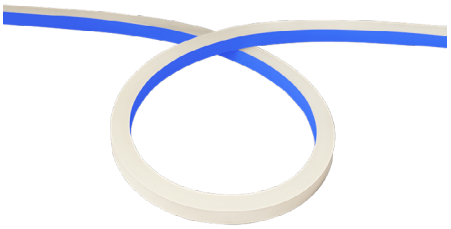
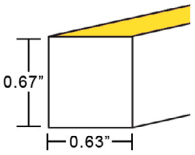
LLI ARCHITECTURAL LIGHTING

PROJECT	SPECIFIER
SKU	
QUANTITY	DATE

COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

Square Profile / Top Bending / Silicone



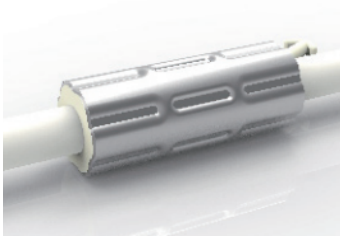


Declare · 3 YEAR LIMITED WARRANTY · cULus LISTED · RoHS · UV RESISTANT · SALTWATER RESISTANT · SOLVENT RESISTANT · FLAME RESISTANT · WET/DRY SAUNA

TECHNICAL INFORMATION

NOTE: All data has +/- 5% tolerance.

WATTAGE	1.4W per foot
IP RATING	IP68 - wet locations. Protected against temporary submersion, limited protection against harsh environments.
APPLICATION	Designed specifically for use in high ambient temperature applications such as wet or dry saunas.
PROFILE	Square
BEND ORIENTATION	Top Bending
HOUSING MATERIAL	Silicone, UV resistant per ISO 4892-3
OUTPUT	Red (618-624nm) - 11 lm/ft Green (522-528nm) - 30 lm/ft Blue (468-474nm) - 5 lm/ft RGB - 46 lm/ft
INPUT VOLTAGE	24VDC
SEGMENT LENGTH	Every 3.3", not field-cuttable
MAXIMUM RUN	32 feet
DIMENSIONS	0.63" W x 0.67" H (16mm x 17mm)
MINIMUM BEND	12" diameter
INSTALLATION TEMP.	-40°F to 122°F
OPERATING TEMP.	-40°F to 194°F
WARRANTY	3 year limited
CONTROLS	Receiver/decoder and controller required.
POWER SUPPLY	Compatible with all non-dimmable 24VDC power supplies – see power supply section of website. Consult power supply specification sheet for max. operating temperature before locating power supply.

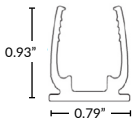


ANTI-WICKING FERRULE

Standard on all LED Neon power cables.
Located 4.5" from the connector.
Protects against water ingress and circuit board corrosion.
H 0.47" x W 1.18"

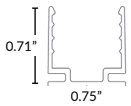
MOUNTING OPTIONS (SOLD SEPARATELY)

More clips and channel options available (see page 5-7).



Anti-Corrosion Reinforced Plastic Mounting Clip

Recommended for high humidity applications
Part Number: LLI-NS-MCL-CP-1.4IN
Dimensions: 1.4" L x 0.93" H x 0.79" W



Aluminum Mounting Clip

Part Number: LLI-NS-MCL-1.4IN
1.38" L x 0.71" H x 0.75" W

NOTE: Neon sections may be mounted end-to-end on the non-power feed end to create the appearance of longer runs. End-to-end Neon sections must have a 0.5" to 1" gap to allow for expansion/contraction.
A dark spot may be visible at <20ft viewing distance.

PART NUMBER BUILDER / ORDERING GUIDE

Example part number: LLI-NH1.4W-68-STS-RGB-24V-96in

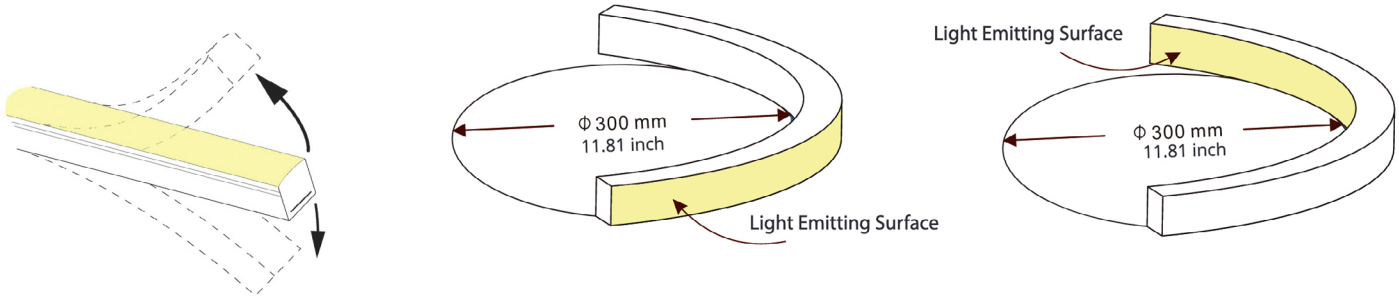
SERIES		IP RATING		TYPE		COLOR		VOLTAGE		LENGTH
LLI-NH1.4W	-	68	-	STS	-	RGB	-	24V	-	

(enter length in inches, up to 384")

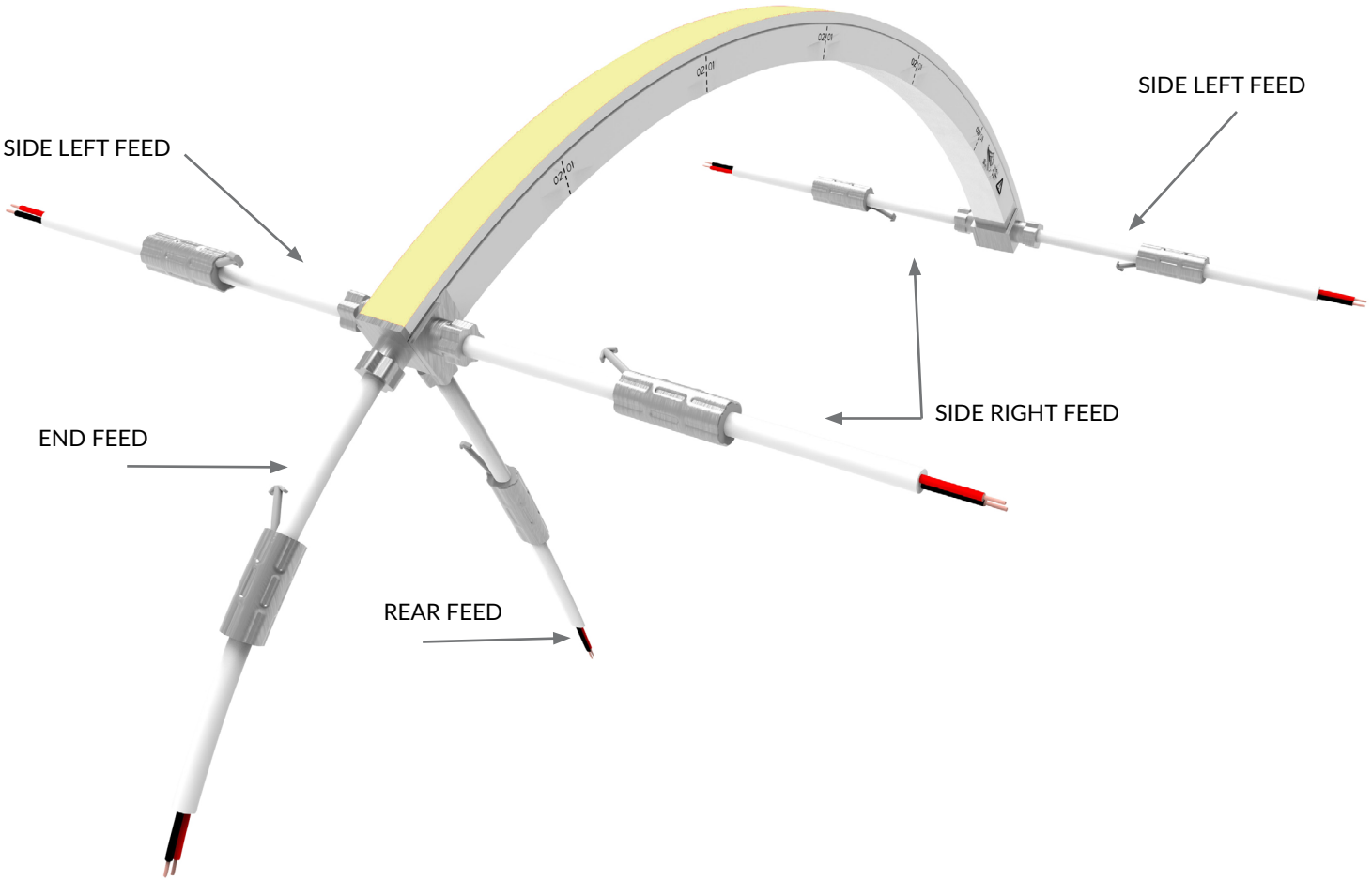
COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

Square Profile / Top Bending / Silicone

ORIENTATION & MINIMUM BEND DIAMETER



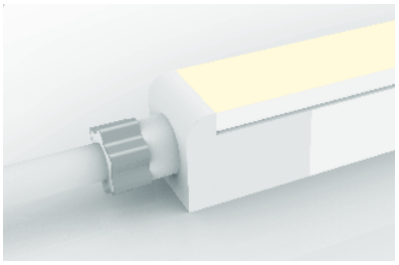
POWER FEED ORIENTATION GUIDE

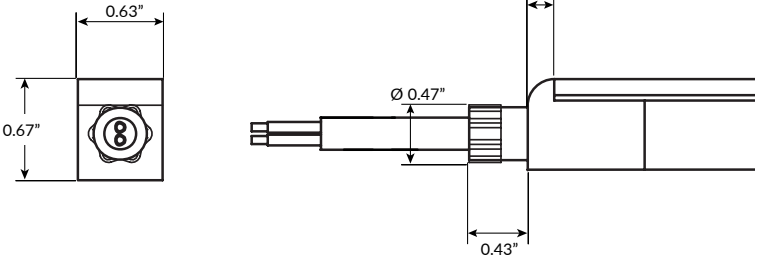


COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

Square Profile / Top Bending / Silicone

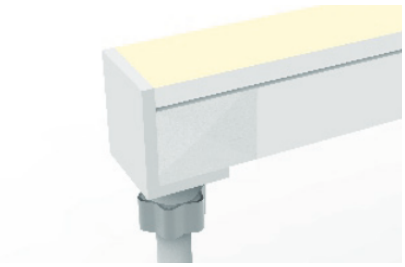
POWER FEED & TERMINATION OPTIONS (IP68)

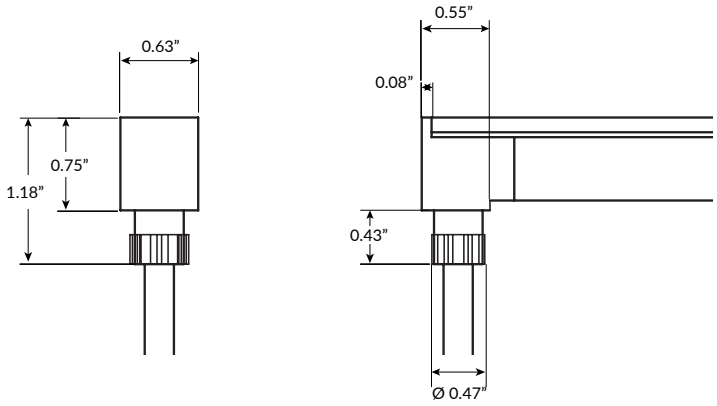




End Power Feed

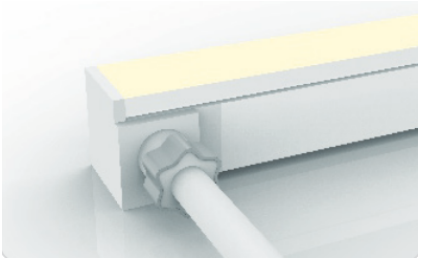
SERIES	LENGTH
LLI-NS-68-PWR4-EF	39IN 118IN 196IN 393IN

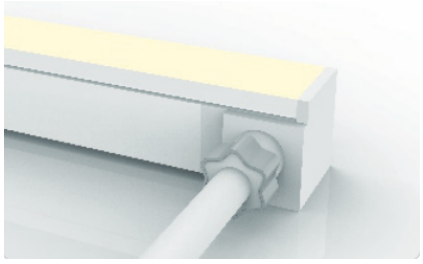


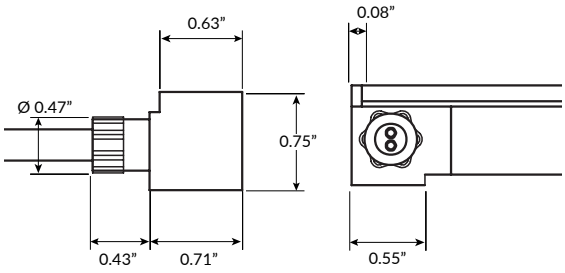


Rear Power Feed

SERIES	LENGTH
LLI-NS-68-PWR4-RF	39IN 118IN 196IN 393IN







Side Right Power Feed

SERIES	SIDE	LENGTH
LLI-NS-68-PWR4	SR	39IN 118IN 196IN 393IN

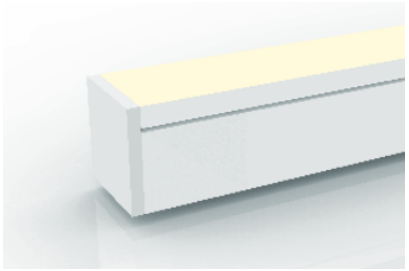
Side Left Power Feed

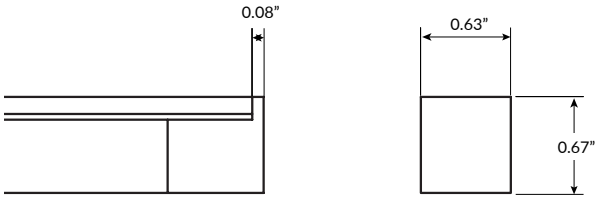
SERIES	SIDE	LENGTH
LLI-NS-68-PWR4	SL	39IN 118IN 196IN 393IN

COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

Square Profile / Top Bending / Silicone

POWER FEED & TERMINATION OPTIONS (IP68)





End Cap

SERIES

LLI-NS-68-EC

Jumper Power Connector (maximum 4 per run)

SERIES	SIDE	LENGTH (L)
LLI-NS-68-CON4	SR SL EF RF	12IN 39IN 118IN 196IN 393IN

COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

Square Profile / Top Bending / Silicone

OVERALL LENGTH / SEGMENT POINT GUIDE

Dimension tolerance of ± 1/8". Measurements listed below apply to Side Feed and Rear Feed Neon only. Add 1" to measurements below for End Feed Neon. Measurements below do not include area required for routing power wire. Add 1" distance to layout to account for routing end feed power wire.
This product expands and contracts in varying ambient temperatures. If butting Neon end-to-end, add 1/2" to 1" gap between sections for expansion.

13.4''	16.7''	20.0''	23.2''	26.5''	29.8''	33.1''	36.4''	39.6''	42.9''	46.2''	49.5''
52.7''	56.0''	59.3''	62.6''	65.9''	69.1''	72.4''	75.7''	79.0''	82.3''	85.5''	88.8''
92.1''	95.4''	98.7''	101.9''	105.2''	108.5''	111.8''	115.1''	118.3''	121.6''	124.9''	128.2''
131.5''	134.7''	138.0''	141.3''	144.6''	147.9''	151.1''	154.4''	157.7''	161.0''	164.3''	167.5''
170.8''	174.1''	177.4''	180.6''	183.9''	187.2''	190.5''	193.8''	197.0''	200.3''	203.6''	206.9''
210.2''	213.4''	216.7''	220.0''	223.3''	226.6''	229.8''	233.1''	236.4''	239.7''	243.0''	246.2''
249.5''	252.8''	256.1''	259.4''	262.6''	265.9''	269.2''	272.5''	275.8''	279.0''	282.3''	285.6''
288.9''	292.2''	295.4''	298.7''	302.0''	305.3''	308.6''	311.8''	315.1''	318.4''	321.7''	324.9''
328.2''	331.5''	334.8''	338.1''	341.3''	344.6''	347.9''	351.2''	354.5''	357.7''	361.0''	364.3''
367.6''	370.9''	374.1''	377.4''	380.7''	384.0''	387.3''	390.5''	393.8''			

MOUNTING OPTIONS

NOTE: Leave a 0.5" to 1" gap between Neon power feed and mounting channel, to avoid undue stress on power feed cables.

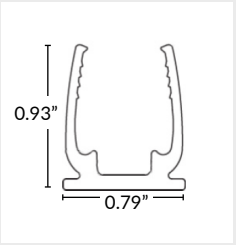
ANTI-CORROSION REINFORCED PLASTIC MOUNTING CHANNEL

Recommended for high humidity applications
Clear plastic

Mounting Clip
Recommended 2 clips every 12"
Part Number: LLI-NS-MCL-CP-1.4IN
Dimensions: 1.4" L x 0.93" H x 0.79" W

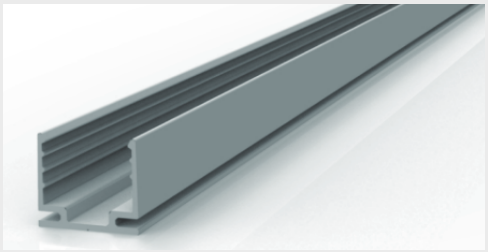
20" Mounting Channel
Part Number: LLI-NS-EXT-CP-20IN
Dimensions: 20" L x 0.93" H x 0.79" W

39" Mounting Channel
Part Number: LLI-NS-EXT-CP-39IN
Dimensions: 39.4" L x 0.93" H x 0.79" W



ALUMINUM MOUNTING CHANNEL

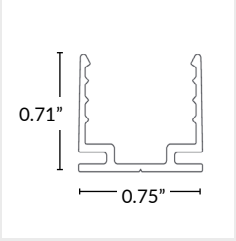
Silver anodized finish



Mounting Clip
Recommended 2 clips every 12"
Part Number: LLI-NS-MCL-1.4IN
Dimensions: 1.38" L x 0.71" H x 0.75" W

20" Mounting Channel
Part Number: LLI-NS-EXT-20IN
Dimensions: 20" L x 0.71" H x 0.75" W

39" Mounting Channel
Part Number: LLI-NS-EXT-39IN
Dimensions: 39" L x 0.71" H x 0.75" W



COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

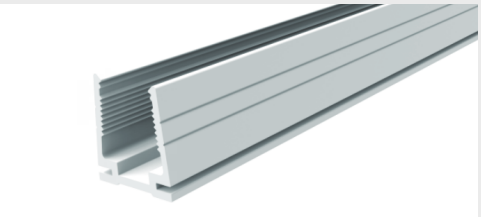
Square Profile / Top Bending / Silicone

MOUNTING OPTIONS

NOTE: Leave a 0.5” to 1” gap between Neon power feed and mounting channel, to avoid undue stress on power feed cables.

PLASTIC MOUNTING CHANNEL

White finish

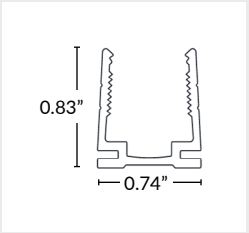


20” Mounting Channel

Part Number: LLI-NS-EXT-P-20IN
Dimensions: 20” L x 0.83” H x 0.74” W

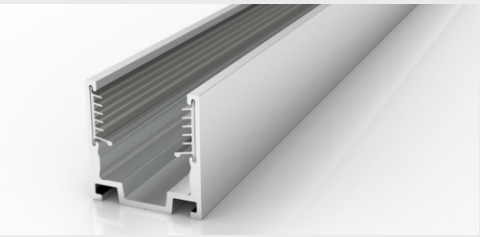
39” Mounting Channel

Part Number: LLI-NS-EXT-P-39IN
Dimensions: 39.4” L x 0.83” H x 0.74” W



SILICONE GRIP ALUMINUM MOUNTING CHANNEL

Recommended for ceiling and wall applications
Silver anodized finish



Mounting Clip

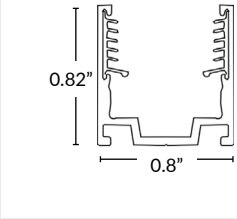
Recommended 2 clips every 12”
Part Number: LLI-NS-MCL-SG-0.8IN
Dimensions: 0.79” L x 0.82” H x 0.8” W

20” Mounting Channel

Part Number: LLI-NS-EXT-SG-20IN
Dimensions: 20” L x 0.82” H x 0.8” W

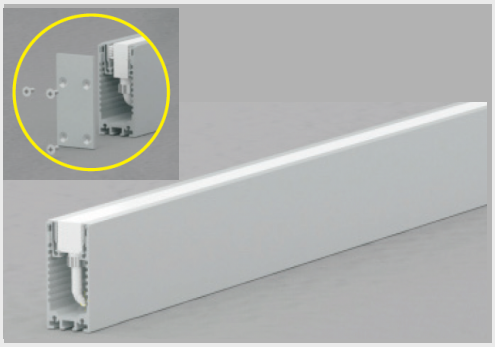
39” Mounting Channel

Part Number: LLI-NS-EXT-SG-39IN
Dimensions: 39.4” L x 0.82” H x 0.8” W



ALUMINUM RACEWAY CHANNEL WITH SILICONE GRIP

Silver anodized finish



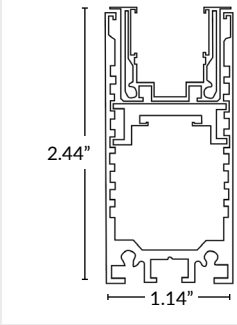
Two (2) endcaps and screws included.
Joiner bars available (sold separately).

20” Mounting Channel

Part Number: LLI-NS-EXT-RCW-SG-20IN
Dimensions: 20” L x 2.44” H x 1.14” W

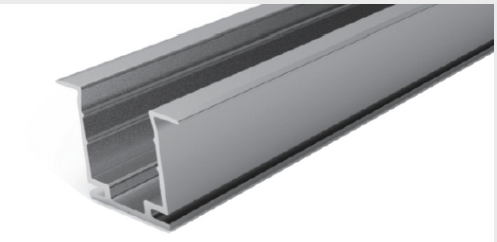
39” Mounting Channel

Part Number: LLI-NS-EXT-RCW-SG-39IN
Dimensions: 39.4” L x 2.44” H x 1.14” W



RECESSED MOUNTING CHANNEL

Silver anodized finish



Mounting Clip

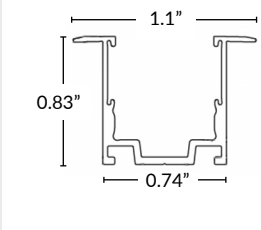
Recommended 2 clips every 12”
Part Number: LLI-NS-MCL-R-1.4IN
Dimensions: 1.38” L x 0.83” H x 1.1” W

20” Mounting Channel

Part Number: LLI-NS-EXT-R-20IN
Dimensions: 20” L x 0.83” H x 1.1” W

39” Mounting Channel

Part Number: LLI-NS-EXT-R-39IN
Dimensions: 39.4” L x 0.83” H x 1.1” W



COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

Square Profile / Top Bending / Silicone

MOUNTING CHANNELS (CONTINUED)

NOTE: Leave a 0.5” to 1” gap between Neon power feed and mounting channel, to avoid undue stress on power feed cables.

SILICONE GRIP RECESSED CHANNEL

Recommended for ceiling and wall applications
Silver anodized finish

Mounting Clip

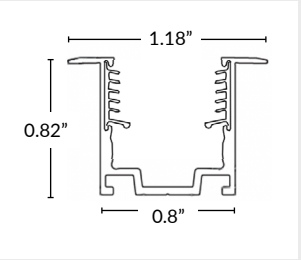
Recommended 2 clips every 12”
Part Number: LLI-NS-MCL-RSG-0.8IN
Dimensions: 0.8” L x 0.82” H x 1.18” W

20” Mounting Channel

Part Number: LLI-NS-EXT-RSG-20IN
Dimensions: 20” L x 0.82” H x 1.18” W

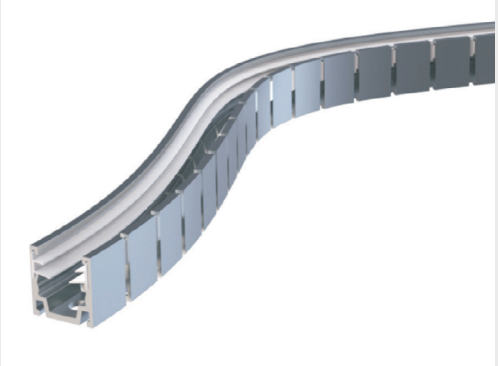
39” Mounting Channel

Part Number: LLI-NS-EXT-RSG-39IN
Dimensions: 39.4” L x 0.82” H x 1.18” W



FLEXIBLE SILICONE GRIP ALUMINUM MOUNTING CHANNEL

Silver anodized finish

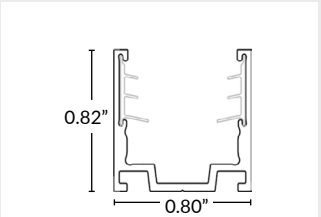


20” Mounting Channel

Part Number: LLI-NS-EXT-FSG-SB-20IN
Dimensions: 20” L x 0.82” H x 0.80” W

39” Mounting Channel

Part Number: LLI-NS-EXT-FSG-SB-39IN
Dimensions: 39” L x 0.82” H x 0.80” W

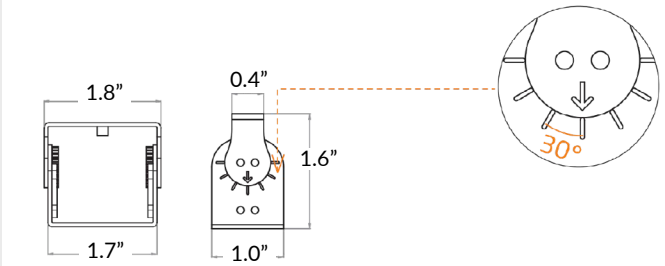


Minimum Bend Diameter
toothed side inwards: 11.8”
toothed side outwards: 11.8”

ADJUSTABLE MOUNTING BRACKET

Recommended 3 brackets for every 39” channel
Adjusts in 15° increments, notches every 30°

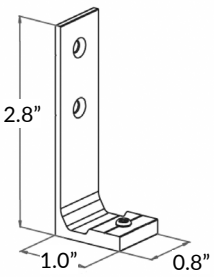
Part Number: LLI-NS-BKT-ADJ
Dimensions: 1” L x 1.6” H x 1.8” W



SIDE MOUNTING BRACKET

Recommended 2 brackets for every 20” or 39” channel
Not compatible with mounting clips

Part Number: LLI-NS-BKT-90D
Dimensions: 0.8” L x 2.8” H x 1.0” W



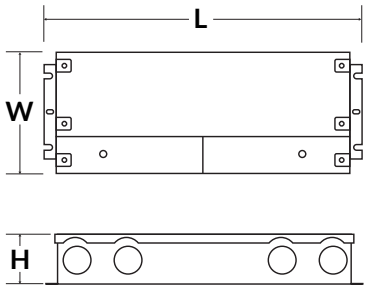
COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

Square Profile / Top Bending / Silicone

POWER SUPPLY (SOLD SEPARATELY)

NON-DIMMABLE ELECTRONIC

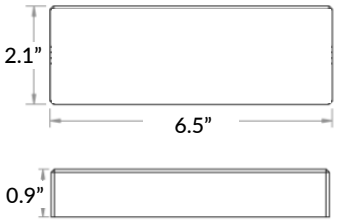
PART NUMBER	CAPACITY	INPUT	OUTPUT	CLASS	LOCATION	L	W	H
LLI-PS-NDE-030W-24V-KO	30W	100-277V	24V	CLASS 2	IP66 WET	6.5”	3.5”	1.02”
LLI-PS-NDE-060W-24V-KO	60W	100-277V	24V	CLASS 2	IP66 WET	7.4”	3.5”	1.2”
LLI-PS-NDE-096W-24V-KO	96W	100-277V	24V	CLASS 2	IP66 WET	8.7”	3.7”	1.7”
LLI-PS-NDE-192W-24V-CL2-KO	2x96W	100-277V	24V	CLASS 2	IP66 WET	10.9”	4.1”	1.9”
LLI-PS-NDE-200W-24V-KO	200W	100-277V	24V	CLASS 1	IP66 WET	10.3”	4.1”	1.8”
LLI-PS-NDE-288W-24V-CL2-KO	3x96W	100-277V	24V	CLASS 2	IP66 WET	11.9”	4.1”	1.9”
LLI-PS-NDE-300W-24V-KO	300W	100-277V	24V	CLASS 1	IP66 WET	10.9”	4.3”	1.8”



RF RECEIVER (SOLD SEPARATELY)

LLI-C-RCV-UR-RF-4CH

CONTROLLER COMPATIBILITY	Compatible with all RF LLI-C-CTRL controllers.
LED COMPATIBILITY	Static Color, Tunable White & RGB(W) LEDs
CHANNELS	4 Channel, 8 Amp
INPUT VOLTAGE	12V / 24V (power supply not included)
CAPACTIY	12V - 96W, 24V - 192W
FEATURES	Can be controlled by up to (8) controllers Can be syncronized with unlimited receivers up to 320ft away



COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

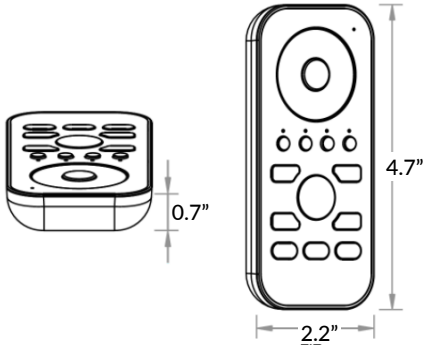
Square Profile / Top Bending / Silicone

RF CONTROLLERS (SOLD SEPARATELY)

REMOTE CONTROLLER

LLI-C-CTRL-RGBW-HH

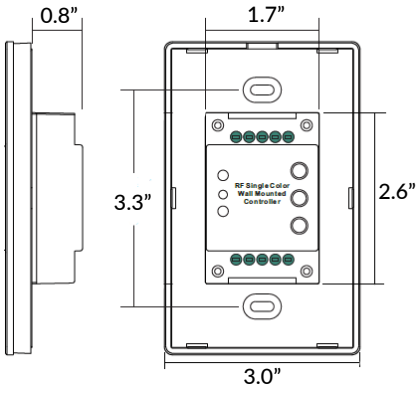
RECEIVER COMPATIBILITY	Compatible with Universal RF receivers
LED COMPATIBILITY	RGB(W) LEDs
INPUT VOLTAGE	Battery operated (3 AAA batteries not included)
FEATURES	Programmable up to 4 zones, 3 scenes Color adjustment Light intensity adjustment



TOUCH PANEL WALL CONTROLLER

LLI-C-CTRL-RGBW-TP-WH

RECEIVER COMPATIBILITY	Compatible with Universal RF receivers
LED COMPATIBILITY	RGB(W) LEDs
INPUT VOLTAGE	12V DC power supply required (not included)
FEATURES	Control range ≥ 65ft Programmable up to 3 scenes 4 color presets Color adjustment Light intensity adjustment



COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

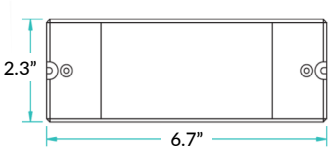
Square Profile / Top Bending / Silicone

DMX DECODERS (SOLD SEPARATELY)

DMX512 DECODER

LLI-C-DEC-DMX512-8A

LOCATION RATING	Indoor only
FUNCTION	Single color, variable white, RGB(W) LEDs
CHANNELS	4 channel output, 8 Amp maximum 512 addressable DMX channels
CAPACITY	12V - 96W maximum
	24V - 192W maximum
COMPATIBILITY	Compatible with LLI-C-CTRL-DMX controllers



POWER

Power supply not included. 12V/24V non-dimming power supply required.

RDM DMX512 DECODER

LLI-C-DEC-DMX512-8A-RDM

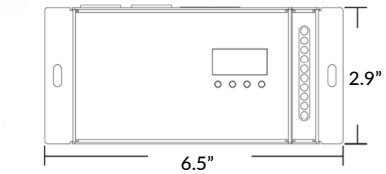
OUTPUT	8A maximum, 4 channels
LOCATION RATING	Indoor only
FUNCTION	RDM communication and PWM dimming for static white, single color, dynamic white, and RGB(W) LEDs
CHANNELS	4 channel output, 8 Amp maximum 512 addressable DMX channels
CAPACITY	12V - 96W maximum
	24V - 192W maximum
COMPATIBILITY	Compatible with LLI-C-CTRL-DMX controllers

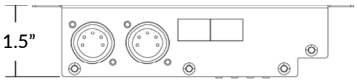
FEATURES

Can be controlled by up to eight (8) controllers. Can be synchronized with twenty (20) receivers.

POWER

Power supply not included. 12V/24V non-dimming power supply required.





COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

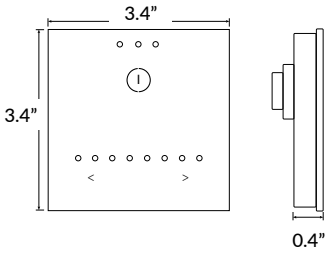
Square Profile / Top Bending / Silicone

DMX WALL CONTROLLERS (SOLD SEPARATELY)

STAND ALONE DMX WALL CONTROLLER, GU2

LLI-C-CTRL-DMX-STICK-GU2

INCLUDED IN PACKAGE	Controller, CD-ROM, USB cable, connector block, power supply
OS/COMPUTER REQUIREMENTS	Mac OSx 10.6 or higher / Windows XP or higher, USB 2.0 port
PROGRAM SOFTWARE	Easy Stand Alone, ESA2 (included)
CONNECTIONS	Power (2 pins), DMX (3 pins), Port (2 pins), Micro-USB Port
MOUNTING	Single or double gang wall box
IP RATING	IP20 - dry locations only



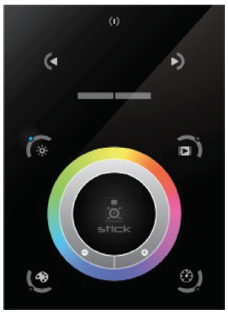
FEATURES

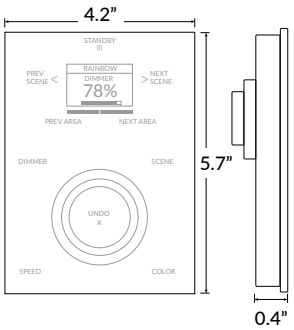
- Up to 24 dynamic or static scenes
- Wall mounted control panel with glass face, touch-sensitive buttons
- Programmable with included USB cable and software – no Ethernet or WiFi required

STAND ALONE DMX WALL CONTROLLER, DE3

LLI-C-CTRL-DMX-STICK-DE3

INCLUDED IN PACKAGE	Controller, connector block, power supply
OS/COMPUTER REQUIREMENTS	Mac OSx 10.6 or higher / Windows XP or higher / iOS phone or tablet / Android phone or tablet
PROGRAM SOFTWARE	Easy Stand Alone, ESA2 (Mac/Windows) DMX Lightpad 3 App (iOS/Android) Easy Remote App (iOS/Android)
CONNECTIONS	Power/DMX - screw terminal and RJ45 compatible Memory - MicroSD slot Programming - MicroUSB port
POWER SUPPLY	6VDC power supply (included)
MEMORY	MicroSD card (not included)
MOUNTING	Single or double gang wall box
IP RATING	IP20 - dry locations only





FEATURES

- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- Integrated clock and calendar for scheduling events
- Touch-sensitive buttons
- USB and Ethernet connectivity for programming
- Windows/Mac software for programming dynamic effects
- iPhone/iPad/Android apps for remote control and program

COLOR CHANGING RGB LED NEON - HIGH TEMP. - 24V

Square Profile / Top Bending / Silicone

DMX WALL CONTROLLERS (SOLD SEPARATELY)

STAND ALONE DMX WALL CONTROLLER, CW4

FINISH

LLI-C-CTRL-DMX-STICK-CW4 - [ ]

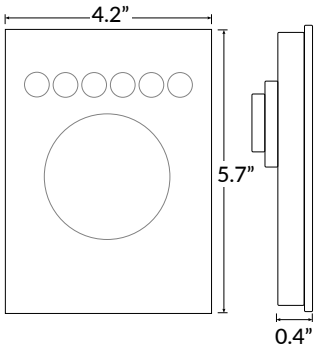
BL Black glass

WH White glass

INCLUDED IN PACKAGE	Controller, connector block, power supply, mini-USB cable, ESA2 software, ESA Pro2 Software
OS/COMPUTER REQUIREMENTS	Mac OSx 10.6 or higher / Windows XP or higher
PROGRAM SOFTWARE	Easy Stand Alone, ESA2 (Mac/Windows)
CONNECTIONS	Power/DMX - screw terminal and RJ45 Programming - miniUSB port
POWER SUPPLY	Requires 5-10VDC 0.6A power supply (included)
MEMORY	Integrated flash memory
MOUNTING	Single or double gang wall box
IP RATING	IP20 - dry locations only

FEATURES

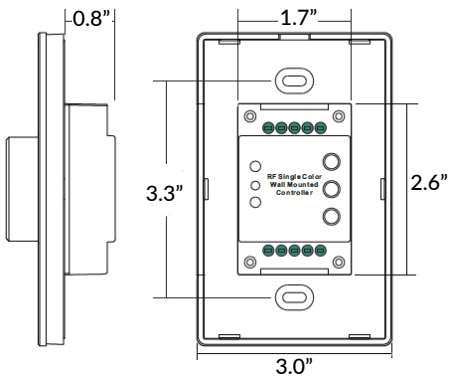
- Can be controlled directly from a computer, smartphone, or tablet
- Touch-sensitive buttons, glass face
- Up to 36 dynamic or static scenes
- 8 port triggers
- 1024 DMX channels control up to 340 RGB fixtures
- Windows/Mac software for programming dynamic effects
- Internal clock and calendar with sunrise/sunset triggering



TOUCH PANEL DMX WALL CONTROLLER

LLI-C-CTRL-DMX-RGBW-TP

LED TAPE COMPATIBILITY	Compatible with 12-24V DC LED tapes
PROTOCOL	DMX512
ZONES	3 zones
INTERFACE	Glass touch control
WARRANTY	5 year limited



POWER

Power supply for controller not included.
12V DC power supply required.