TSLC
THE SMART LIGHTING COMPANY

Date: .....
Type: .....
Project: .....
Firm: .....

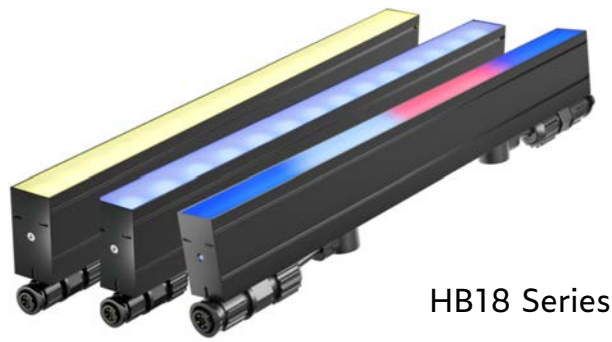


HB1856 RGBW

EXTERIOR LINEAR LED LIGHTBAR

COMPACT | LOW PROFILE | SPEC GRADE
4w/ft | 60lm/ft





HB18 Series

Cove | Accent | Wall Washing | Edge | Border | General Lighting

Experience dynamic lighting with The Smart Lighting Company HB1856 RGBW Series, a versatile LED linear fixture where exceptional performance meets cost efficiency. This DMX controlled, RGBW color-changing luminaire offers an ultra-low-profile design at only 0.79″H x 1.5″ W, making it ideal for wall washing, accent, cove, edge, border, and general illumination applications. Engineered with a universal 100/277VAC internal driver and high-quality Nichia bin-sorted LEDs, it delivers vibrant, consistent lighting that meets the rigorous standards of architects and lighting designers. The HB1856 RGBW is not only energy-efficient, producing more light with less power, but it's also durably constructed with a powder-coated black aluminum housing and removable end plates for continuous lensing. Its Plug and Play connectors ensure an IP66 rated connection, simplifying installation without compromising on quality or durability, embodying our promise of affordability and excellence in architectural lighting.

DIMMABLE IP66 LM80 TESTED LEDS CSA c UL us LISTED NICHIA

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technology by LEDpower
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HB1856 EXTERIOR LINEAR LED LIGHTBAR

SPECIFICATIONS

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PERFORMANCE

Output
4w/ft | 60lm/ft

Color Temperatures
RGBW

Beam Angles
120°

LEDs per Foot
56

LED's
Nichia bin-sorted

Color Consistency
2 SCDM

ELECTRICAL

Input Voltage
100-277vac

Power Supply
Integral

Control
DMX

Resolution
Per 6" or per fixture

Heat dissipation
Full thermal management system

Connection
Quick connect plug and play system

Projected Lumen Maintenance
>90,000 hours

PHYSICAL

Fixture Length Options
12", 24", 36", 48"

Max Run Length
277ft@277vac, 120ft@120vac

Housing
Anodized extruded aluminum

Lens
Polycarbonate diffused

Fixture Finish (Standard)
Black

Seamless Lens Connection
Removable end covers

Standard Mounting
Stainless adjustable or flat brackets

Operating Temperature
-40°F to 122°F, (-40°C to 50°C)

ENVIRONMENT AND WARRANTY

IP Rating
IP66

Environment
Dry, Damp or Wet locations
0-100% non condensing humidity

Certifications
UL, cUL

Warranty
5 year limited warranty

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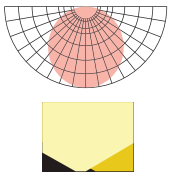
HB1828 EXTERIOR LINEAR LED LIGHTBAR

SPECIFICATIONS

THE SMART LIGHTING COMPANY

OPTICS

120°x 120°



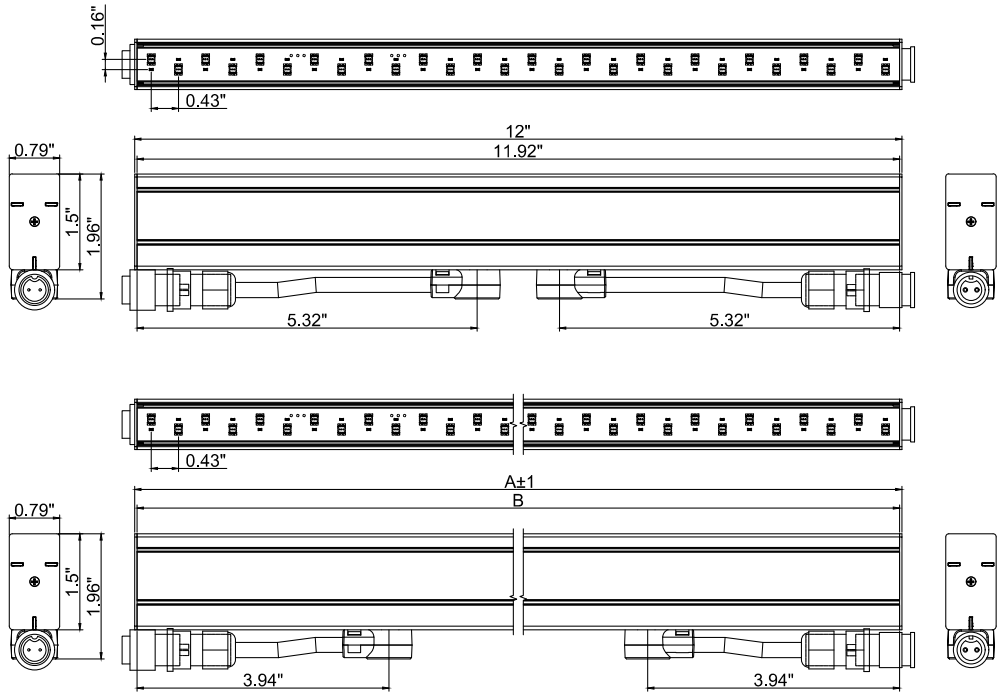
COLOR TEMPERATURES



DIMENSIONS AND DATA

4w/ft	Voltage	View Angle	Watts/ Fixture	Lumens/ Fixture	LEDs/ Fixture	Extrusion Length	Total Length
HB1856-12-RGBW-XXD-DX	100-277VAC	120°	4w	180	28(RGB)+28W	L=302.8mm	L=304.8mm (12”)
HB1856-24-RGBW-XXD-DX			8w	360	56(RGB)+56W	L=607.6mm	L=609.6mm (24”)
HB1856-36-RGBW-XXD-DX			12w	540	84(RGB)+84W	L=912.4mm	L=914.4mm (36”)
HB1856-48-RGBW-XXD-DX			16w	720	112(RGB)+112W	L=1217.2mm	L=1219.2mm (48”)

PROFILE



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HB1856 EXTERIOR LINEAR LED LIGHTBAR

ORDER FORM

Date: .....
Type: .....
Project: .....
Firm: .....

CREATE YOUR FIXTURE

Ex. HB1856-48-RGBW-120AC-DM

MODEL

HB1856

LENGTH

12”	12 inches
24”	24 inches
36”	36 inches
48”	48 inches

COLOR

RGBW	RGBW

OPTICS

120	120”x120”

VOLTAGE

AC	100-277vac

CONTROL

DM	Addressable/6"
DS	Addressable/fixture

SELECT CONNECTION

Wire Lead

QTY	POWER/SIGNAL	
	AL-HB5P-72”-W/L	72” (6ft) Wire lead 5pin
	AL-HB5P-xx”-W/L	xx”(CU) Wirelead 5pin

** 1 wire lead required for each run.*

End Cap

QTY		
	AL-HB3P-ENDCAP	End cap for fixture output at end of run

** 1 End cap required at the end of each run.*

Jumper Cable

QTY	POWER/SIGNAL	
	AL-HB5P-12”-J	12” (1ft) jumper 5pin
	AL-HB5P-72”-J	72” (6ft) jumper 5pin
	AL-HB5P-xx”-J	xx” (CU) jumper 5pin

** Fixtures are end to end connected. Use jumpers if space is needed between fixtures.*

SELECT MOUNTING

QTY	MOUNTING BRACKETS - 2 PER FIXTURE	
	AL-HB18-ADJ BRACKET	HB18 Adjustable bracket
	AL-HB18-FLAT BRACKET	HB18 Flat bracket

ADDITIONAL OPTIONS

Surge Protection

QTY		
	LSP4-UNV	120/277v surge protector

Junction Boxes

QTY		
	AC4A-3WB1-M	Power and signal splitter w/5p output
	AC4A-3WB2-M	AC Power amplifier for long run lengths
	AC4A-3WB3-M	Power and Wire lead signal splitter

** Used in place of wire leads to separate power and signal*

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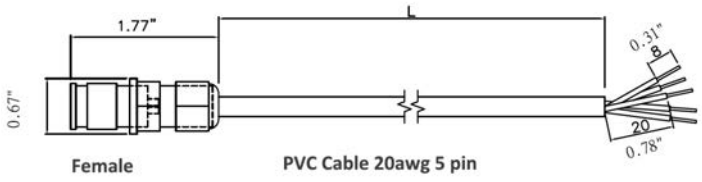
HB18 SERIES

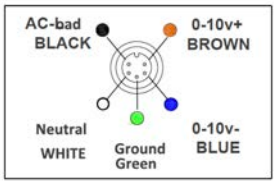
WIRING OPTIONS

WIRE LEAD

DESCRIPTION
5 pin power / signal wire

PART NUMBER
AL-HB5P-xx”-W/L

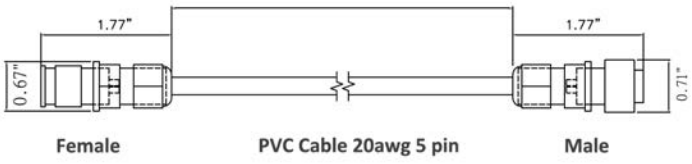


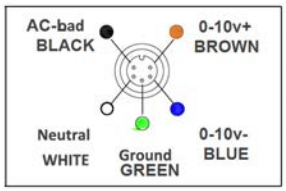


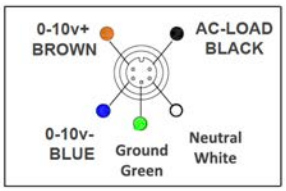
JUMPER CABLE

DESCRIPTION
5 pin power / signal jumper

PART NUMBER
AL-HB5P-xx”-W/L







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POWER/SIGNAL

DISTRIBUTION BOXES

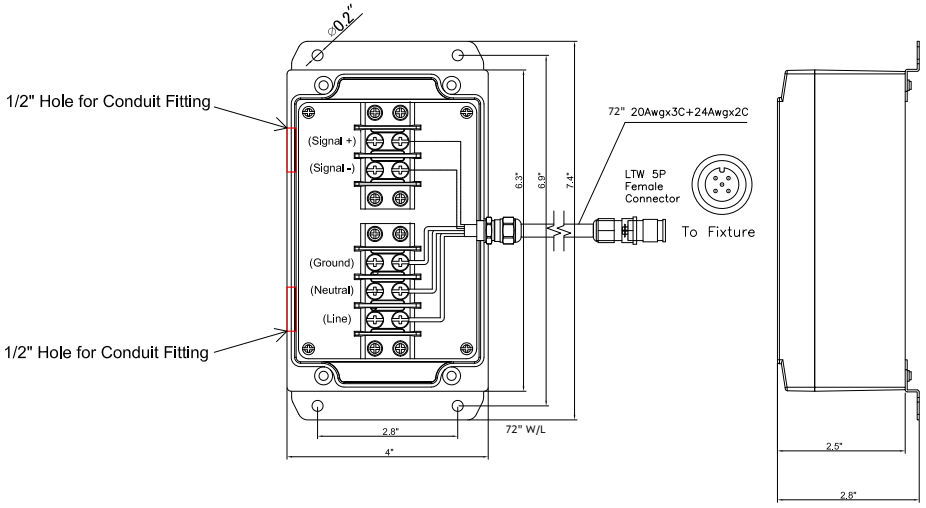
Used at the beginning of the run – All HB30 and HB40 Series

METAL JUNCTION BOX – POWER AND SIGNAL SPLITTER WITHOUT INPUT WIRES

JUNCTION BOX
AC4A-3WB1-M

INPUT
1/2" hole for conduit fitting for AC power
1/2" hole for conduit fitting for Signal

OUTPUT
72" Cable w 5P Female 5A Connector

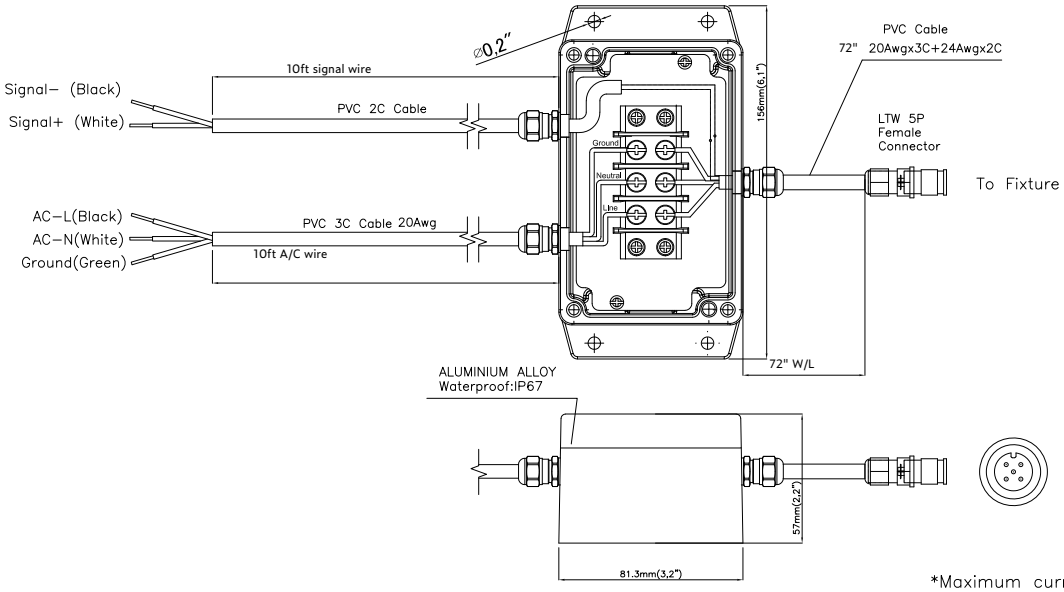


METAL JUNCTION BOX – POWER AND SIGNAL SPLITTER WITH INPUT WIRES

JUNCTION BOX
AC4A-3WB3-M

INPUT
10ft PVC 2C Cable for signal
10ft PVC 3C Cable for AC

OUTPUT
72" Cable w 5P Female 5A Connector



*Maximum current 4Amp

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POWER/SIGNAL

DISTRIBUTION BOXES

Used in the middle of the run – All HB30 and HB40 Series

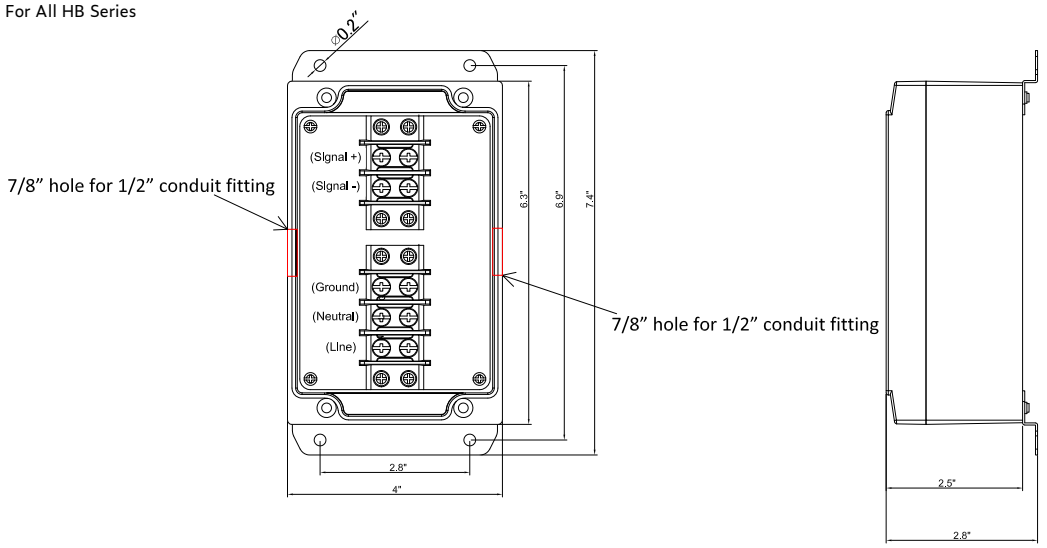
METAL JUNCTION BOX–AC POWER AND SIGNAL FOR LONG RUN LENGTHS FOR AC AND SIGNAL WIRE CONNECTION

JUNCTION BOX
AC-2WB2-M

INPUT
12” PVC Cable w/ 5P Male 5A Connector

OUTPUT
12” PVC Cable w/ 5P Female 5A Connector

For All HB Series

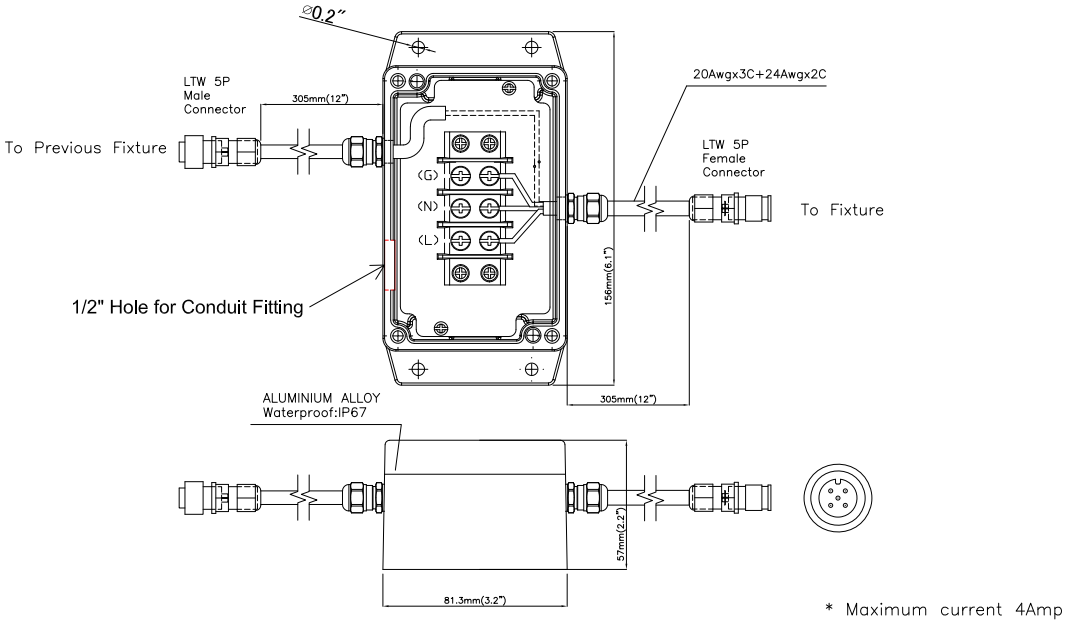


METAL JUNCTION BOX–AC POWER AMPLIFIER FOR LONG RUN LENGTHS

JUNCTION BOX
AC4A-3WB2-M

INPUT
12” PVC Cable w/ 5P Male 5A Connector

OUTPUT
12” PVC Cable w/ 5P Female 5A Connector



* Maximum current 4Amp

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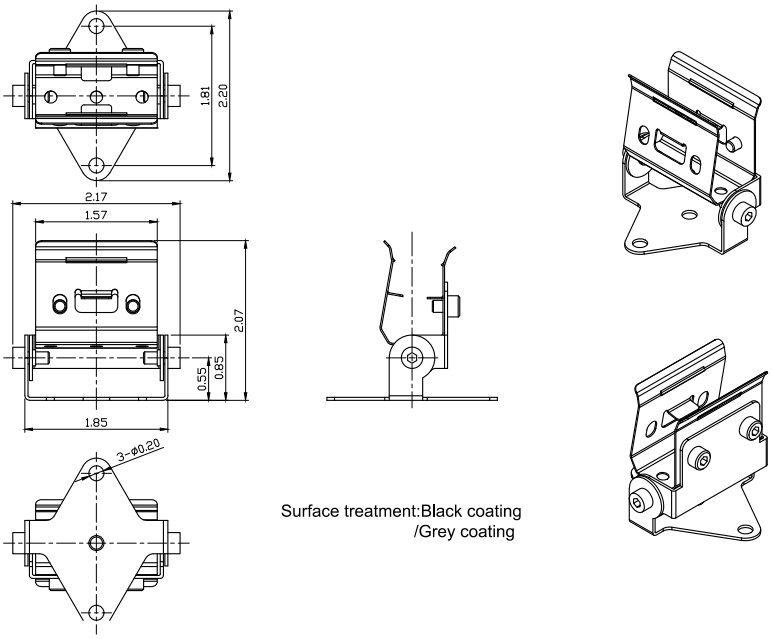
HB18 SERIES

MOUNTING BRACKETS

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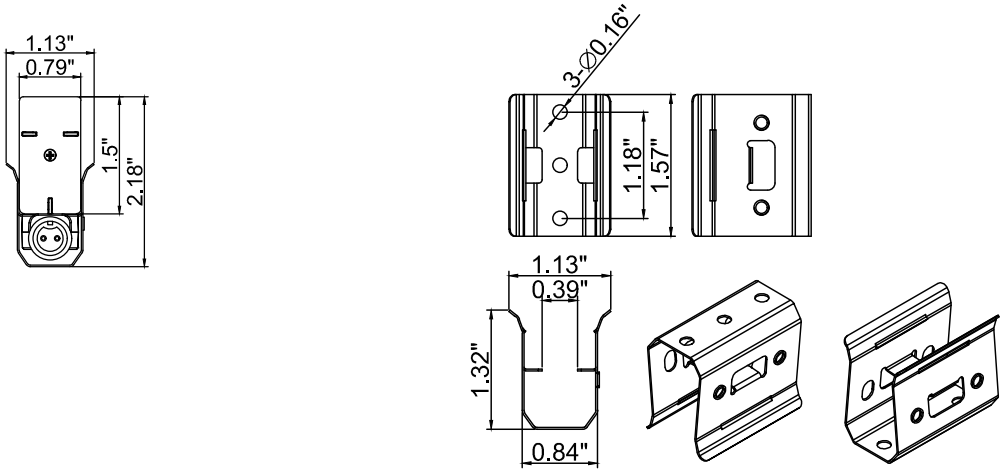
ADJUSTABLE BRACKETS

DESCRIPTION	PART NUMBER
HB18 Adjustable Bracket	AL-HB18 ADJ.Bracket



FLAT BRACKETS

DESCRIPTION	PART NUMBER
HB18Flat Bracket	AL-HB18-Flat Bracket



Clip

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SURGE PROTECTION DEVICE

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SURGE PROTECTION

DESCRIPTION
Surge Protection Device

PART NUMBER
AL-LSP-UNV

The use of a surge protection device is necessary to maintain your warranty. Specifications are subject to change without notice.

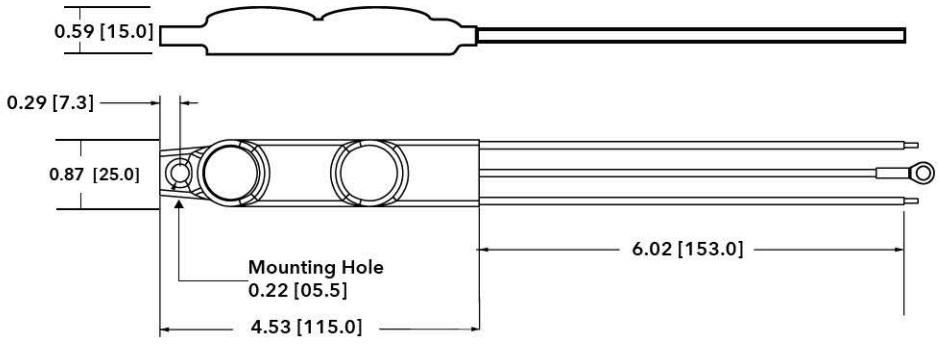
SPECIFICATIONS

Input Voltage	120-277V (+/- 5%)		
Frequency	50Hz-60Hz		
Maximum Continuous Voltage	320V		
Maximum Discharge Current	L-N 20kA; L-G, N-G 10kA (8/20Qs standard wave)		
Nominal Discharge Current	5kA		
Measured Limiting Voltage (VpK)	L-N	L-G	N-G
	1200	1320	1320
Max Case Temperature	85°C		

PULSE RATING (8 X 20 SEC)		
Surge Level	# of Strikes	
	L-N	L-G, N-G
10,000A	*2	1
6,500A	4	2
5,000A	30	15
2,000A	200	100
700A	20000	1000

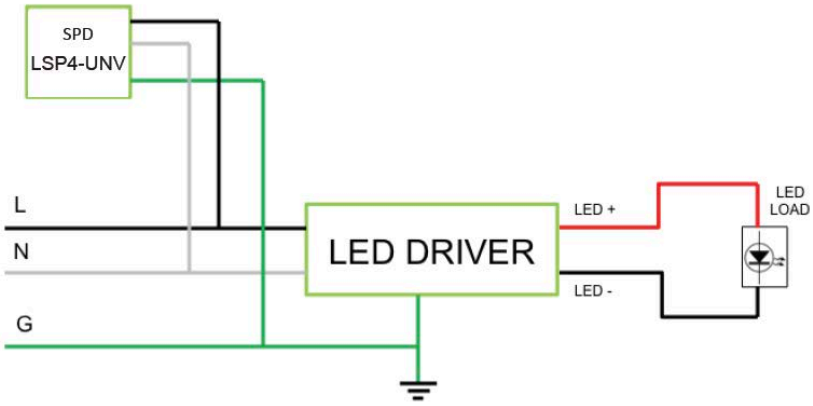
**1 strike at 20,000A*

MECHANICAL DIMENSIONS : IN (MM)





WIRING DIAGRAM



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