TSLC
THE SMART LIGHTING COMPANY

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

HB40SP .... EXTERIOR LINEAR LED LIGHTBAR

POWERFUL | ADJUSTABLE OPTICAL BOARD
9.4w/ft, 726lm/ft | 12w/ft, 975lm/ft

Graze| Wall Washing | Flood Lighting

The Smart Lighting Company HB40SP Series is an affordable, high-performance linear fixtures perfect for graze, wall-wash, and flood applications. These fixtures are designed with an adjustable optical board, allowing precision aiming from 0°-20° to perfectly illuminate your target surface. Equipped with Nichia bin-sorted LEDs, they deliver up to 853 lumens per foot for precise and even light distribution. The HB40SP stands out for its versatility, offering a variety of fixture lengths, color temperatures, and optics, along with diverse mounting options and finishes to suit different architectural needs. Optional cover plates are available to conceal wires for a seamless look. Our precision optical lenses are crafted to maximize light output while minimizing power usage, providing an energy-efficient lighting solution that doesn't compromise on brightness or quality. Each fixture includes an integral universal 100/277VAC power supply, 0-10v dimming, and full thermal management, paired with a Plug and Play system for simplified installation. The series also offers additional features like wire concealing covers for a neat finish. Ideal for a range of applications, the HB40SP Series is a cost-effective choice for those seeking reliable, high-quality lighting.

HB40SP
EXTERIOR LINEAR LED LIGHTBAR

SPECIFICATIONS

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PERFORMANCE

Output
9.4w - 726lm/ft | 12w - 975lm/ft

Color Temperatures
22k, 27k, 30k, 35k, 41k, 50k, 65k, R, G, B, A

Beam Angles
15°, 20°, 30°, 45°, 120°, 13°x17°, 30°x60°

LEDs per Foot
8

LED's
Nichia bin-sorted

Color Consistency
2 SCDM

CRI
83 standard, 94 optional

ELECTRICAL

Input Voltage
100-277vac

Power Supply
Integral

Control
0-10v dimming

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
125ft@277vac, 54ft@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

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

ENVIRONMENT AND WARRANTY

IP Rating
IP66

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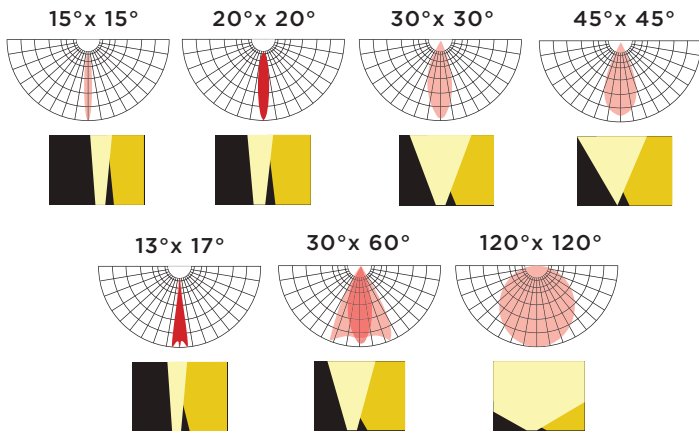Dry, Damp or Wet locations
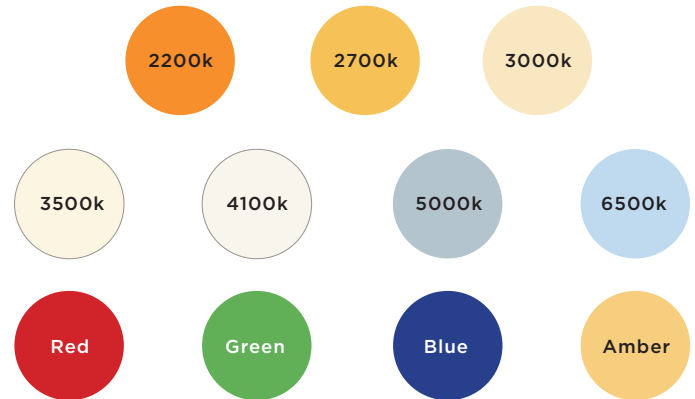0-100% non-condensing humidity

Certifications
UL, cUL

Warranty
5 year limited warranty

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technology by

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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°

13°x 17° 30°x 60° 120°x 120°

COLOR TEMPERATURES

2200k 2700k 3000k
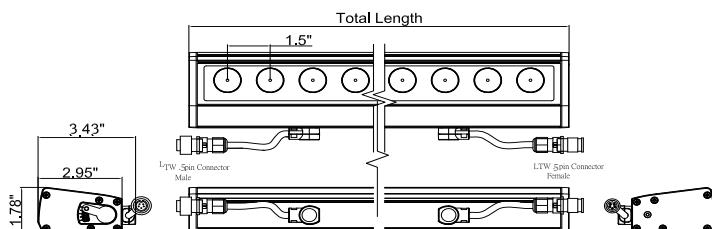
3500k 4100k 5000k 6500k
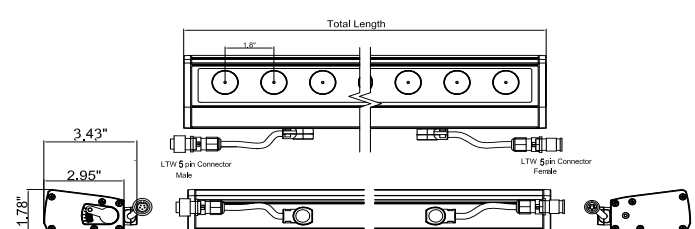
Red Green Blue Amber

DIMENSIONS AND DATA

9.4w/ft	Voltage	View Angle	Watts/Fixture	Lumens/Fixture	LEDs/Fixture	Extrusion Length	Total Length
HB40SP-10-XXK-XXD-ACD	100-277VAC	15°, 20°, 30° 45°, 120° 13°x17° 30°x60°	8.6w	605	6	L=244.4mm	L=259.4mm (10".2)
HB40SP-19-XXK-XXD-ACD			14w	1149	12	L=473.0mm	L=488.0mm (19.2")
HB40SP-28-XXK-XXD-ACD			20w	1694	18	L=701.6mm	L=716.6mm (28.2")
HB40SP-37-XXK-XXD-ACD			26.8w	2239	24	L=930.2mm	L=945.2mm (37.2")
HB40SP-46-XXK-XXD-ACD			33.2w	2783	30	L=1158.8mm	L=1173.8mm (46.2")

12w/ft	Voltage	View Angle	Watts/Fixture	Lumens/Fixture	LEDs/F	Extrusion Length	Total Length
HB40SP-10-XXK-XXD-ACD-12	100-277VAC	15°, 20°, 30° 45°, 120° 13°x17° 30°x60°	9.2w	813	5	L=244.4mm	L=259.4mm (10".2)
HB40SP-19-XXK-XXD-ACD-12			18.4w	1544	10	L=473.0mm	L=488.0mm (19.2")
HB40SP-28-XXK-XXD-ACD-12			27.6w	2275	15	L=701.6mm	L=716.6mm (28.2")
HB40SP-37-XXK-XXD-ACD-12			36.8w	3006	20	L=930.2mm	L=945.2mm (37.2")
HB40SP-46-XXK-XXD-ACD-12			46w	3738	25	L=1158.8mm	L=1173.8mm (46.2")

PROFILE

9.4w/ft

Total Length
1.5"
3.43"
2.95"
1.78"
LTW 5pin Connector Male
LTW 5pin Connector Female

12w/ft

Total Length
1.8"
3.43"
2.95"
1.78"
LTW 5pin Connector Male
LTW 5pin Connector Female

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HB40SP
EXTERIOR LINEAR LED LIGHTBAR

ORDER FORM

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

CREATE YOUR FIXTURE

Ex. HB40SP–46–30K–30–ACD–9

MODEL

HB40SP

LENGTH

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

COLOR

22k	2200k	R		Red
27k	2700k	G		Green
30k	3000k	B		Blue
35k	3500k	A		Amber
41k	4100k			
50k	5000k			
65k	6500k			

OPTICS

15	15°x15°
20	20°x20°
30	30°x30°
45	45°x45°
120	120°x120°
1317	13°x17°
3060	30°x60°

VOLTAGE

AC	100-277vac

CONTROL

D	Dimming
ND	Non Dimming

POWER

9	9w/ft
12	12w/ft

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

QTY   **POWER**

QTY		
	AL-HB3P-72"-W/L	72" (6ft) Wire lead 3pin
	AL-HB3P-xx"-W/L	xx" (CU) Wire lead 3pin

* 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

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

QTY   **POWER**

QTY		
	AL-HB3P-12"-J	12" (1ft) jumper 3pin
	AL-HB3P-72"-J	72" (6ft) jumper 3pin
	AL-HB3P-xx"-J	xx" (CU) jumper 3pin

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

SELECT MOUNTING

QTY   **SURFACE MOUNT**

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

QTY   **CEILING MOUNT**

QTY		
	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**

QTY		
	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***

QTY		
	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.

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

0-10V Dimmer
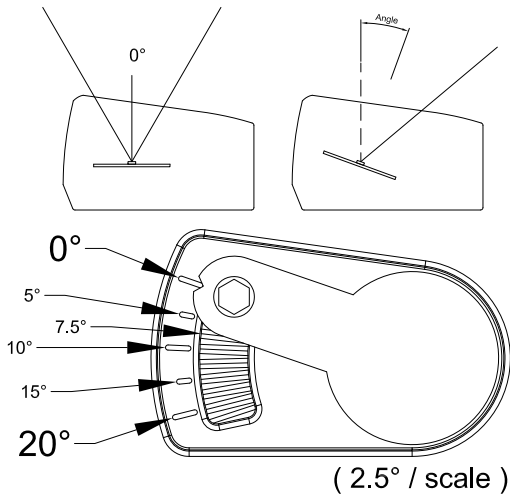
QTY

QTY		
	LUT-DVSTV-WH	0-10V dimmer switch

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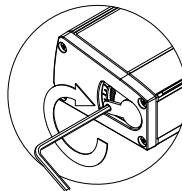
Step 1 : Loosen the screw
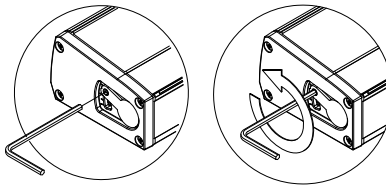
Step 2 : Adjust the angle.

Step 3 :Tighten the screw

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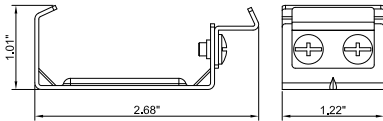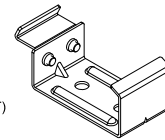THE SMART LIGHTING COMPANY

MOUNTING OPTIONS

SURFACE MOUNT
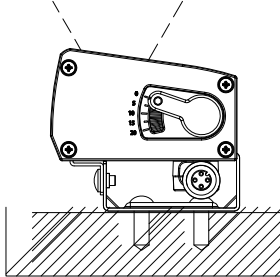
PART NUMBER

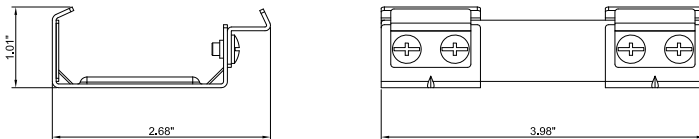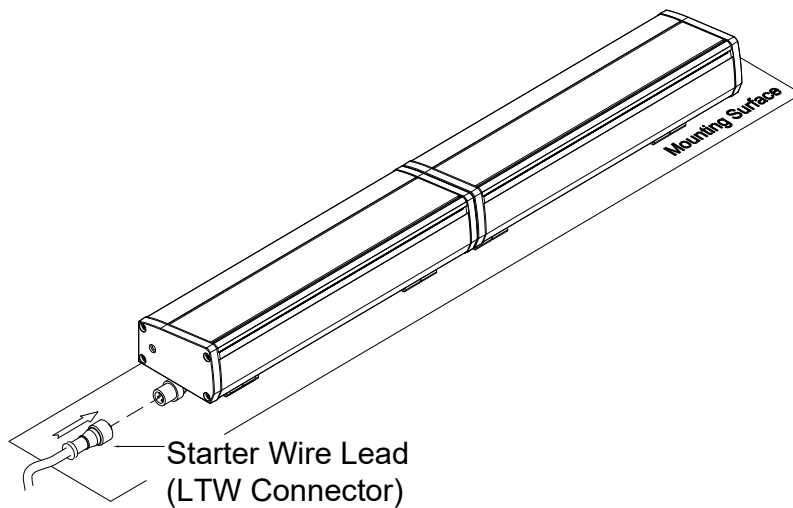**HB47-FLT-BKT...........** Single mounting bracket for beginning or end of a run on a stand-along fixture

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)

HB40SP SERIES

MOUNTING OPTIONS

Date:
Type:
Project:
Firm:
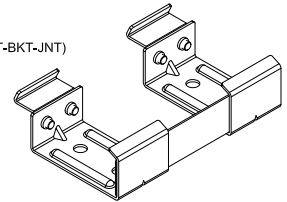
CEILING MOUNT

1. CEILING MOUNTED

PART NUMBER

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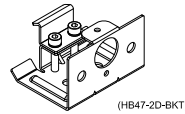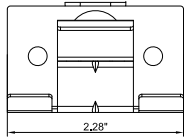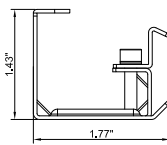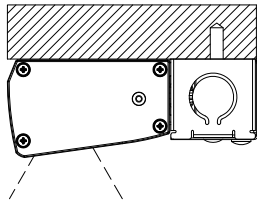
(HB47-2D-BKT)

PART NUMBER

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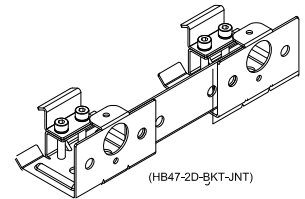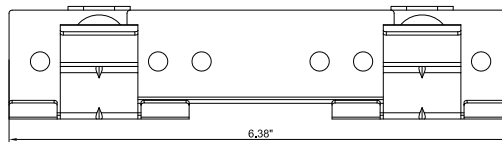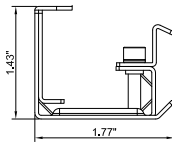
(HB47-2D-BKT-JNT)

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

X 4
(M4L6 Screws)

X 1
(L-shape Cover)
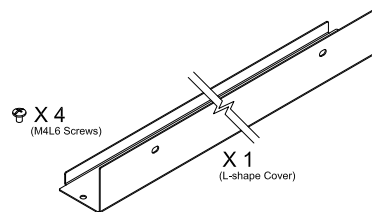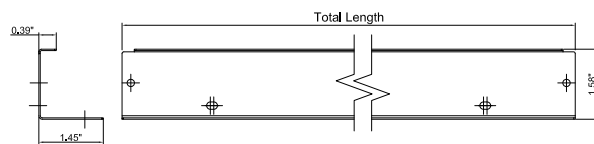
END CAPS

PART NUMBER

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

X 2
(End Cap)

X 2
(M4L6Screws)

MOUNTING OPTIONS

Date: ....
Type: ....
Project: ....
Firm: ....
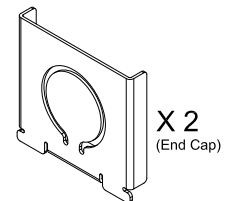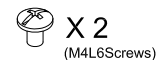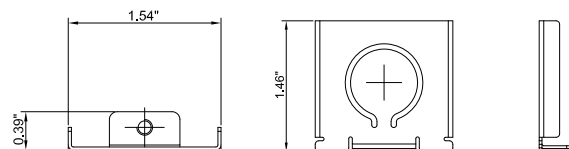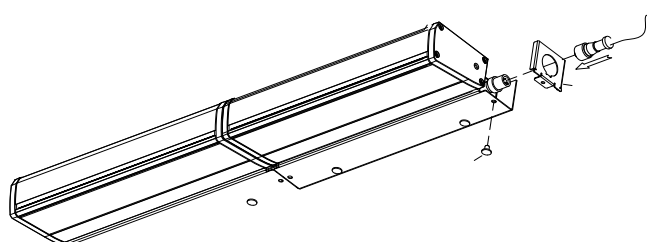
WALL MOUNT

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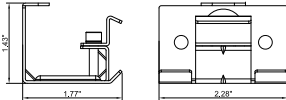
(HB47-2D-BKT)

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

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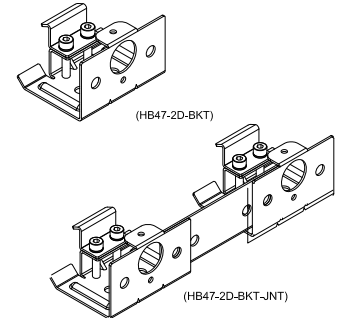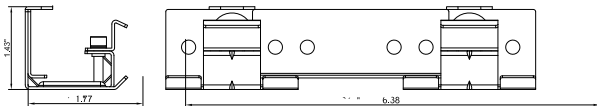
WALL MOUNT COVERS

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

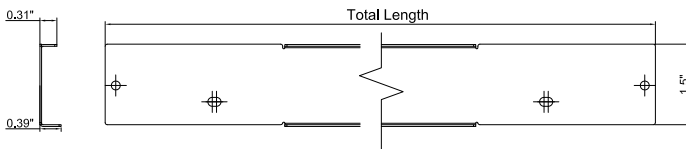**HB47-WM-COVER-10"...........**10" WALL MOUNT COVER
HB47-WM-COVER-19"...........19" WALL MOUNT COVER
HB47-WM-COVER-28"...........28" WALL MOUNT COVER
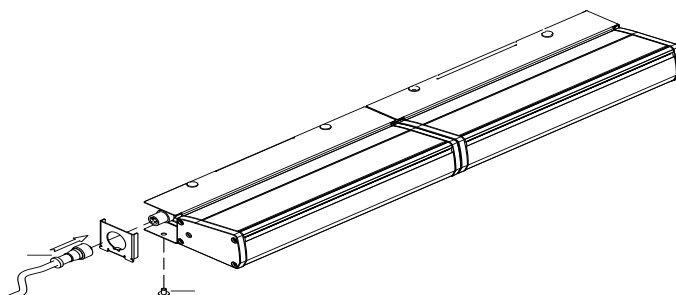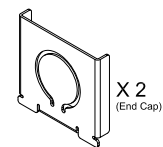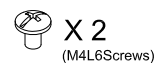**HB47-WM-COVER-37"...........**37" WALL MOUNT COVER
HB47-WM-COVER-46"...........46" WALL MOUNT COVER

X 1 (Top Cover)

X 1 (Bottom Cover)

X 4 (M4L6Screws)
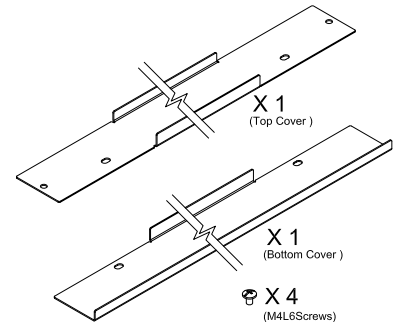
END CAPS

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
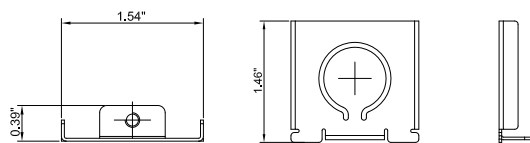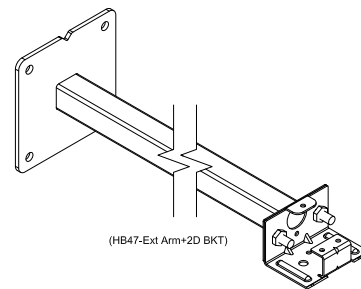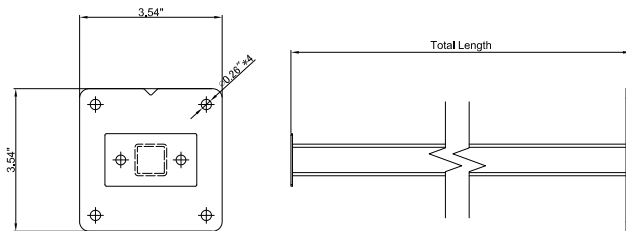
EXTENDED ARM WALL MOUNT
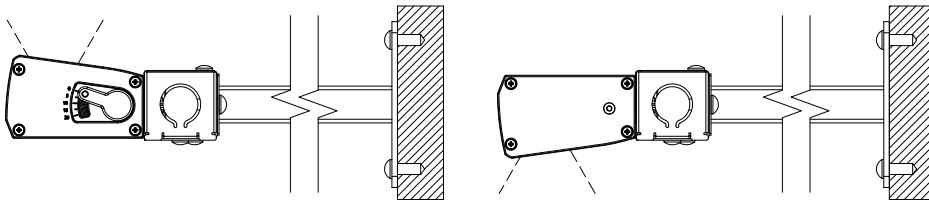
PART NUMBER

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
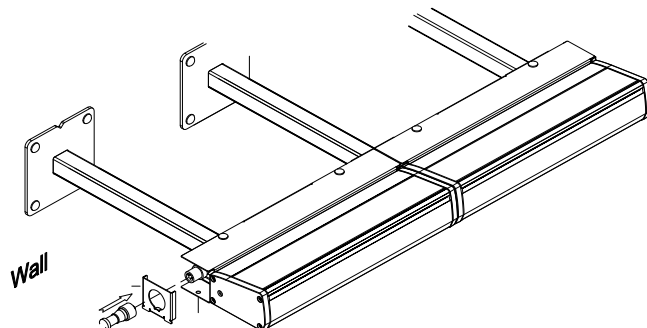

3.54"

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
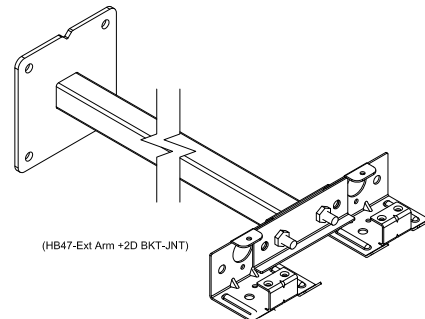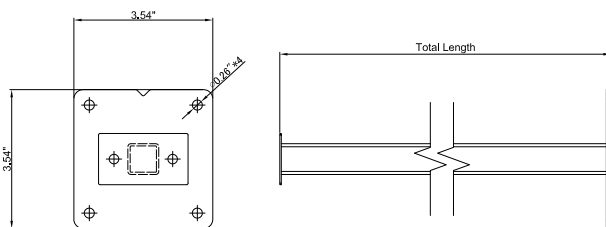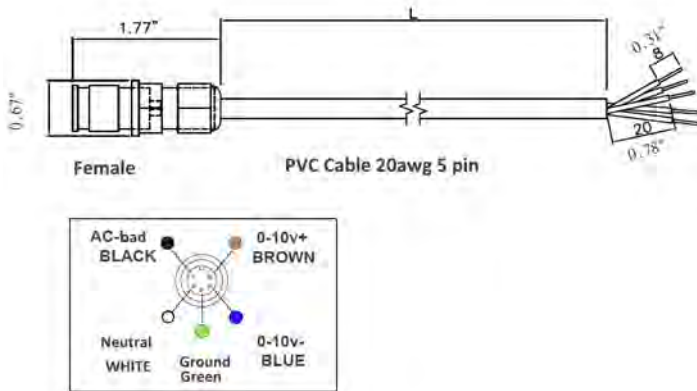

3.54"

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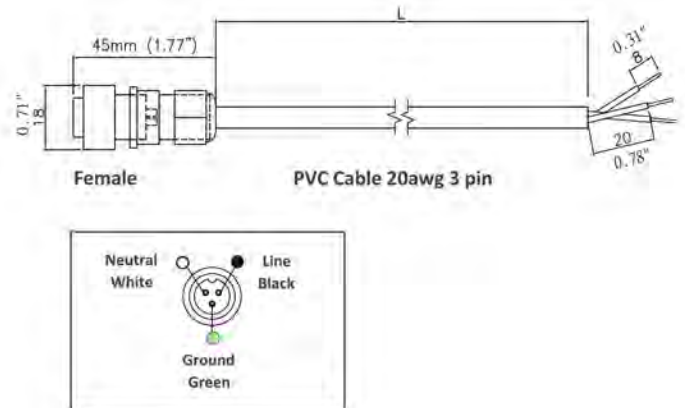
PART NUMBER
AL-HB5P-xx"-W/L

DESCRIPTION
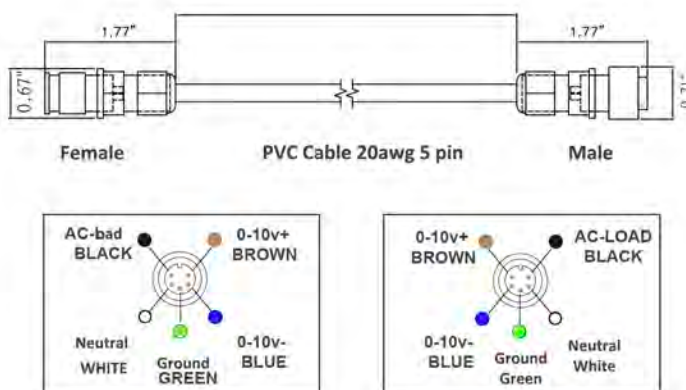3 pin power wire

PART NUMBER
AL-HB3P-xx"-W/L

JUMPER CABLE

DESCRIPTION
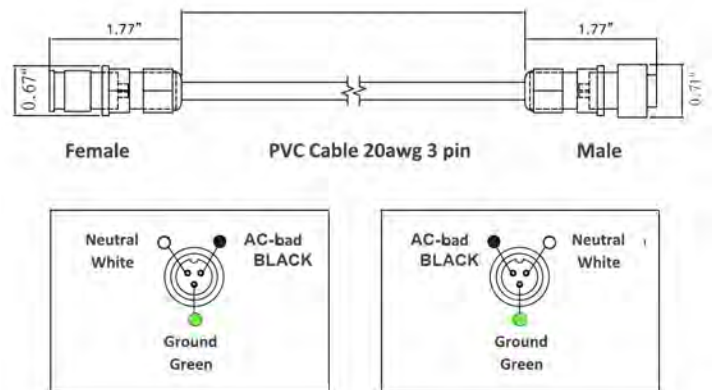5 pin power / signal jumper

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

DESCRIPTION
3 pin power jumper

PART NUMBER
AL-HB3P-xx"- J

technology by LEDpower

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SURGE PROTECTION DEVICE

TSLC
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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.
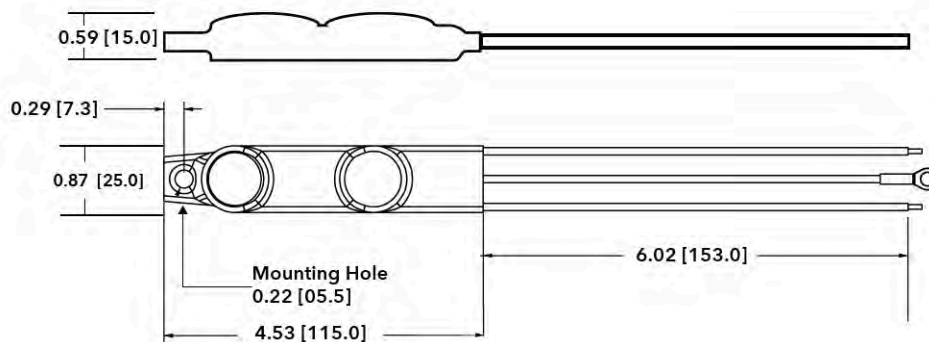
SPECIFICATIONS

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

LEDpower technology by

TSLC
THE SMART LIGHTING COMPANY