

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.



SPECIFICATIONS

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°, 60°, 75°, 90°, 120°,

13°x17°, 15°x35°, 18°x58°, 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

9w - 125ft@277vac, 54ft@120vac

12w - 92ft/277vac, 40ft@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

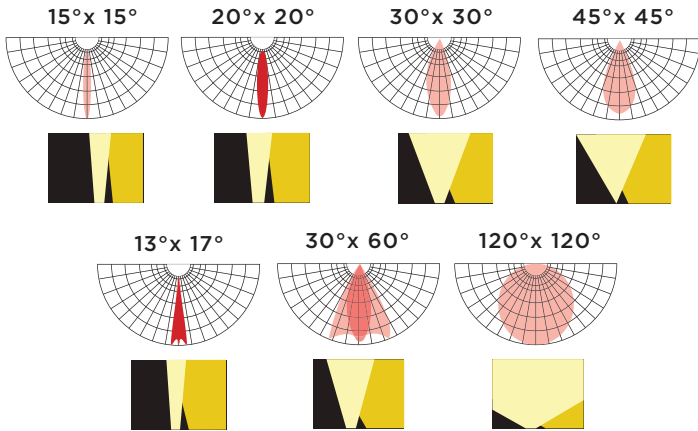
UL, cUL

Warranty

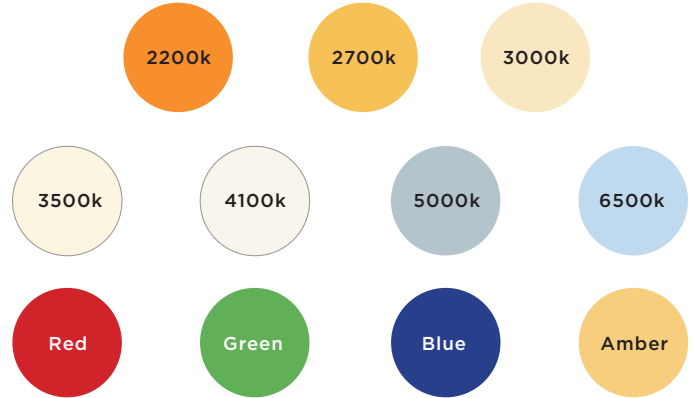
5 year limited warranty

SPECIFICATIONS

OPTICS



COLOR TEMPERATURES

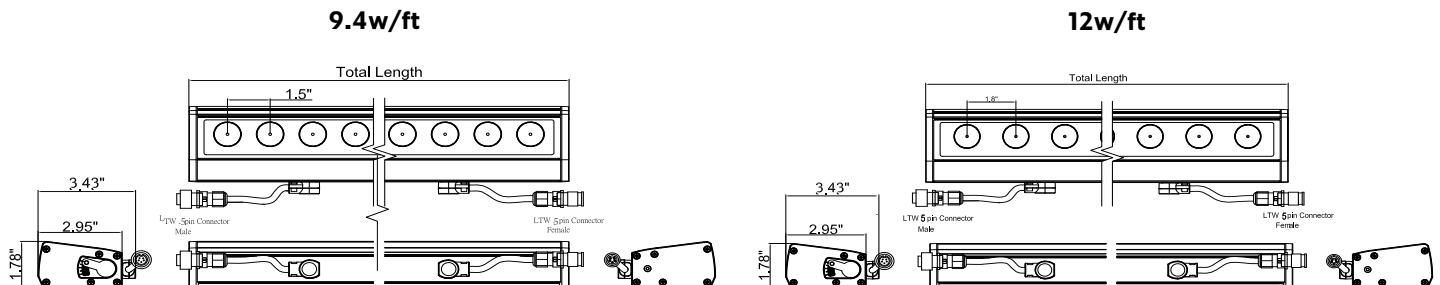


DIMENSIONS AND DATA

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°	8.6w	605	6	L=244.4mm	L=259.4mm (10".2)
HB40SP-19-XXK-XXD-ACD		45°, 60°, 75°	14w	1149	12	L=473.0mm	L=488.0mm (19.2")
HB40SP-28-XXK-XXD-ACD		90°, 120°	20w	1694	18	L=701.6mm	L=716.6mm (28.2")
HB40SP-37-XXK-XXD-ACD		13°x17°	26.8w	2239	24	L=930.2mm	L=945.2mm (37.2")
HB40SP-46-XXK-XXD-ACD		15°x35° 18°x58° 30°x60°	33.2w	2783	30	L=1158.8mm	L=1173.8mm (46.2")

12w/ft	Voltage	View Angle	Watts/Fixture	Lumens/Fixture	LEDs/Fixture	Extrusion Length	Total Length
HB40SP-10-XXK-XXD-ACD-12	100-277VAC	15°, 20°, 30°	9.2w		5	L=244.4mm	L=259.4mm (10".2)
HB40SP-19-XXK-XXD-ACD-12		45°, 60°, 75°	18.4w	1544	10	L=473.0mm	L=488.0mm (19.2")
HB40SP-28-XXK-XXD-ACD-12		90°, 120°	27.6w	2275	15	L=701.6mm	L=716.6mm (28.2")
HB40SP-37-XXK-XXD-ACD-12		13°x17°	36.8w	3006	20	L=930.2mm	L=945.2mm (37.2")
HB40SP-46-XXK-XXD-ACD-12		15°x35° 18°x58° 30°x60°	46w	3738	25	L=1158.8mm	L=1173.8mm (46.2")

PROFILE



ORDER FORM

CREATE YOUR FIXTURE

Ex. HB40SP-46-30K-30-ACD-9

MODEL	LENGTH	COLOR	OPTICS
HB40SP	10" 10 inches 19" 19 inches 28" 28 inches 37" 37 inches 46" 46 inches	22k 2200k R Red 27k 2700k G Green 30k 3000k B Blue 35k 3500k A Amber 41k 4100k 50k 5000k 65k 6500k	15 15°x15° 20 20°x20° 30 30°x30° 45 45°x45° 60 60°x60° 75 75°x75° 90 90°x90° 120 120°x120° 1317 13°x17° 1535 15°x35° 1858 18°x58° 3060 30°x60°
VOLTAGE	CONTROL	POWER	
AC 100-277vac	D Dimming ND Non Dimming	9 9w/ft 12 12w/ft	

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
QTY	POWER	
	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		
	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	
	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	
	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	
	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.

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

0-10V Dimmer

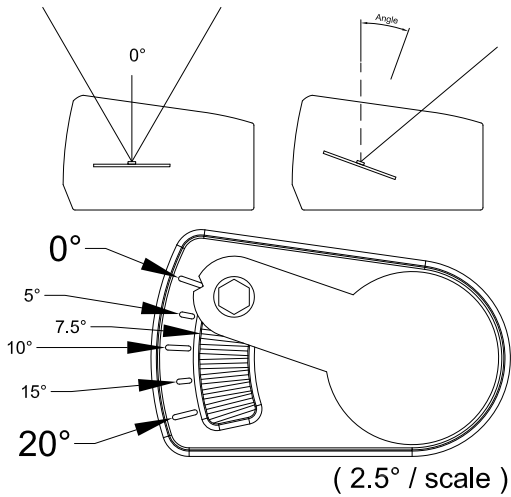
QTY		
	LUT-DVSTV-WH	0-10V dimmer switch

Surge Protection

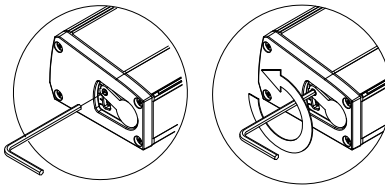
QTY		
	LSP4-UNV	120/277v surge protector

OPTICAL BOARD ANGLE ADJUSTMENT

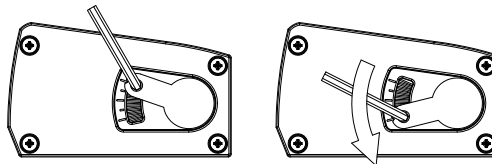
ANGLE BEAM UP TO 20° TOWARD THE ILLUMINATED SURFACE



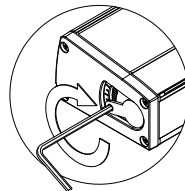
Step 1 : Loosen the screw



Step 2 : Adjust the angle.

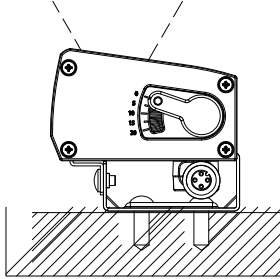


Step 3 : Tighten the screw



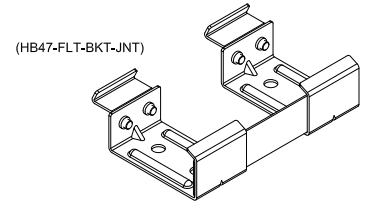
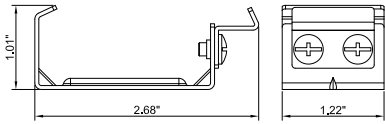
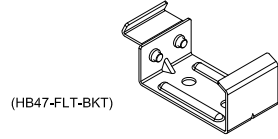
MOUNTING OPTIONS

SURFACE MOUNT



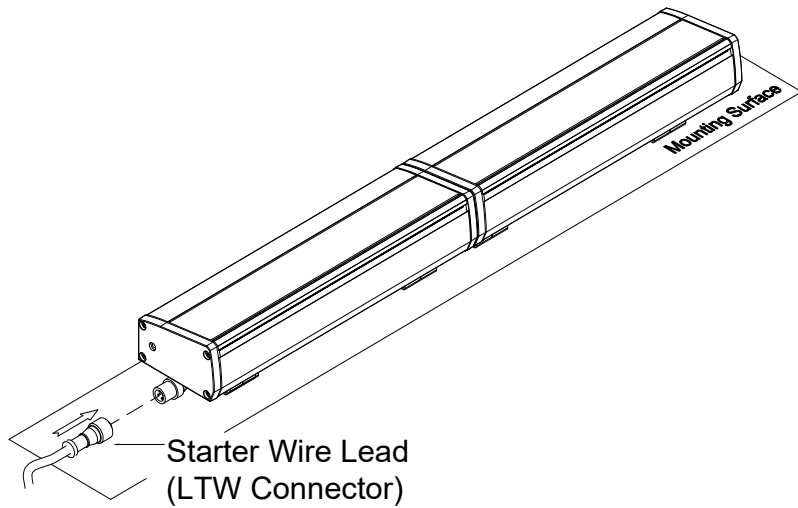
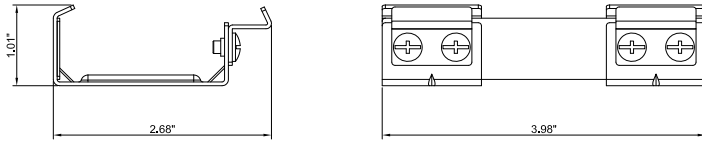
PART NUMBER

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



PART NUMBER

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



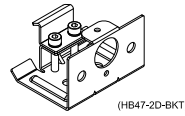
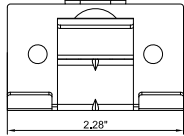
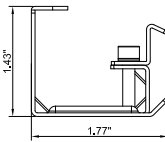
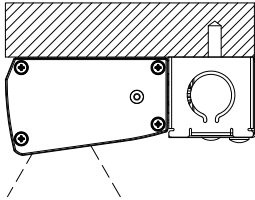
MOUNTING OPTIONS

CEILING MOUNT

1. CEILING MOUNTED

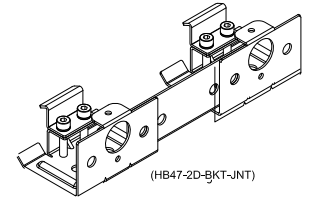
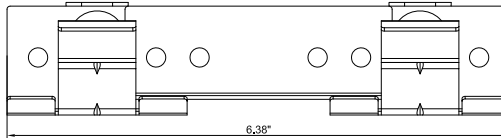
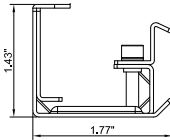
PART NUMBER

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



PART NUMBER

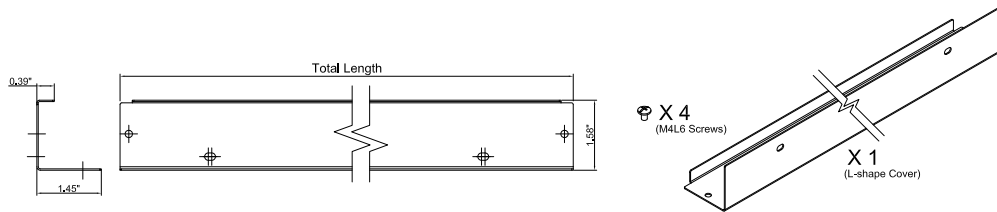
HB47-2D-BKT-JNT..... Double mounting bracket to connect 2 fixtures together



CEILING MOUNT COVERS

PART NUMBER ONE PER FIXTURE

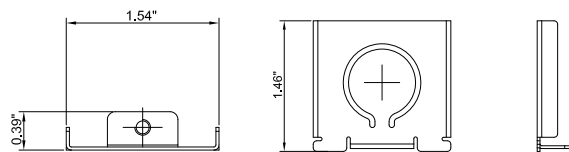
- HB47-CM-COVER-10"**.....10" CEILING MOUNT COVER
- HB47-CM-COVER-19"**.....19" CEILING MOUNT COVER
- HB47-CM-COVER-28"**.....28" CEILING MOUNT COVER
- HB47-CM-COVER-37"**.....37" CEILING MOUNT COVER
- HB47-CM-COVER-46"**.....46" CEILING MOUNT COVER



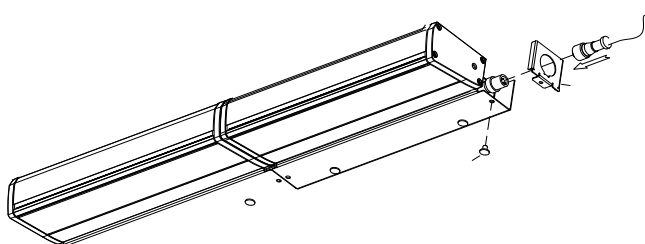
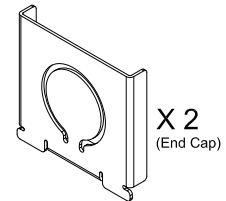
END CAPS

PART NUMBER

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

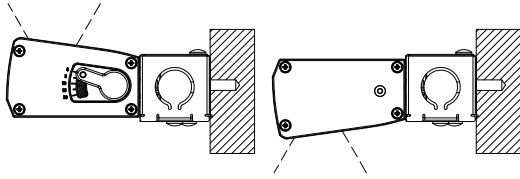


X 2
(M4L6Screws)

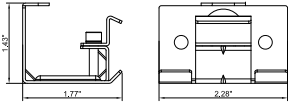


MOUNTING OPTIONS

WALL MOUNT

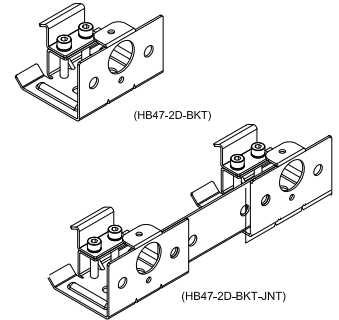
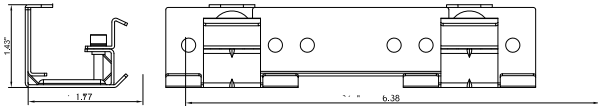


HB47-2D-BKT.....Single mounting bracket for beginning or end of a run or on a stand-alone fixture



PART NUMBER

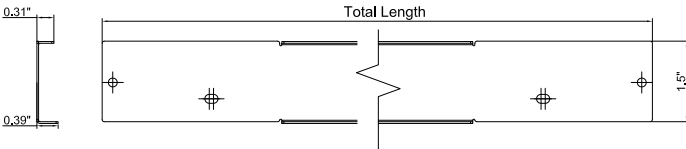
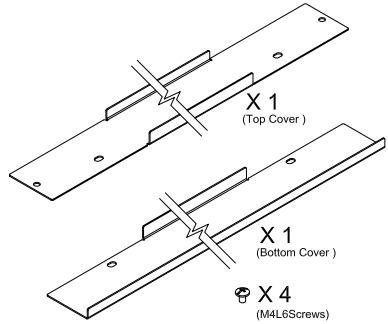
HB47-2D-BKT-JNT.....Double mounting bracket to connect 2 fixtures together



WALL MOUNT COVERS

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

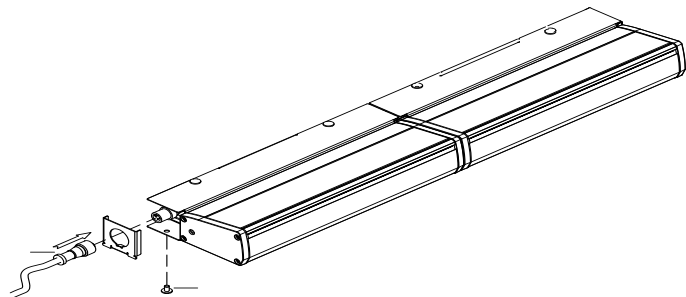
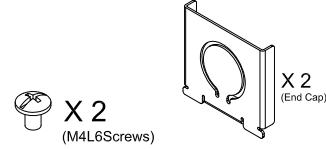
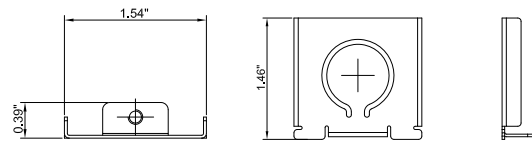
- HB47-WM-COVER-10"**.....10" WALL MOUNT COVER
- HB47-WM-COVER-19"**.....19" WALL MOUNT COVER
- HB47-WM-COVER-28"**.....28" WALL MOUNT COVER
- HB47-WM-COVER-37"**.....37" WALL MOUNT COVER
- HB47-WM-COVER-46"**.....46" WALL MOUNT COVER



END CAPS

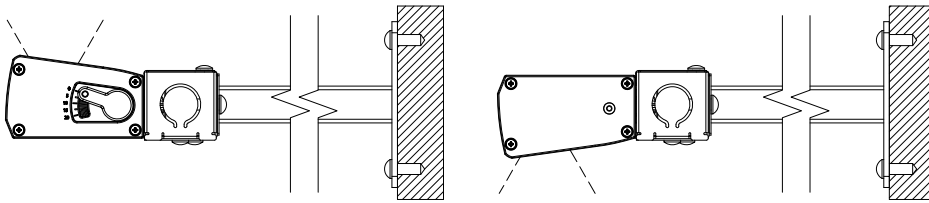
PART NUMBER

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



MOUNTING OPTIONS

EXTENDED ARM WALL MOUNT

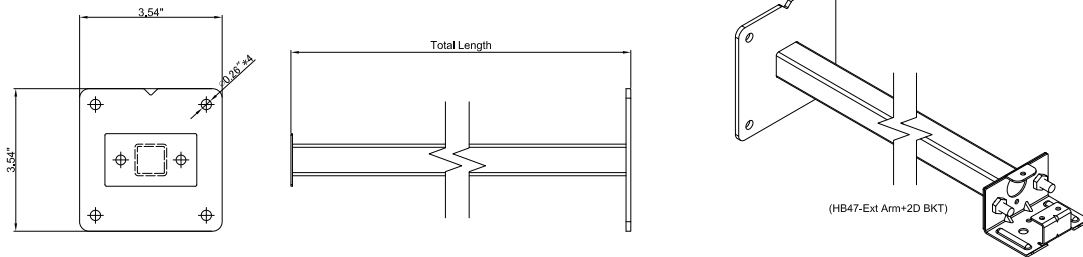


PART NUMBER

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



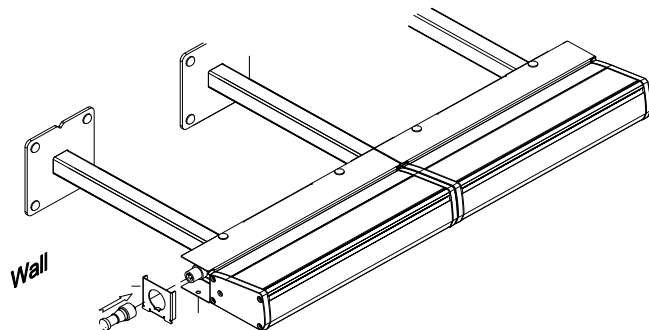
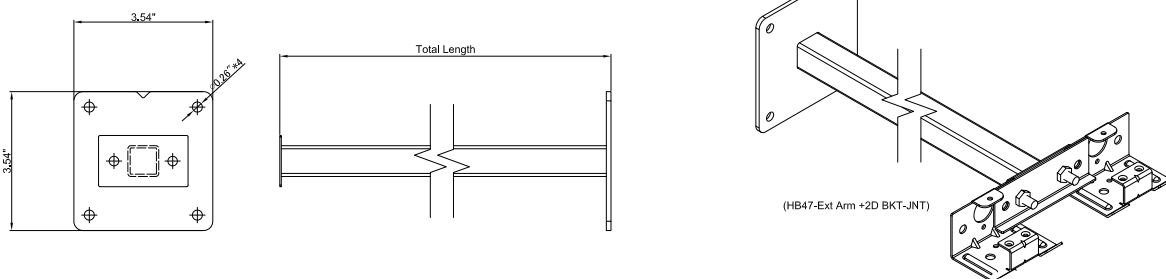
EXTENDED ARMS FOR DOUBLE BRACKET MOUNT

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

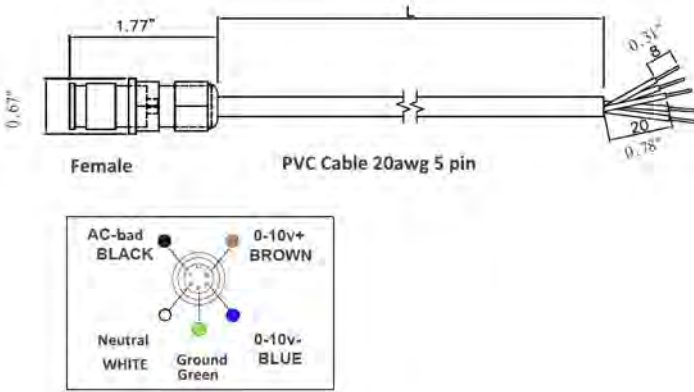
HB47-EXT ARM-24"+2D BKT-JNT..... 24" Extended arm with single mounting bracket for beginning or end of a run or on a stand-alone fixture



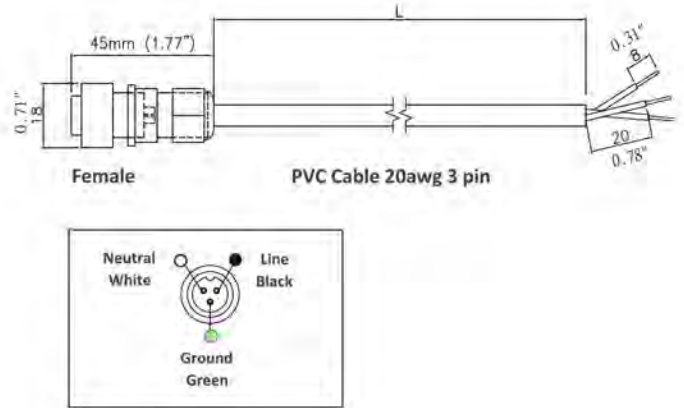
WIRING OPTIONS

WIRE LEAD

DESCRIPTION | **PART NUMBER**
 5 pin power / signal wire | AL-HB5P-xx"-W/L

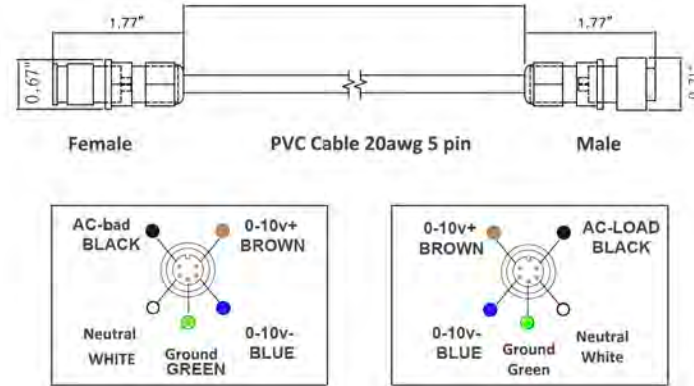


DESCRIPTION | **PART NUMBER**
 3 pin power wire | AL-HB3P-xx"-W/L

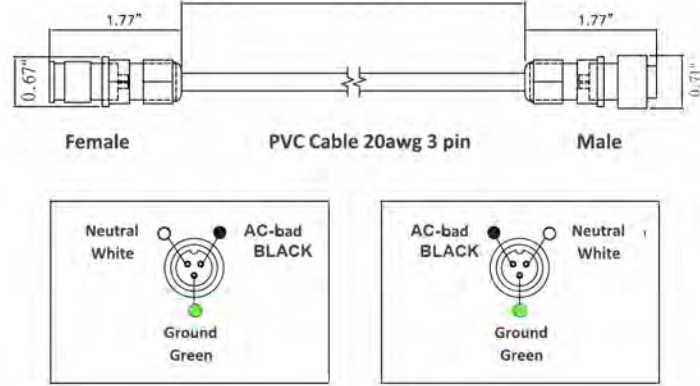


JUMPER CABLE

DESCRIPTION | **PART NUMBER**
 5 pin power / signal jumper | AL-HB5P-xx"-W/L



DESCRIPTION | **PART NUMBER**
 3 pin power jumper | AL-HB3P-xx"-J



SURGE PROTECTION DEVICE

Date:
 Type:
 Project:
 Firm:

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.

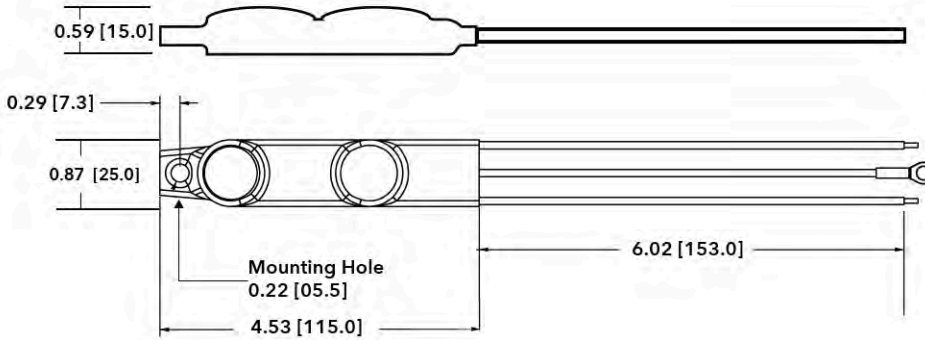
SPECIFICATIONS

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

