

MICROSCAN®

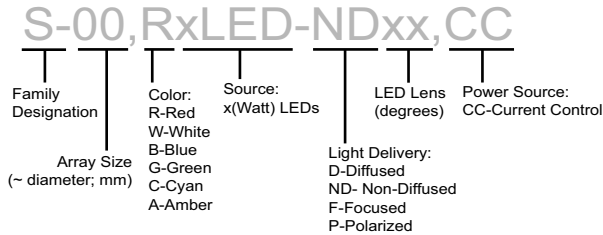
NERLITE® S-20 Series Area Array Illuminators

Description: S-20 Area Arrays employ a round or 'spot' design providing light from a specific direction onto the field of view. The direction of the illumination is dependent upon the mounting position.

Applications: S-20 Series modules may be used as dark-field (creating shadows and specular reflection), as bright-field (for diffused surfaces), or as backlighting when configured with a diffuser.

Model #	Description
NER-010656003	S-20, R 1LED-ND10, CC, 2 M (6.6 ft.) Flying Leads Cbl.
NER-010656013	S-20, W 3LED-ND10, CC, 2 M (6.6 ft.) Flying Leads Cbl.

Description Key Example



Illumination & Electrical:

Lighting Technique: Bright or Dark-field
Light Output Area: 22.5 mm (0.89 in.)
Light Characteristics:

Source	Color (nm)	Exp. Life	Max. Current ^{1,3}	
			Continuous	Strobe ^{2,3}
LED	Red (625)	50k hrs.	350 mA	0.5 A pk.
LED	White – 5500 Kelvin	50k hrs.	700 mA	1.0 A pk.

¹ When using PPxxx Controllers, controller supply voltage must be at least 1 volt higher than load voltage of light.

² 3.51 VDC for red models; 4.47 VDC for white models.

³ Maximum pulse width = 1ms, maximum frequency = 60Hz

³ Exceeding max. current, pulse width or frequency voids product warranty.

CE Conformity: TBD

Mechanical:

OD x H (mm/in.): 38.1mm x 34.8 mm
(1.50 in. x 1.37 in.)
Mounting: (2) M6 X 9.6 (.38 in.) Deep
Housing Material: Blue Anodized Aluminum
Weight: 90.7 grams (3.2 oz.)

Cables;/Connectors:

Models	w/Flying Leads
Length	2.0 M (6.6 ft.)
Connector	n/a, Flying Leads
Lead# 1	V+
Lead# 2	V-

Environmental:

Max. Operating Humidity: 95% non-condensing
Operating Temp. 40°C (104°F)
Storage Temp. 50°C (122°F)

Installation Options:¹

Part #	Description	Used on Models
NER-010503800	LC-50, 0.35A CC Dvr, 24VDC, Fixed Output ²	w/Flying Leads
NER-010503801	LC-50, 0.7A CC Dvr, 24VDC, Fixed Output ²	w/Flying Leads
NER-010503850	LC-100, 0.35A CC Dvr, 24VDC, Variable Output ²	w/Flying Leads
NER-010503851	LC-100, 0.7A CC Dvr, 24VDC, Variable Output ²	w/Flying Leads
NER-010503300	PP600, 2 Chnl. CC Cntrl, 24VDC, Push Button ²	w/Flying Leads
NER-010503301	PP610, 2 Chnl. CC Cntrl, 24VDC, PB/RS232 ²	w/Flying Leads
NER-010501402	CPS-24, 2.2A 24VDC Power Supply, US Cord	PP6xx, LC-50/100
NER-010501401	CPS-24, 2.2A 24VDC Power Supply, EU Cord	PP6xx, LC-50/100

¹ Constant Current (CC) driver or controller required; choose one from above.

² LC-xxx and PP6xx CC drivers & controllers require a DC power supply; choose one from above.

