TSLC
THE SMART LIGHTING COMPANY
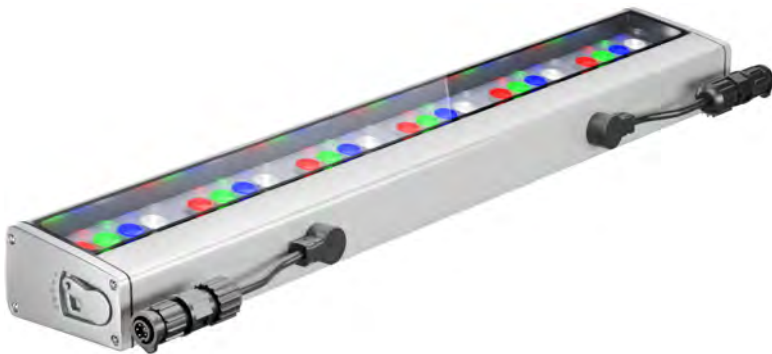
Date:
Type:
Project:
Firm:

HB40SP   RGBW

EXTERIOR LINEAR LED LIGHTBAR

POWERFUL | HIGH PERFORMANCE
13w/ft | RGBW | DMX

Graze | Wall Washing | Cove | Accent Lighting

Enhance your exterior spaces with Smart Lighting Company HB40SP RGBW, a versatile and affordable linear LED architectural luminaire. Operating at an efficient 11.9 watts per foot, this color-changing fixture is perfect for wall grazing, washing, cove, and accent lighting. It includes an integrated 20° optical adjustment feature, allowing for precise control and customization of the light direction to best highlight architectural features. Equipped with a universal 100/277VAC power supply, the HB40SP RGBW is self-addressing for easy integration with DMX controls and has a selection of static white color temperatures to complement its RGB capabilities. The use of industry-leading Nichia bin-sorted LEDs ensures a consistent and high-quality light output, making it a preferred choice for architects and lighting designers. Our in-house designed and manufactured optical lenses efficiently maximize light intensity while minimizing power usage, aligning with our commitment to sustainability and energy efficiency.

The HB40SP RGBW is available in a choice of finishes and comes with a Plug and Play system that simplifies installation, offering both power and signal connectivity in one connection.

DIMMABLE | IP66 | LM80 LEDS | CSA | c UL us LISTED | NICHIA

HB40SP EXTERIOR LINEAR LED LIGHTBAR

SPECIFICATIONS

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PERFORMANCE

Output
13w/ft | 612lm/ft

Color Temperatures
RGBW

Beam Angles
15°, 20°, 30° 45°, 120°, 30°x60°

LEDs per Foot
16 (4R, 4G, 4B, 4W) LED's/ft

LED's
Nichia bin-sorted

Color Consistency
2 SCDM

ELECTRICAL

Input Voltage
100-277vac

Power Supply
Integral

Control
DMX

Resolution
Per 9" 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
10", 19", 28", 37", 46"

Max Run Length
93ft@277vac, 36ft@120vac

Housing
Anodized extruded aluminum, tooled end caps

Lens
Polycarbonate

Fixture Finish (Standard)
Anodized aluminum

Powder Coated Finish (Optional)
Black, Bronze, White, CU

Standard Mounting
Stainless flat brackets

Optional Mounting
Extended arms (6", 12", 24")

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
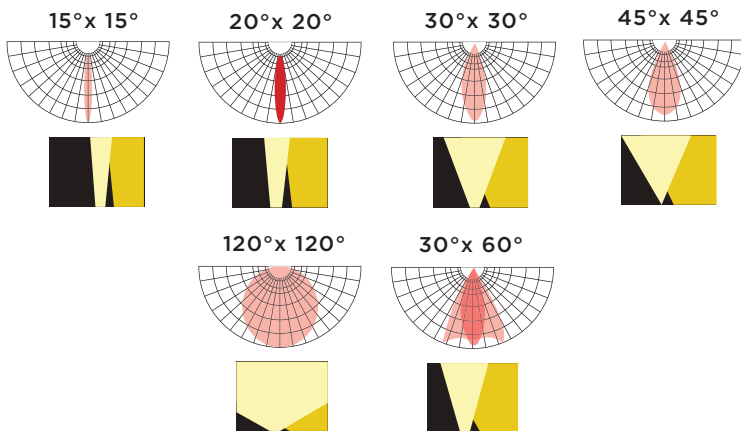
Certifications
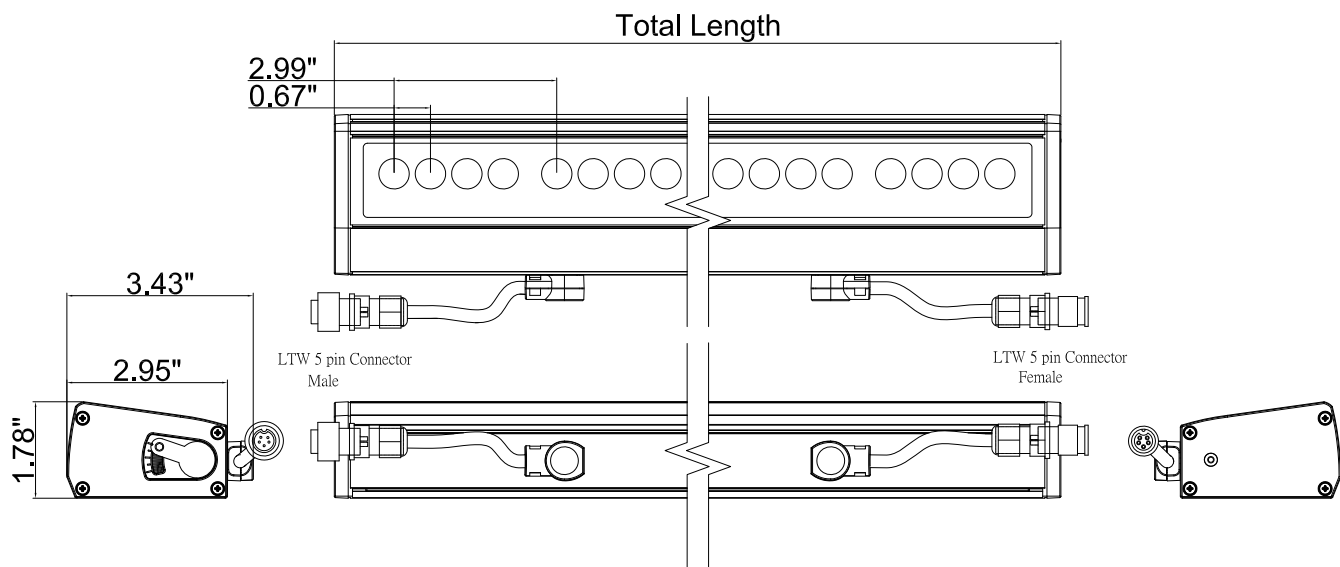UL, cUL

Warranty
5 year limited warranty

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HB40SP EXTERIOR LINEAR LED LIGHTBAR

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OPTICS

15°x 15° 20°x 20° 30°x 30° 45°x 45°

120°x 120° 30°x 60°

COLOR TEMPERATURES

RGBW

DIMENSIONS AND DATA

	Voltage	View Angle	Watts/Fixture	Lumens/Fixture	LEDs/Fixture	Extrusion Length	Total Length
HB40SP-10-RGBW-XXD-ACD	100-277VAC	15°, 20°, 30° 45°, 120° 30°x60°	10.5w	469	3R, 3G, 3B, 3W	L=244.4mm	L=259.4mm (10")
HB40SP-19-RGBW-XXD-ACD			20w	939	6R, 6B, 6G, 6W	L=473.0mm	L=488.0mm (19")
HB40SP-28-RGBW-XXD-ACD			30w	1409	9R, 9G, 9B, 9W	L=701.6mm	L=716.6mm (28")
HB40SP-37-RGBW-XXD-ACD			39w	1879	12R, 12G, 12B, 12W	L=930.2mm	L=945.2mm (37")
HB40SP-46-RGBW-XXD-ACD			48w	2348	15R, 15G, 15B, 15W	L=1158.8mm	L=1173.8mm (46")

PROFILE

Total Length

2.99"
0.67"

3.43"
2.95"
1.78"

LTW 5 pin Connector Male

LTW 5 pin Connector Female

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HB40SP EXTERIOR LINEAR LED LIGHTBAR

ORDER FORM

Date: ....

Type: ....

Project: ....

Firm: ....

CREATE YOUR FIXTURE

Ex. HB40SP–37–RGBW–3060–AC–DM

MODEL

HB40SP

LENGTH

10"	10 inches
19"	19 inches
28"	28 inches
37"	37 inches
46"	46 inches

COLOR

RGBW

Select the W - 65k is standard

27k	2700k
30k	3000k
35k	3500k
41k	4100k
50k	5000k
65k	6500k
A	Amber

OPTICS

15	15"x15"
20	20"x20"
30	30"x30"
45	45"x45"
120	120"x120"
3060	30"x60"

VOLTAGE

AC   100-277vac

CONTROL

DM   Addressable/9"

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) Wire lead 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.

ADDITIONAL OPTIONS

Optional Powder Coated Finish

QTY   Powder coated finishes available for additional cost

	BK	Black
	BZ	Bronze
	WH	White
	CU	Custom

* Fixture housing is anodized aluminum standard

Junction Boxes

QTY

	AC5A-DMX-3WB1	Power and CAT5 signal splitter
	AC5A-DMX-3WB2	AC Power amplifier for long run lengths
	AC5A-DMX-3WB3	Power and Wire lead signal splitter

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

SELECT MOUNTING

QTY   SURFACE MOUNT

| | HB47-FLT-BKT | Flat Bracket |
| | HB47-FLT BKT-JNT | Flat Bracket Jointed |

QTY   CEILING MOUNT

	HB47-2D-BKT	2 Direction Bracket
	HB47-2D BKT-JNT	2 Direction Bracket Jointed
	HB47-CM Cover-xx"	Ceiling Mount Cover set
	HB47-EC	End Covers

QTY   WALL MOUNT

	HB47-2D-BKT	2 Direction Bracket
	HB47-2D BKT-JNT	2 Direction Bracket Jointed
	HB47-CM Cover-xx"	Ceiling Mount Cover set
	HB47-EC	End Covers

QTY   WALL MOUNT WITH EXTENDED ARM*

	HB47-EXT ARM-xx"+2D-BKT	Extended arm with 2D Bracket
	HB47-EXT ARM-xx"+2D-BKT-JNT	Extended arm with 2D Bracket Jointed
	HB47-WM Cover-xx"	Wall Mount Cover set
	HB47-EC	End Covers

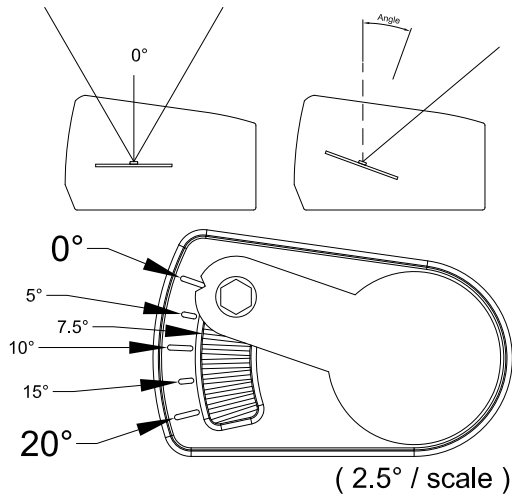** Extended arms available in 6", 12" or 24" lengths.*

DMX Controller

QTY

| | NIC-DMX-STICK-DE3 | DMX Controller |

Surge Protection

QTY

| | LSP4-UNV | 120/277v surge protector |

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HB40SP SERIES

OPTICAL BOARD ANGLE ADJUSTMENT

ANGLE BEAM UP TO 20° TOWARD THE ILLUMINATED SURFACE

0°
Angle

0°
5°
7.5°
10°
15°
20°

(2.5° / scale)
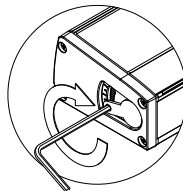
Step 1 : Loosen the screw
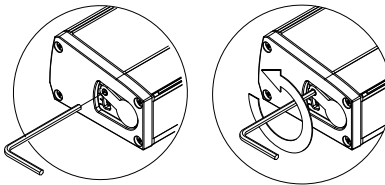
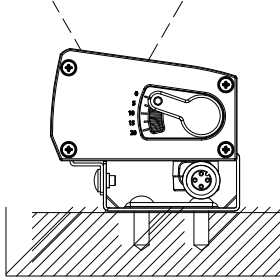

Step 2 : Adjust the angle.

Step 3 :Tighten the screw

technology by
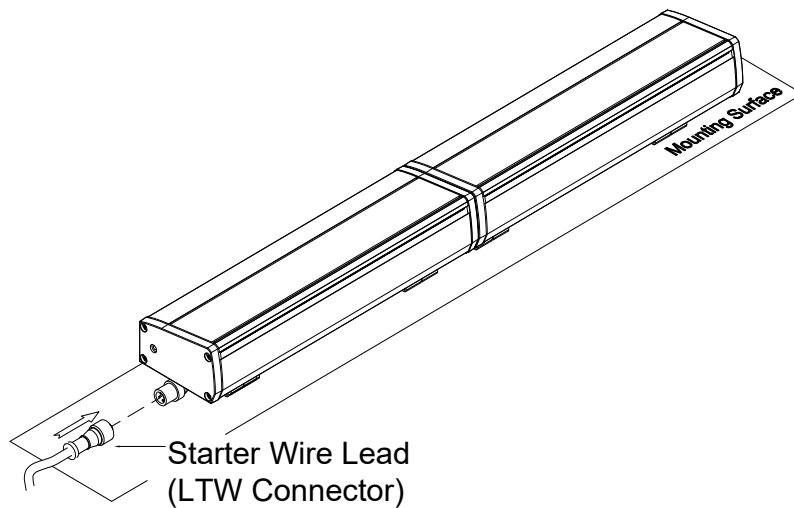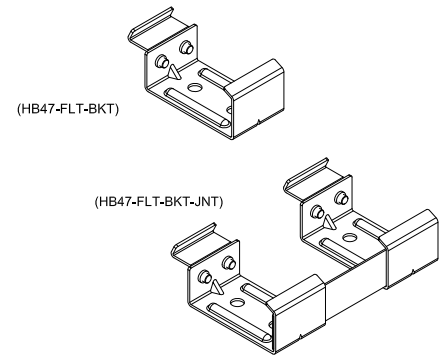LEDpower

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HB40SP SERIES

MOUNTING OPTIONS

Date: ....
Type: ....
Project: ....
Firm: ....
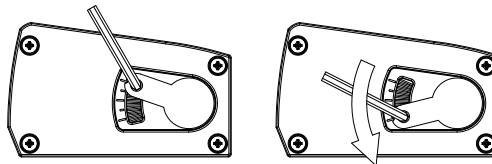
SURFACE MOUNT

PART NUMBER

HB47-FLT-BKT........... Single mounting bracket for beginning or end of a run on a stand-along fixture

1.01"
2.68"
1.22"
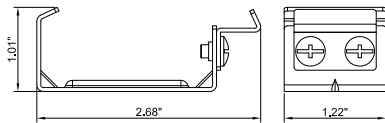
(HB47-FLT-BKT)

PART NUMBER
HB47-FLT-BKT-JNT............. Double mounting bracket to connect 2 fixtures together

1.01"
2.68"
3.98"

(HB47-FLT-BKT-JNT)

Mounting Surface

Starter Wire Lead
(LTW Connector)

HB40SP SERIES

MOUNTING OPTIONS
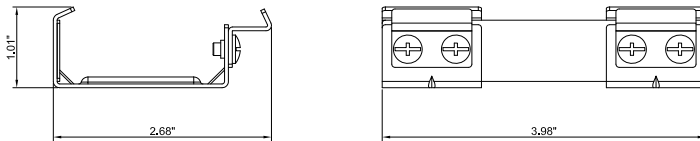
CEILING MOUNT

1. CEILING MOUNTED

PART NUMBER

HB47-2D-BKT............ Single mounting bracket for beginning or end of a run or on a stand-alone fixture

1.43"   1.77"   2.28"

(HB47-2D-BKT)

PART NUMBER
HB47-2D-BKT-JNT.......... Double mounting bracket to connect 2 fixtures together

1.43"   1.77"   6.38"

(HB47-2D-BKT-JNT)

CEILING MOUNT COVERS

PART NUMBER	ONE PER FIXTURE
HB47-CM-COVER-10"...........	10" CEILING MOUNT COVER
HB47-CM-COVER-19"...........	19" CEILING MOUNT COVER
HB47-CM-COVER-28"...........	28" CEILING MOUNT COVER
HB47-CM-COVER-37"...........	37" CEILING MOUNT COVER
HB47-CM-COVER-46"...........	46" CEILING MOUNT COVER

0.39"   Total Length   1.58"   1.45"

X 4
(M4L6 Screws)

X 1
(L-shape Cover)
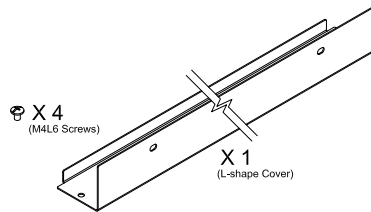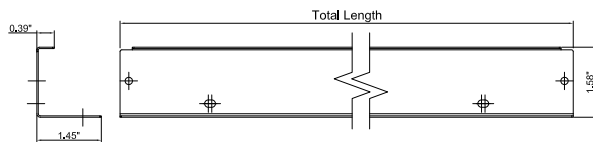
END CAPS

PART NUMBER
HB47-EC................................END CAP FOR CEILING MOUNT COVER (2 PER COVER)

1.54"   1.46"   0.39"

X 2
(End Cap)

X 2
(M4L6Screws)

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MOUNTING OPTIONS

Date:
Type:
Project:
Firm:
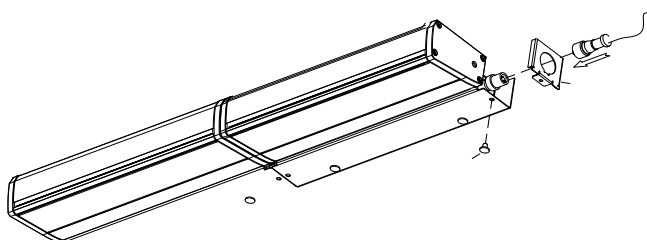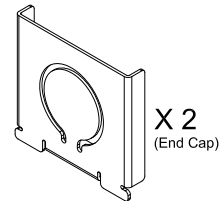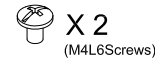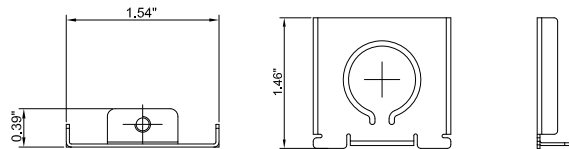
WALL MOUNT

HB47-2D-BKT.......... Single **mounting** bracket for beginning or end of a run or on a stand-alone fixture
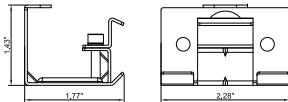
(HB47-2D-BKT)

PART NUMBER
HB47-2D-BKT-JNT.......... Double mounting bracket to connect 2 fixtures together

(HB47-2D-BKT-JNT)
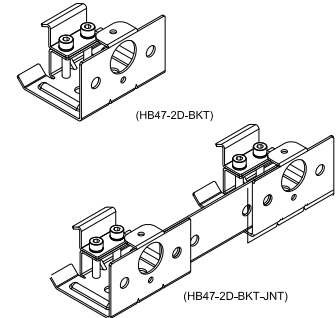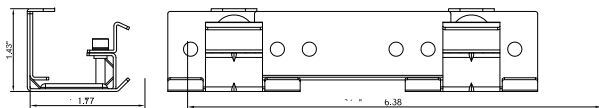
WALL MOUNT COVERS

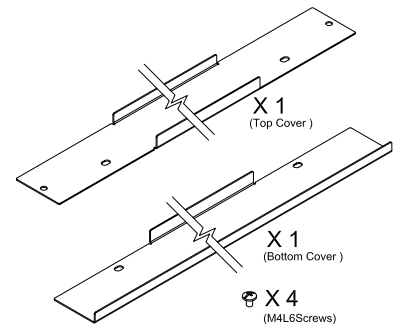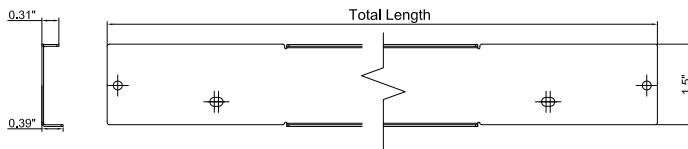| PART NUMBER	TWO PER FIXTURE ((1) TOP & (1) BOTTOM)

HB47-WM-COVER-10"...........10" WALL MOUNT COVER
HB47-WM-COVER-19"...........19" WALL MOUNT COVER
HB47-WM-COVER-28"...........28" WALL MOUNT COVER
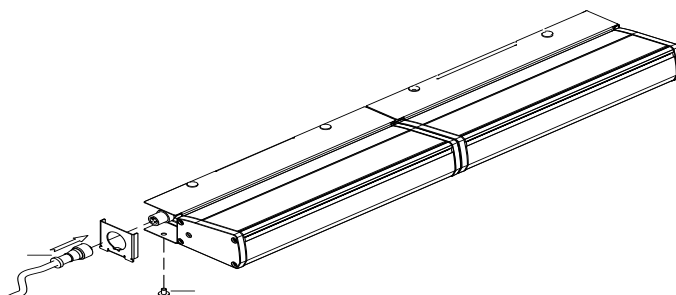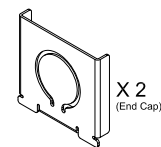**HB47-WM-COVER-37"...........**37" WALL MOUNT COVER
HB47-WM-COVER-46"...........46" WALL MOUNT COVER

Total Length

X 1
(Top Cover)

X 1
(Bottom Cover)

X 4
(M4L6Screws)

END CAPS

PART NUMBER

HB47-EC................................END CAP FOR WALL MOUNT COVER (2 PER COVER)

X 2
(M4L6Screws)

X 2
(End Cap)

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HB40SP SERIES

MOUNTING OPTIONS
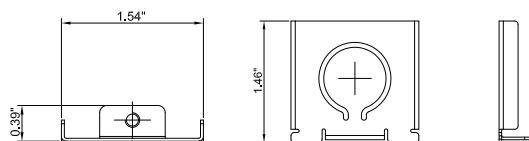
EXTENDED ARM WALL MOUNT
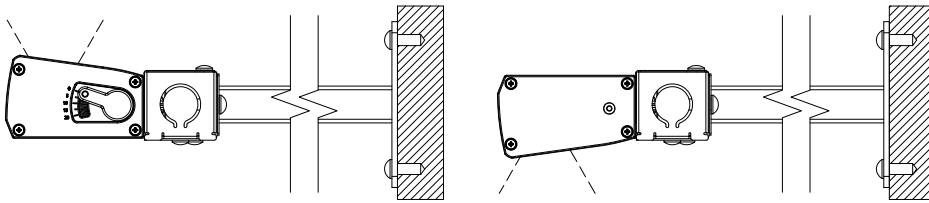
PART NUMBER

HB47-EXT ARM- 6"+2D BKT............ 6" Extended arm with single mounting bracket for beginning or end of a run or on a stand-alone fixture
HB47-EXT ARM-12"+2D BKT.......... 12" Extended arm with single mounting bracket for beginning or end of a run or on a stand-alone fixture
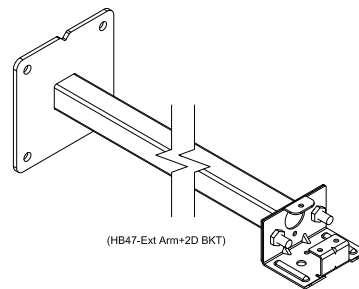**HB47-EXT ARM-24"+2D BKT..........** 24" Extended arm with single mounting bracket for beginning or end of a run or on a stand-alone fixture

3.54"

3.54"

Ø0.26" x4

Total Length

(HB47-Ext Arm+2D BKT)

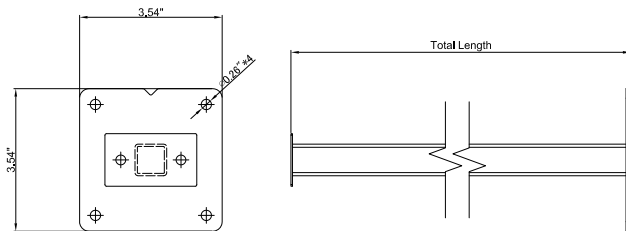### EXTENDED ARMS FOR DOUBLE BRACKET MOUNT

PART NUMBER

HB47-EXT ARM- 6"+2D BKT-JNT......... 6" Extended arm with single mounting bracket for beginning or end of a run or on a stand-alone fixture
HB47-EXT ARM-12"+2D BKT-JNT...... 12" Extended arm with single mounting bracket for beginning or end of a run or on a stand-alone fixture
HB47-EXT ARM-24"+2D BKT-JNT...... 24" Extended arm with single mounting bracket for beginning or end of a run or on a stand-alone fixture
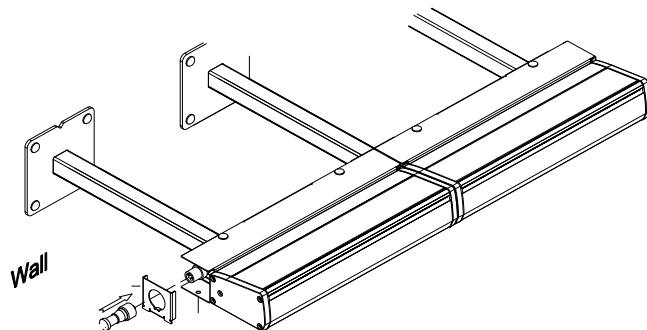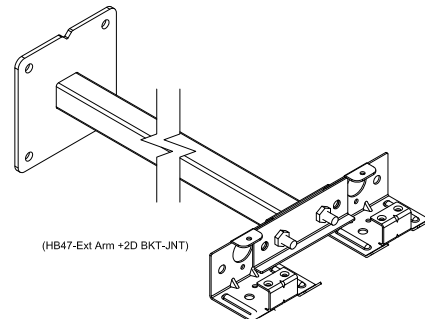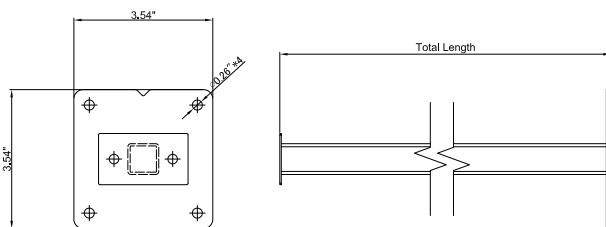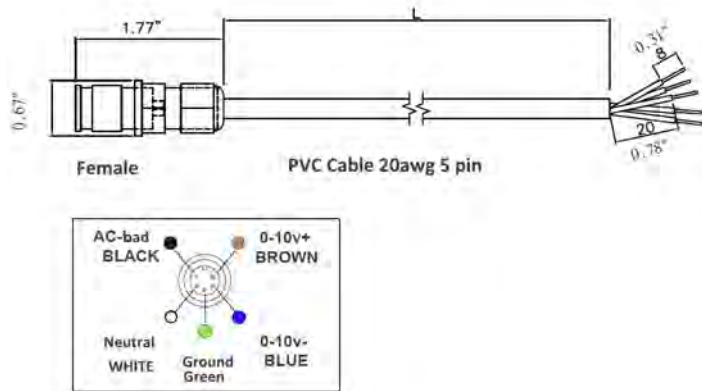

3.54"

3.54"

Ø0.26" x4

Total Length

(HB47-Ext Arm +2D BKT-JNT)

Wall

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WIRE LEAD

DESCRIPTION
5 pin power / signal wire

PART NUMBER
AL-HB5P-xx"-W/L

Female   PVC Cable 20awg 5 pin

AC-bad BLACK   0-10v+ BROWN
Neutral WHITE   Ground Green   0-10v- BLUE

JUMPER CABLE

DESCRIPTION
5 pin power / signal jumper

PART NUMBER
AL-HB5P-xx"-W/L

Female   PVC Cable 20awg 5 pin   Male

AC-bad BLACK   0-10v+ BROWN
Neutral WHITE   Ground GREEN   0-10v- BLUE

0-10v+ BROWN   AC-LOAD BLACK
0-10v- BLUE   Ground Green   Neutral White

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POWER/SIGNAL

DISTRIBUTION BOXES

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JUNCTION BOX – POWER AND CAT5 SIGNAL SPLITTER
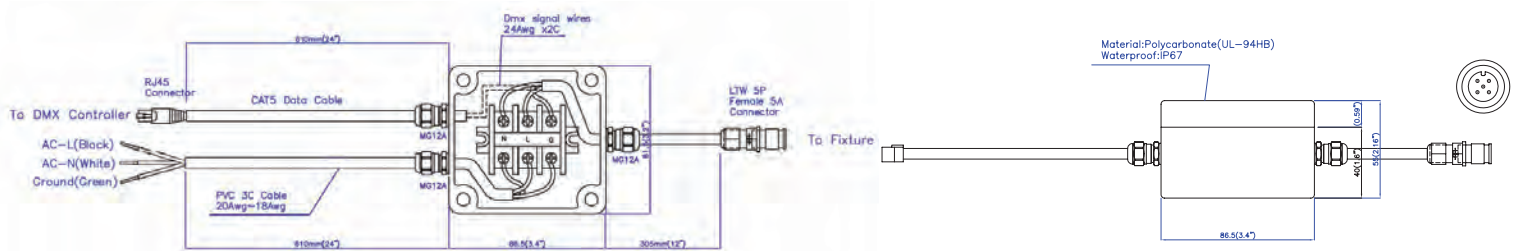
JUNCTION BOX

AC5A-DMX-3WB1

INPUT

24" PVC Cat5 Cable for DMX Data 24" PVC Cable (3 leads) for AC Power

OUTPUT

12" Cable w 5P Female 5A Connector

JUNCTION BOX–AC POWER AMPLIFIER FOR LONG RUN LENGTHS
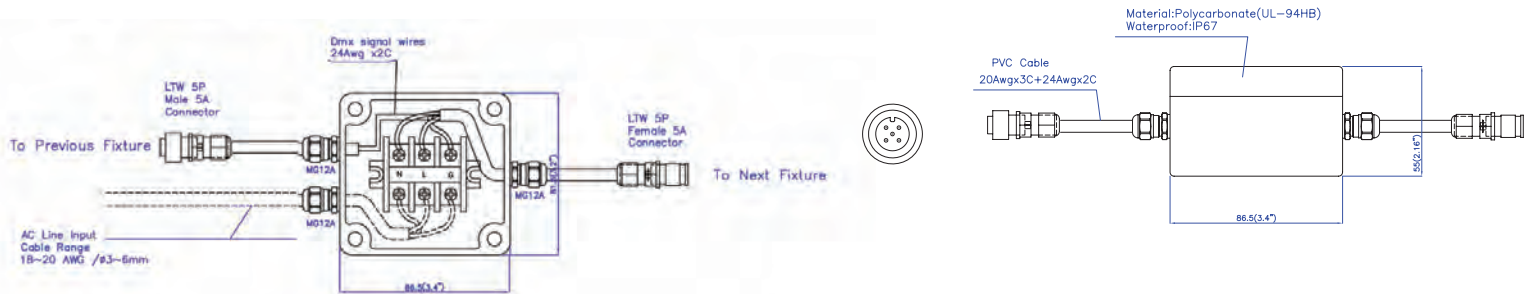
JUNCTION BOX

AC5A-DMX-3WB2

INPUT

12" PVC Cable w/ 5P Male 5A Connector

OUTPUT

12" PVC Cable w/ 5P Female 5A Connector

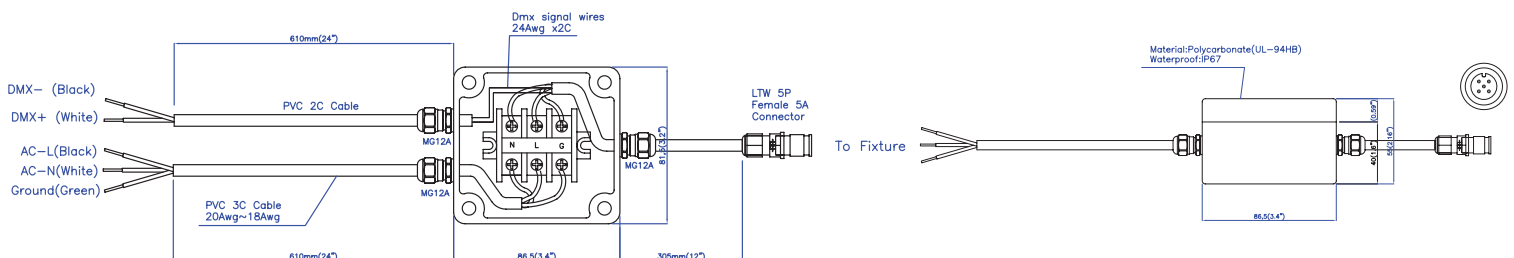### JUNCTION BOX – POWER AND WIRE LEAD SIGNAL SPLITTER

JUNCTION BOX

AC5A-DMX-3WB1

INPUT

24" PVC Cable (2 leads) for DMX Data 24" PVC Cable (3 leads) for AC Power

OUTPUT

12" Cable w 5P Female 5A Connector

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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.
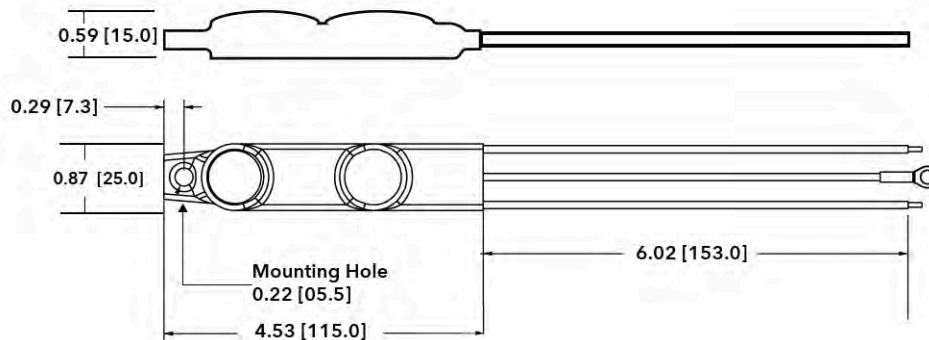
SPECIFICATIONS

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)

0.59 [15.0]
0.29 [7.3]
0.87 [25.0]
Mounting Hole 0.22 [05.5]
4.53 [115.0]
6.02 [153.0]

WIRING DIAGRAM

SPD
LSP4-UNV

L
N
G

LED DRIVER

LED +
LED -

LED LOAD

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technology by

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