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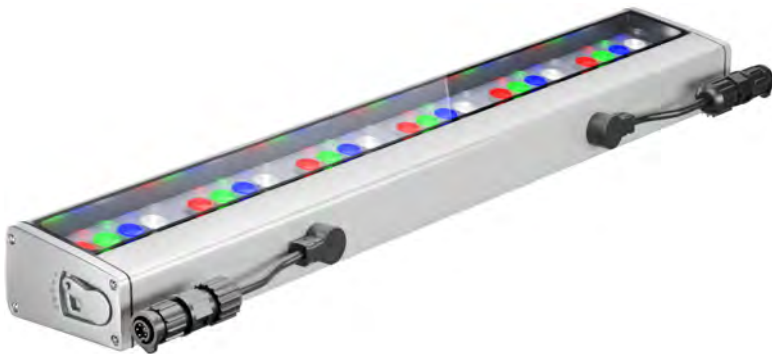
Date:
Type:
Project:
Firm:

HB40SP RGB

EXTERIOR LINEAR LED LIGHTBAR

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

Graze | Wall Washing | Cove | Accent Lighting

The Smart Lighting Company HB40SP RGB Series is a robust linear exterior color-changing LED luminaire merging high performance with affordability for architectural lighting. Using just 11.9 watts per foot, this fixture is tailored for precision wall grazing, washing, cove, and accent illumination. The fixture's LED board can be adjusted up to 20°, enabling precise control over lighting angles. Equipped with a universal 100/277VAC power supply and DMX modules directly mounted on the LED board, the HB40SP RGB is available in five lengths, offering a range of color temperatures to create dynamic lighting effects. The fixture is crafted using Nichia bin-sorted LEDs, renowned for their superior quality and even illumination, and paired with our strategically engineered optical lenses to maximize light output while reducing power consumption. The HB40SP RGB offers multiple customization options for fixture length, optics, and finishes. This fixture is self-addressing for easy integration and a Plug and Play power/ signal connection for easy installation.

DIMMABLE | IP66 | LM 80 LEDS | CSA | c UL us LISTED | NICHIA

HB40SP EXTERIOR LINEAR LED LIGHTBAR

SPECIFICATIONS

PERFORMANCE

Output
13w/ft | 340lm/ft

Color Temperatures
RGB

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

LEDs per Foot
12 (4R, 4G, 4B) 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
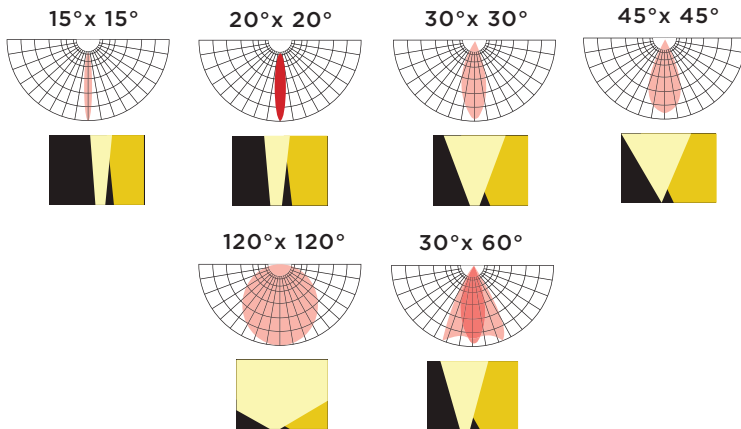Dry, Damp or Wet locations
0-100% non condensing humidity

Certifications
UL, cUL

Warranty
5 year limited warranty

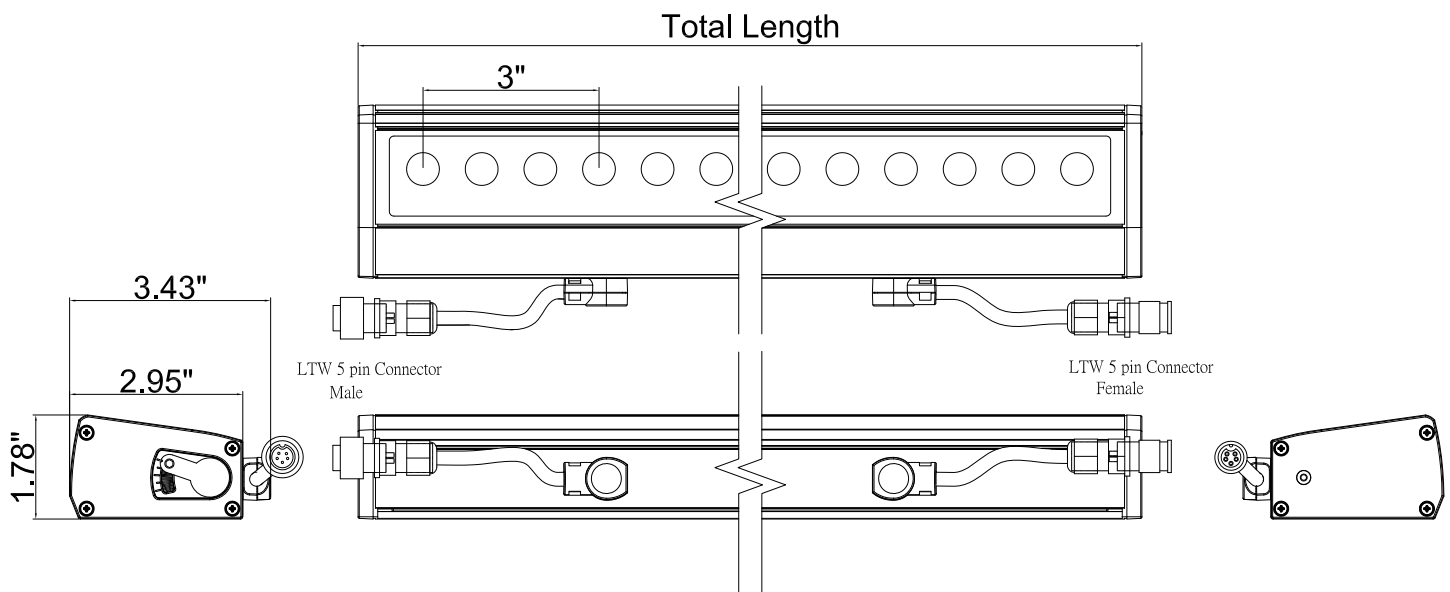1731 Kaiser Ave. Irvine, CA 92614 | sales@thesmartlightingcompany.com | 949.346.3456 | thesmartlightingcompany.com
© 2021 The Smart Lighting Company. All rights reserved. Specifications subject to change without notice. Rev. 2/23

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HB40SP EXTERIOR LINEAR LED LIGHTBAR

SPECIFICATIONS

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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

RGB

DIMENSIONS AND DATA

	Voltage	View Angle	Watts/Fixture	Lumens/Fixture	LEDs/Fixture	Extrusion Length	Total Length
HB40SP-10-RGB-XXD-ACD	100-277VAC	15°, 20°, 30° 45°, 120° 30°x60°	10.5w	283.6	3R, 3G, 3B	L=244.4mm	L=259mm (10")
HB40SP-19-RGB-XXD-ACD			19.0w	539.2	6R, 6B, 6G	L=473.0mm	L=488mm (19")
HB40SP-28-RGB-XXD-ACD			27.8w	794.6	9R, 9G, 9B	L=701.6mm	L=716mm (28")
HB40SP-37-RGB-XXD-ACD			36.6w	1050.1	12R, 12G, 12B	L=930.2mm	L=945mm (37")
HB40SP-46-RGB-XXD-ACD			45.4w	1305.5	15R, 15G, 15B	L=1158.8mm	L=1173mm (46")

PROFILE

Total Length

3"

3.43"

2.95"

1.78"

LTW 5 pin Connector Male

LTW 5 pin Connector Female

technology by LEDpower

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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
RGB	RGB

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**

QTY		
	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

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**

QTY		
	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**

QTY		
	BK	Black
	BZ	Bronze
	WH	White
	CU	Custom

* Fixture housing is anodized aluminum standard

Junction Boxes

QTY

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

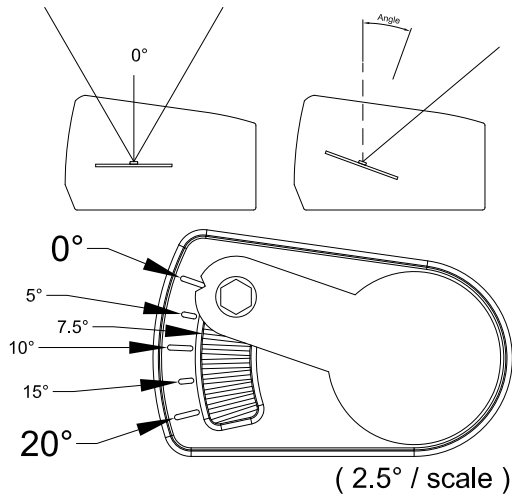| QTY	**WALL MOUNT WITH EXTENDED ARM***	
	HB47-EXT ARM-xx"+2D-BKT	Extended arm with 2D Bracket
	HB47-EXT ARM-xx"+2D-BKT-JNT	Extended arm with 2D Bracket Jointed
	HB47-WM Cover-xx"	Wall Mount Cover set
	HB47-EC	End Covers

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

DMX Controller
QTY

QTY		
	NIC-DMX-STICK-DE3	DMX Controller

Surge Protection
QTY

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)
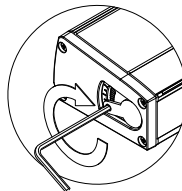
Step 1 : Loosen the screw
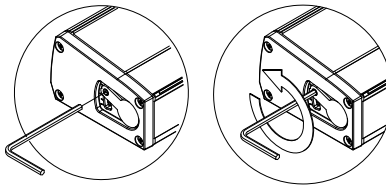
Step 2 : Adjust the angle.

Step 3 : Tighten the screw

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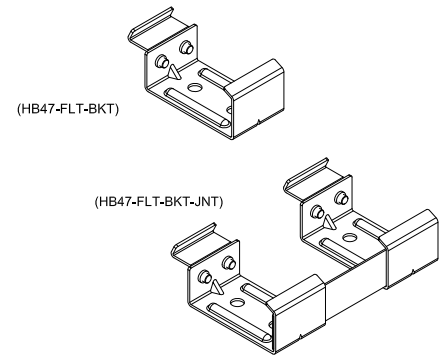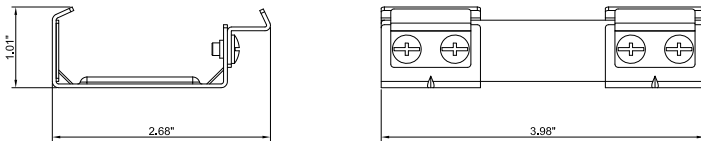**TSLC**
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HB40SP SERIES

MOUNTING OPTIONS
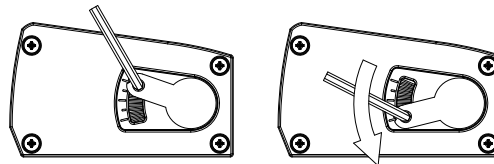
SURFACE MOUNT
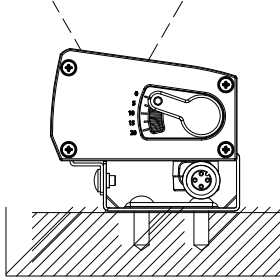
PART NUMBER

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

1.01"

2.68"

1.22"
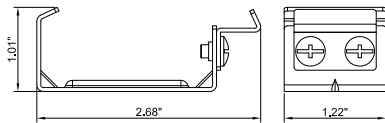
(HB47-FLT-BKT)

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
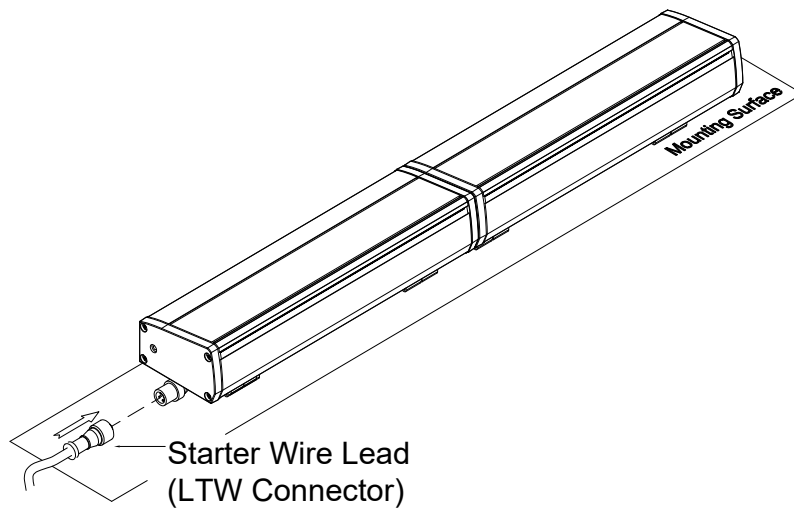
Starter Wire Lead
(LTW Connector)

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HB40SP SERIES

MOUNTING OPTIONS

Date:
Type:
Project:
Firm:

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
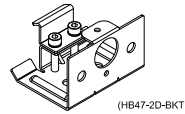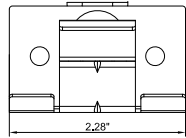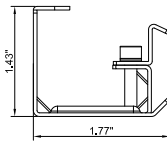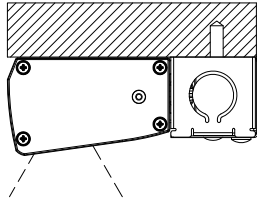
1.43"
1.77"
2.28"

(HB47-2D-BKT)

PART NUMBER

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

1.43"
1.77"
6.38"
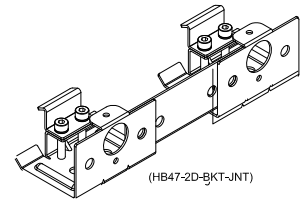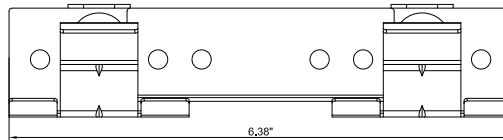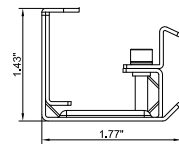
(HB47-2D-BKT-JNT)

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)
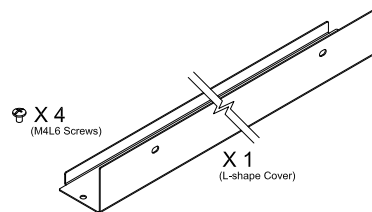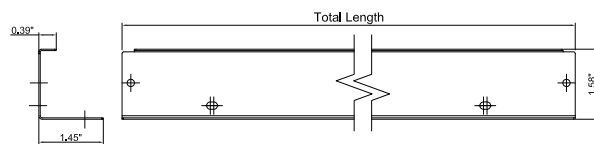
END CAPS

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
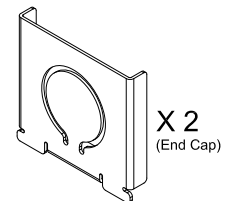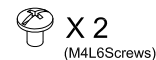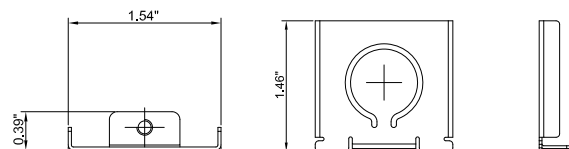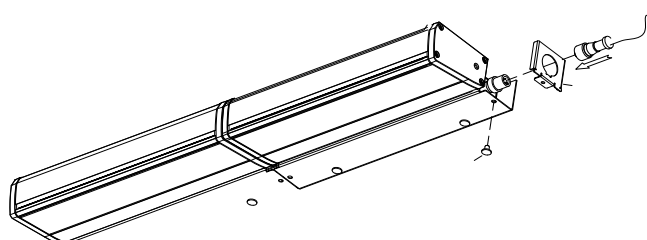
WALL MOUNT

HB47-2D-BKT.......... Single **mounting** bracket for beginning or end of a run or on a stand-alone fixture
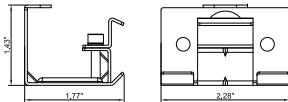
1.43"
1.77"   2.28"

(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)
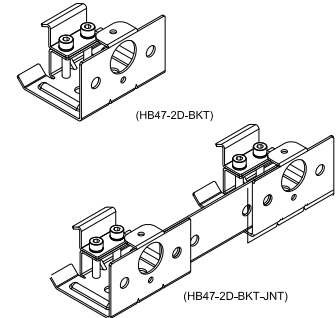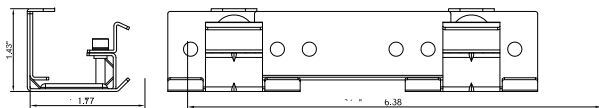
WALL MOUNT COVERS

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
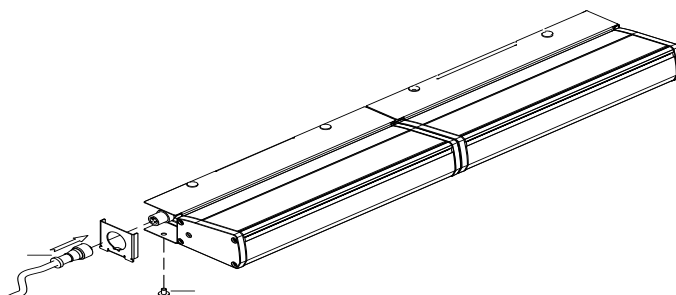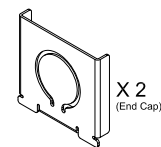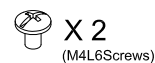**HB47-WM-COVER-37"...........**37" WALL MOUNT COVER
HB47-WM-COVER-46"...........46" WALL MOUNT COVER

0.31"
Total Length
1.5"
0.39"

X 1
(Top Cover)

X 1
(Bottom Cover)

X 4
(M4L6Screws)
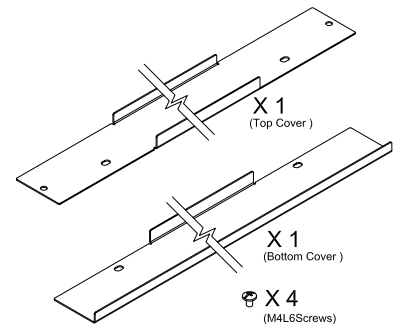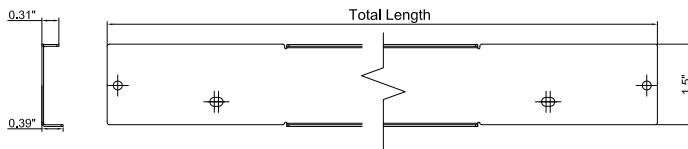
END CAPS

PART NUMBER

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

1.54"
1.46"
0.39"

X 2
(M4L6Screws)

X 2
(End Cap)

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HB40SP SERIES

MOUNTING OPTIONS
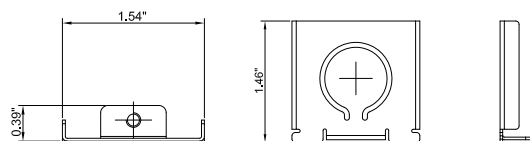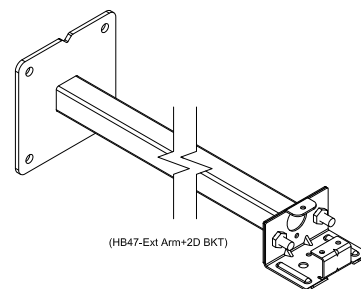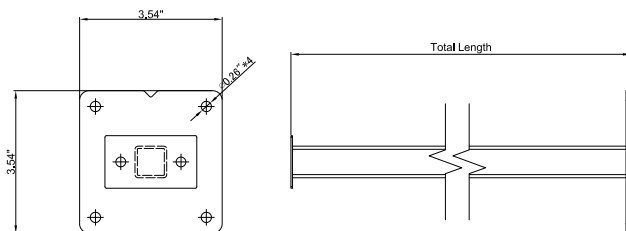
EXTENDED ARM WALL MOUNT
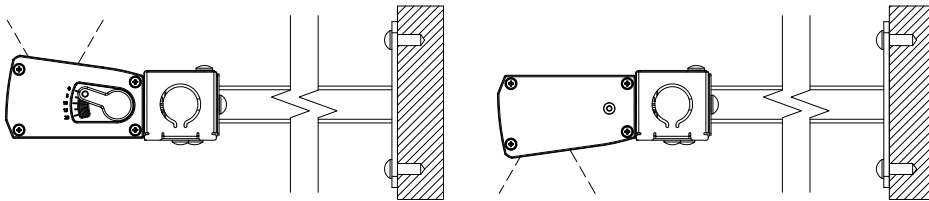
PART NUMBER

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" *4

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
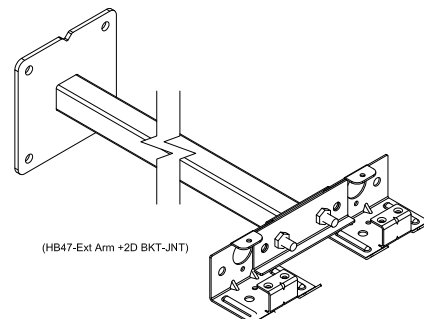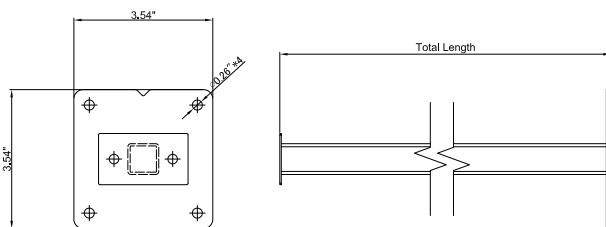

3.54"

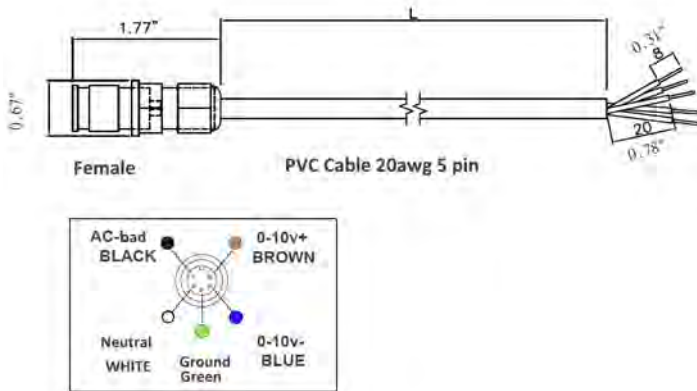3.54"

Ø0.26" *4

Total Length

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

Wall
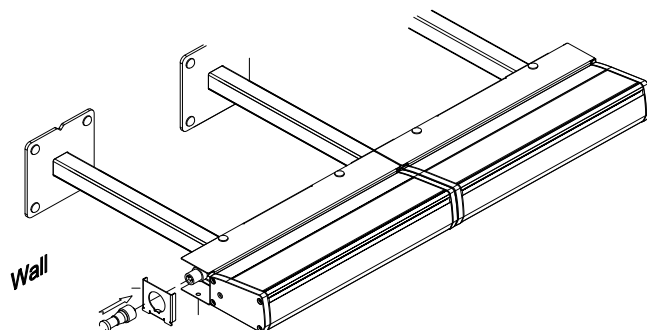
WIRE LEAD

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

POWER/SIGNAL

DISTRIBUTION BOXES
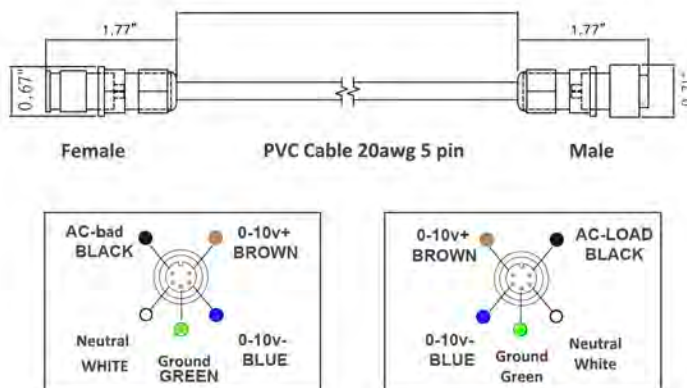
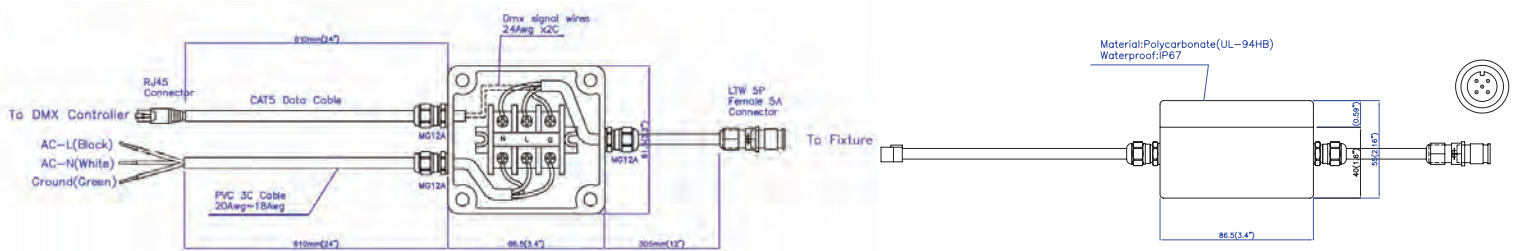### JUNCTION BOX – POWER AND CAT5 SIGNAL SPLITTER

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

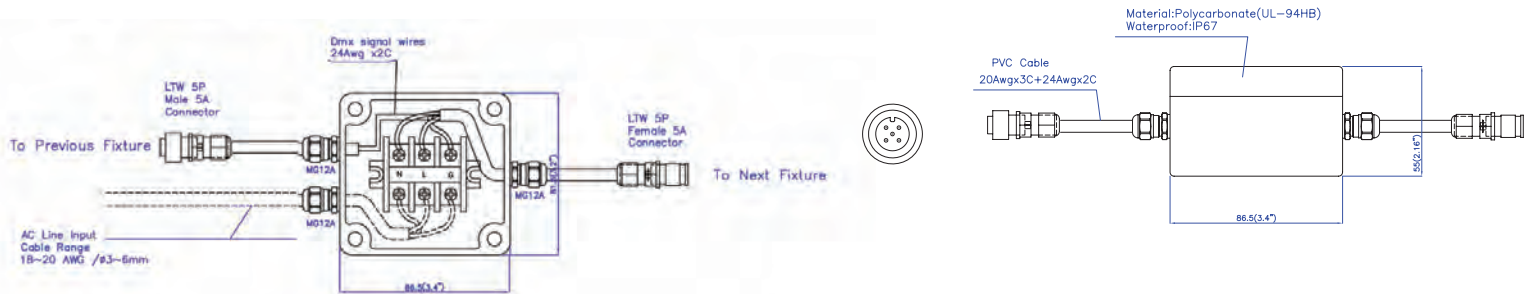### JUNCTION BOX–AC POWER AMPLIFIER FOR LONG RUN LENGTHS

JUNCTION BOX

AC5A-DMX-3WB2

INPUT

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

OUTPUT

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

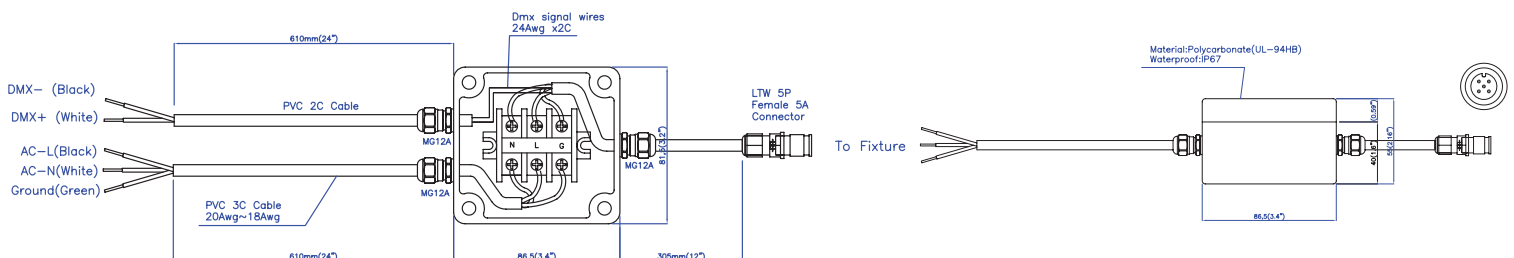### JUNCTION BOX – POWER AND WIRE LEAD SIGNAL SPLITTER

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

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.
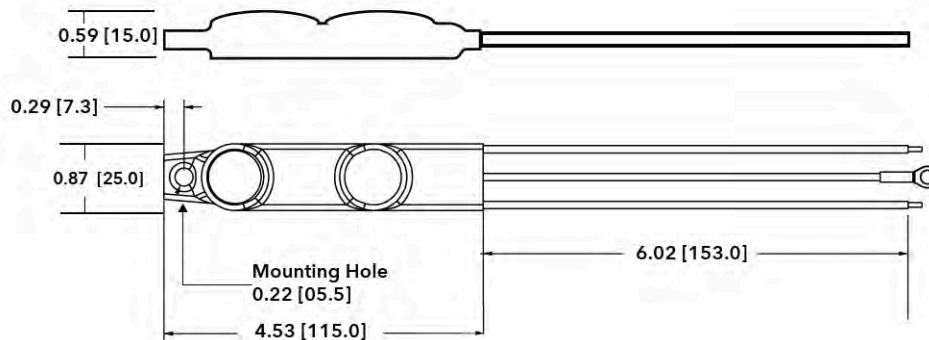
SPECIFICATIONS

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

1731 Kaiser Ave. Irvine, CA 92614 | sales@thesmartlightingcompany.com | 949.346.3456 | thesmartlightingcompany.com
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