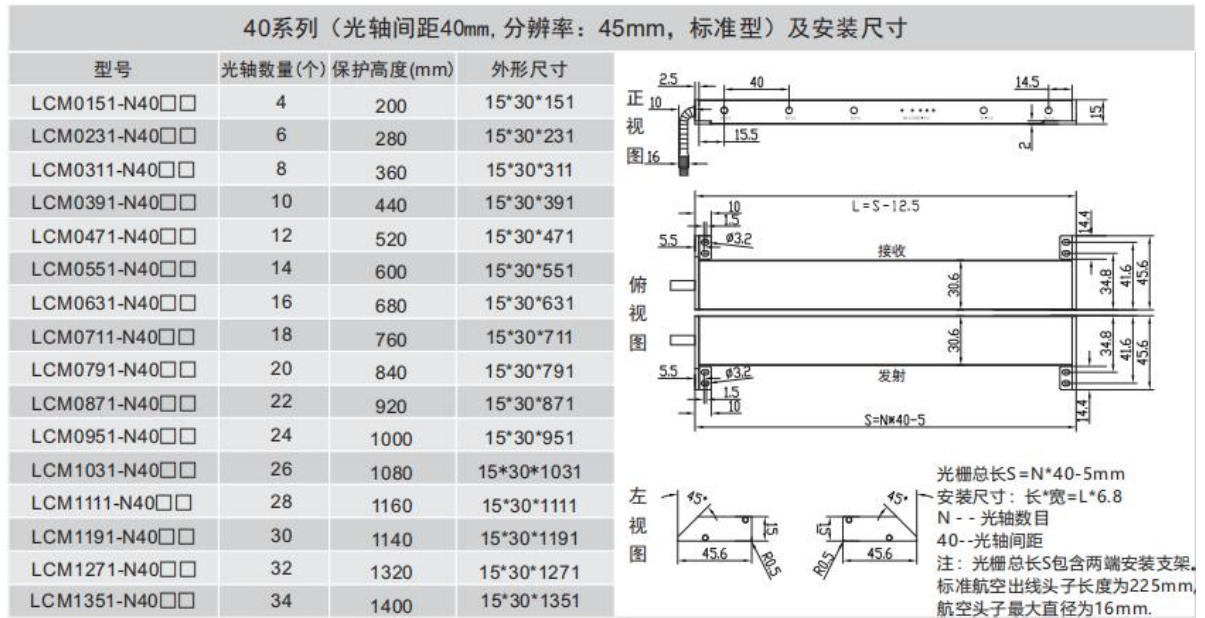
Type number of beam protection height outline dim



Type number of beam protection height outline dim



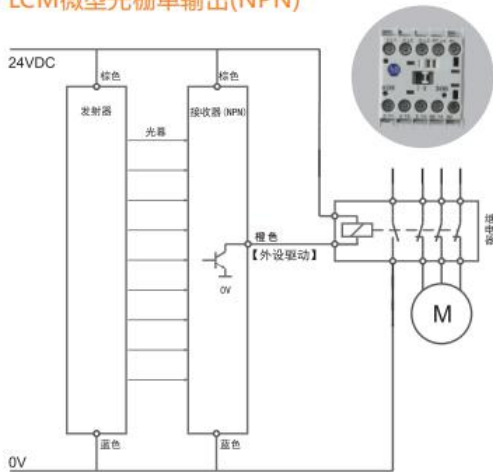
Type number of beam protection height outline dim



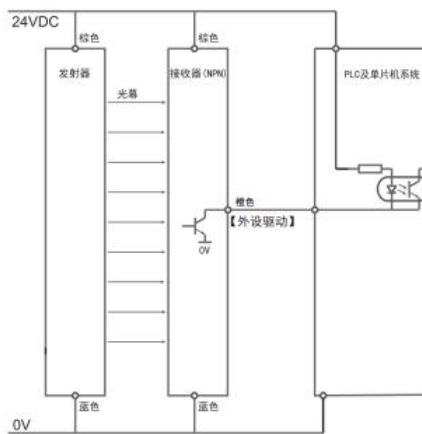
LCM miniature grating level output wiring diagram

■ LCM miniature grating single output (NPN)

■ LCM微型光栅单输出(NPN)



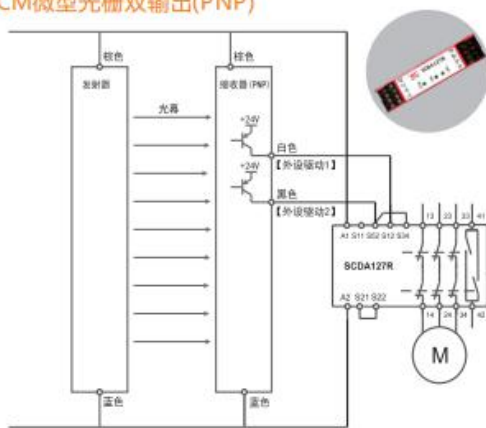
光栅与继电器接线图



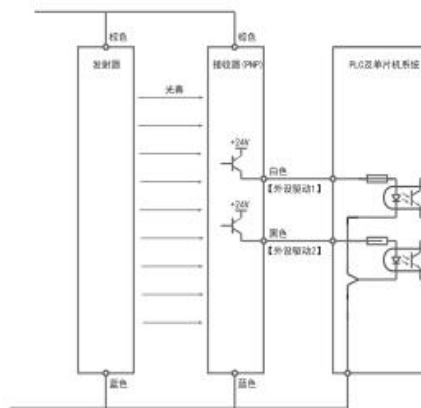
光栅与PLC接线图

■ LCM micro grating dual output (PNP)

■ LCM微型光栅双输出(PNP)



光栅与安全模块 (SCDA127R)接线图



光栅与PLC接线图

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1:www.xaori.net

2:Aalibab:https://xaori.en.alibaba.com/?spm=a2700.7756200.0.0.7c9871d2r1CwZl

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