



HB40HP RGBW

LINEAR LED LIGHTBAR

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

Exterior: Graze | Wall Washing | Flood Lighting

The Smart Lighting Company HB40HP RGBW Series, an economical line of wet location rated, high-performance linear architectural fixtures designed for versatile exterior applications such as grazing, wall-washing, and flood lighting. These fixtures operate at 13 watts per foot using Nichia bin-sorted LEDs and precision optics, ensuring superior, even illumination across various settings. Our in-house designed and manufactured optical lenses focus on energy efficiency, maximizing light output with minimal power usage. With DMX control and self-addressing for easy operation, the series offers an array of options in fixture length, color temperature, optics, mounting, and finishes. Each fixture boasts an integral universal 100/277VAC power supply and full thermal management, complemented by a Plug and Play system that streamlines installation while handling both power and signal. The HB40HP RGBW is housed in durable extruded anodized aluminum with tooled end caps for longevity, and brings affordable, no-compromise performance to your architectural lighting.



SPECIFICATIONS

Date: _____

Type: _____

Project: _____

Firm: _____

PERFORMANCE

Output

13w/ft | 641lm/ft

Color Temperatures

RGBW

Beam Angles

15°, 20°, 30°, 45°, 60°, 75°, 90°, 120°,
15°x35°, 18°x58°, 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 (power
and signal in one cable)

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 adjustable or flat brackets

Optional Mounting

Powder-coated housing | extended arms or
ground post stakes

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

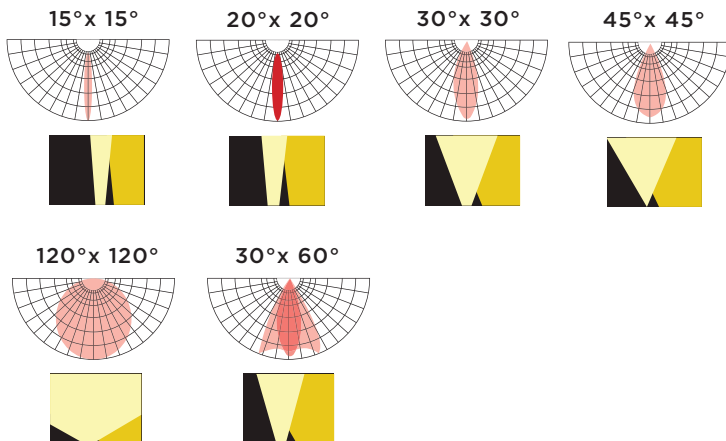
Certifications

UL, cUL

Warranty

5 year limited warranty

OPTICS



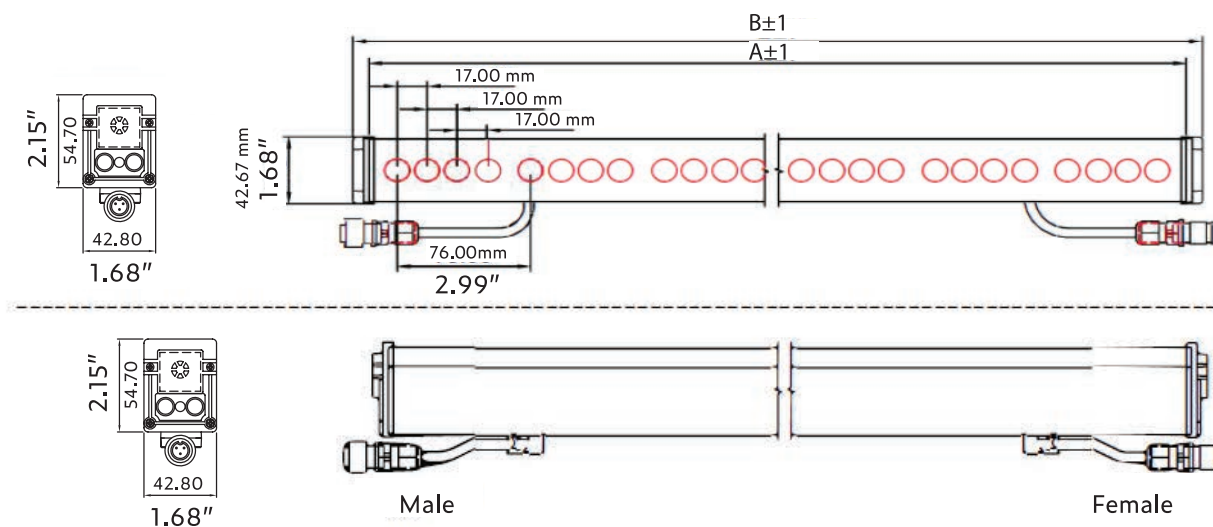
COLOR TEMPERATURES



DIMENSIONS AND DATA

| 13w/ft | Voltage | View Angle | Watts/ Fixture | Lumens/ Fixture | LEDs/ Fixture | Extrusion Length | Total Length |
|-----------------------|------------|--------------------|----------------|-----------------|--------------------|------------------|----------------|
| HB40HP-10-XXK-XXD-ACD | 100-277VAC | 15°, 20°, 30° | 10w | 534 | 3R, 3G, 3B, 3W | L=237.4mm | L=256mm (10") |
| HB40HP-19-XXK-XXD-ACD | | 45°, 60°, 75° | 20w | 1015 | 6R, 6B, 6G, 6W | L=465.4mm | L=484mm (19") |
| HB40HP-28-XXK-XXD-ACD | | 90°, 120° | 30w | 1496 | 9R, 9G, 9B, 9W | L=693.0mm | L=712mm (28") |
| HB40HP-37-XXK-XXD-ACD | | 15°x35° | 40w | 1976 | 12R, 12G, 12B, 12W | L=921.4mm | L=940mm (37") |
| HB40HP-46-XXK-XXD-ACD | | 18°x58° 30°x60° | 50w | 2457 | 15R, 15G, 15B, 15W | L=1149.4mm | L=1168mm (46") |

PROFILE



ORDER FORM

Date: _____

Type: _____

Project: _____

Firm: _____

CREATE YOUR FIXTURE

Ex. HB40HP-37-RGBW65-3060-AC-DM

| MODEL | LENGTH | COLOR | OPTICS |
|--------|---------------|---------------|---------------|
| HB40HP | 13w/ft. | 10" 10 inches | 15 15°x15° |
| | 19" 19 inches | 27k 2700k | 20 20°x20° |
| | 28" 28 inches | 30k 3000k | 30 30°x30° |
| | 37" 37 inches | 35k 3500k | 45 45°x45° |
| | 46" 46 inches | 41k 4100k | 60 60°x60° |
| | | 50k 5000k | 75 75°x75° |
| | | 65k 6500k | 90 90°x90° |
| | | A Amber | 120 120°x120° |
| | | | 1535 15°x35° |
| | | | 1858 18°x58° |
| | | | 3060 30°x60° |

| VOLTAGE | CONTROL |
|---------------|------------------------|
| AC 100-277vac | 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.

SELECT MOUNTING

| QTY | MOUNTING BRACKETS - 2 REQUIRED PER FIXTURE | |
|-----|--|-------------------------|
| | AL-HB40ADJ BRACKET | HB40 Adjustable bracket |
| | AL-HB40FLAT BRACKET | HB40 Flat bracket |

* Flat brackets only used if fixture is mounted in powder coated housing

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

DMX Controller

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

Surge Protection

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

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 |

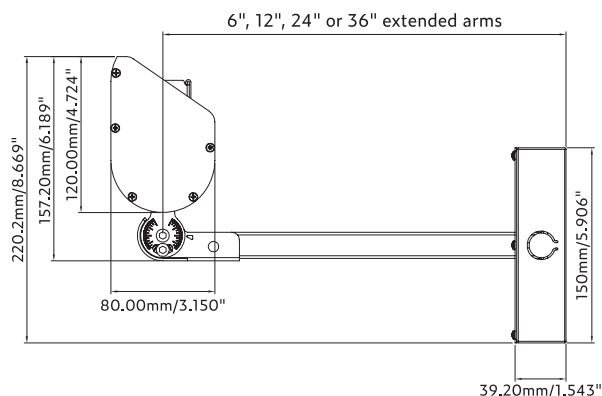
* Used in place of wire leads to separate power and signal

ADDITIONAL MOUNTING OPTIONS

Housing and Extended Arms

Fixture can be mounted in a powder coated housing with integral glare shield

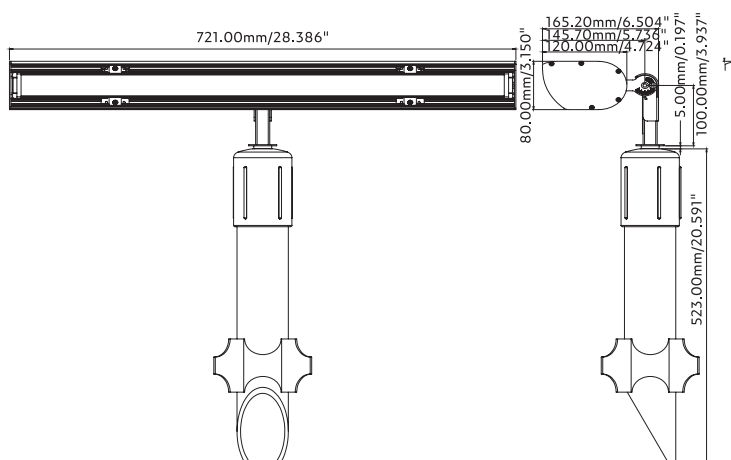
| QTY | Housing | (L) Housing Length | (F) Finish | (A) Extended Arm Length |
|-----------------------|----------|--------------------|-------------|-------------------------|
| | HB40EXT- | 10" | BK - Black | 6" |
| | | 19" | BZ - Bronze | 12" |
| | | 28" | WH - White | 18" |
| | | 37" | SI - Silver | 24" |
| | | 46" | CU - Custom | 36" |
| GPA (Ground Post Arm) | | | | |



Ground Posts

QTY Select when using GPA above (1 per fixture for 10", 19" & 28" housing and 2 for 37" & 46" housing)

HBEXT-GPS Ground post mount



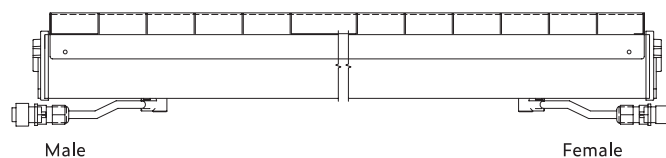
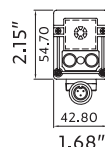
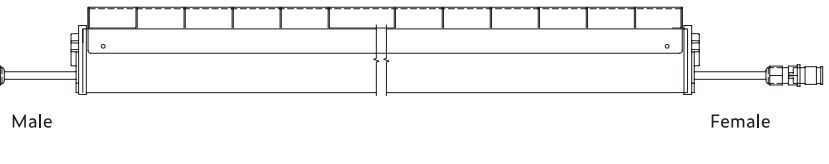
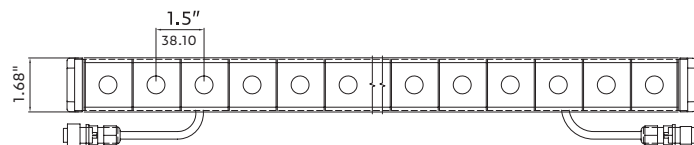
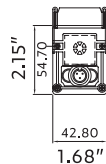
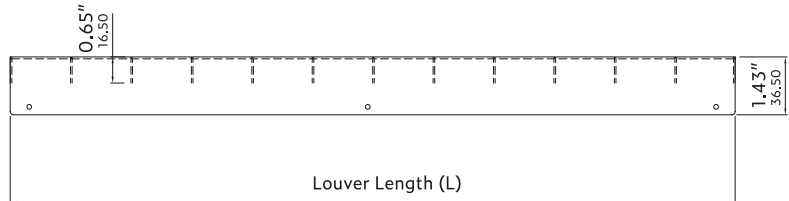
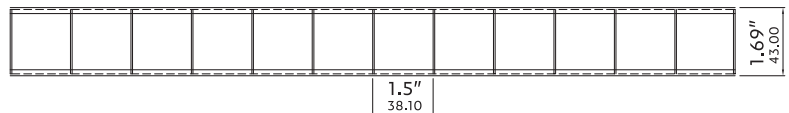
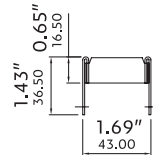
LOUVERS

Glare Control

Standard black finish powder coated louvers

| QTY | Housing | (L) Housing Length | (F) Finish |
|-----|-----------------|--------------------|-------------|
| | HB40-10" LOUVER | 10" | BK - Black |
| | HB40-19" LOUVER | 19" | BZ - Bronze |
| | HB40-28" LOUVER | 28" | WH - White |
| | HB40-37" LOUVER | 37" | SI - Silver |
| | HB30-46" LOUVER | 46" | CU - Custom |

* Other powder coated finishes available for additional cost



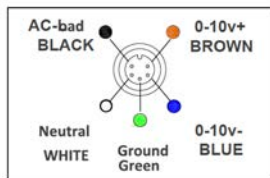
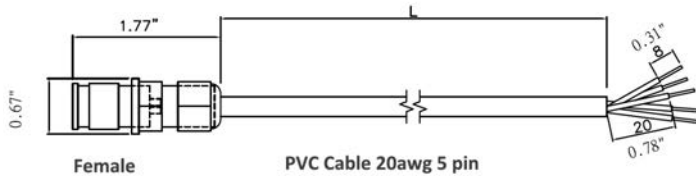
WIRE LEAD

DESCRIPTION

5 pin power / signal wire

PART NUMBER

AL-HB5P-xx"-W/L



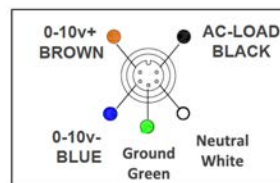
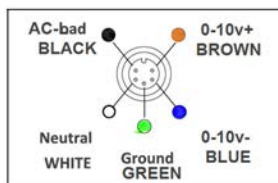
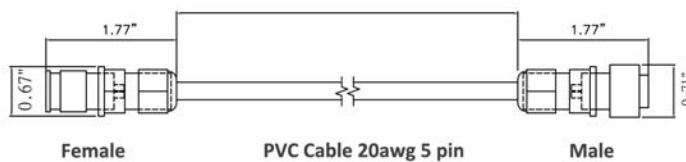
JUMPER CABLE

DESCRIPTION

5 pin power / signal jumper

PART NUMBER

AL-HB5P-xx"-J



POWER/SIGNAL

DISTRIBUTION BOXES

Date:

Type:

Project:

Firm:

JUNCTION BOX - POWER AND CAT5 SIGNAL SPLITTER

JUNCTION BOX

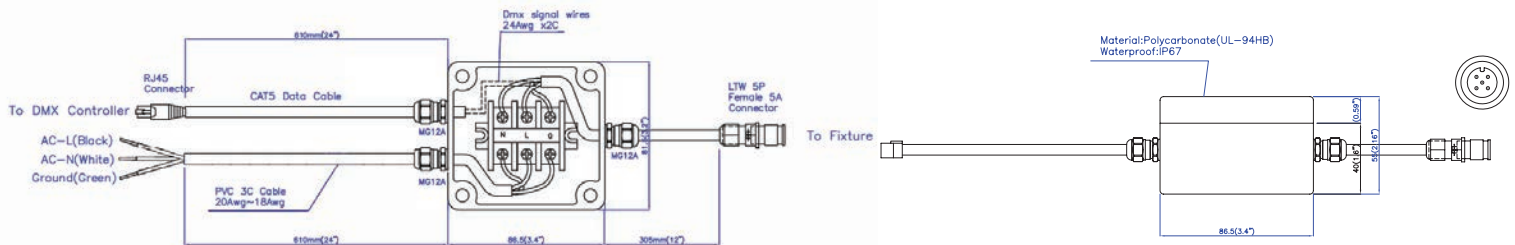
AC5A-DMX-3WB1

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

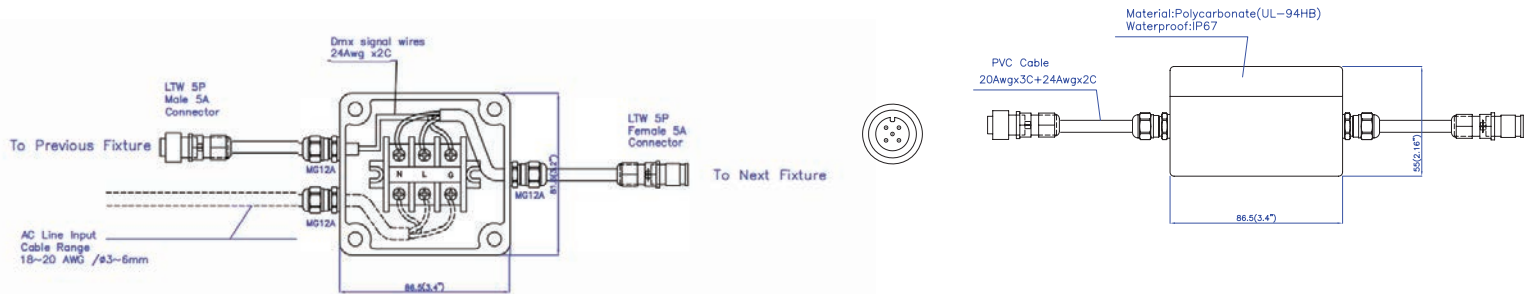
AC5A-DMX-3WB2

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

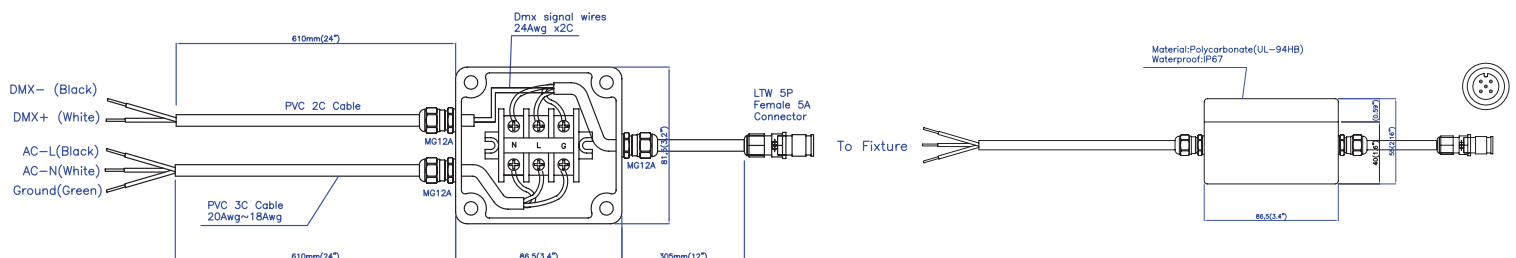
AC5A-DMX-3WB1

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



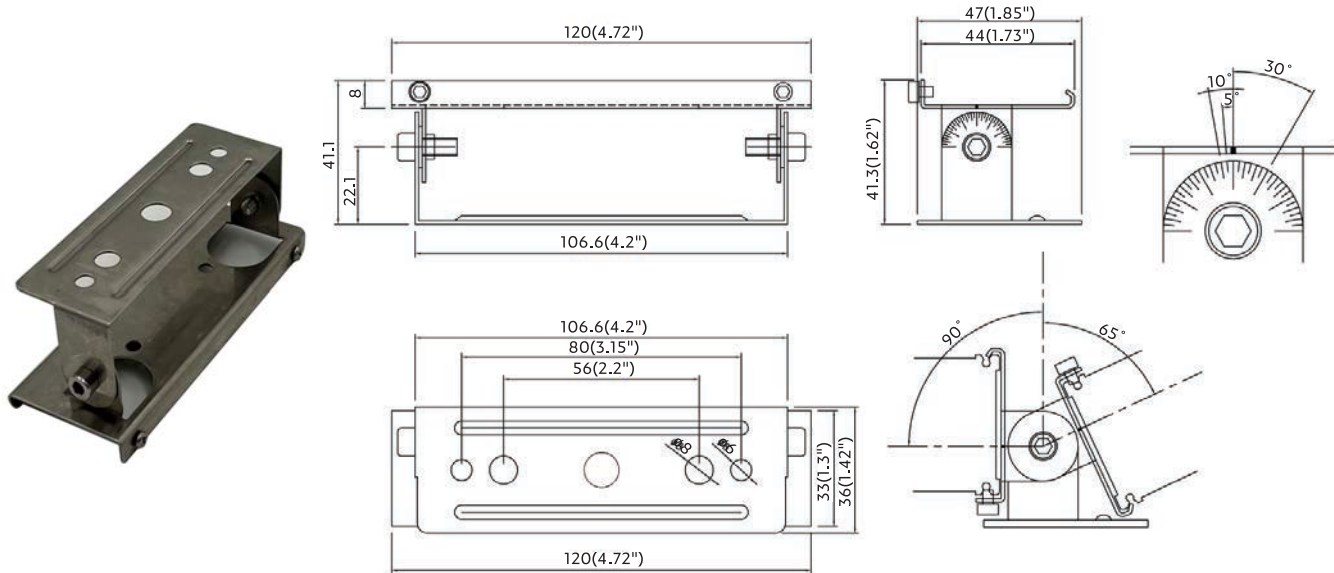
ADJUSTABLE BRACKETS

DESCRIPTION

HB40 Adjustable Bracket

PART NUMBER

AL-HB40 ADJ.Bracket



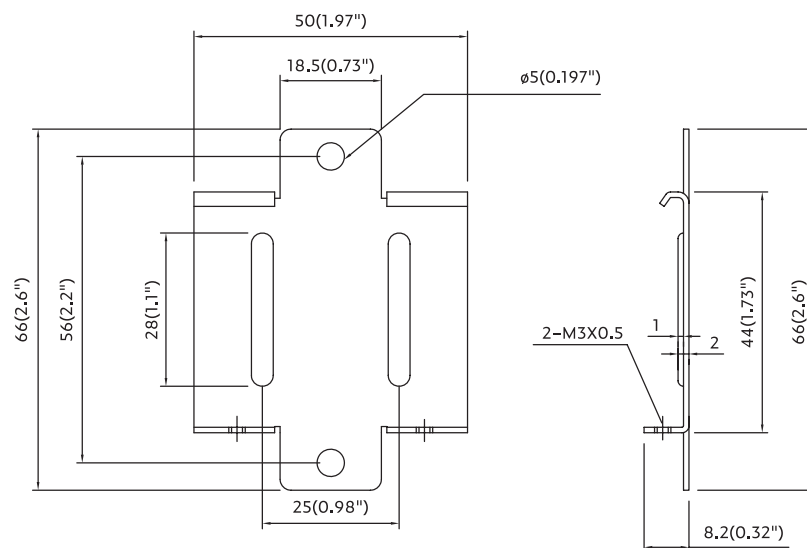
FLAT BRACKETS

DESCRIPTION

HB40HP Flat Bracket

PART NUMBER

AL-HB40HP-Flat Bracket



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.

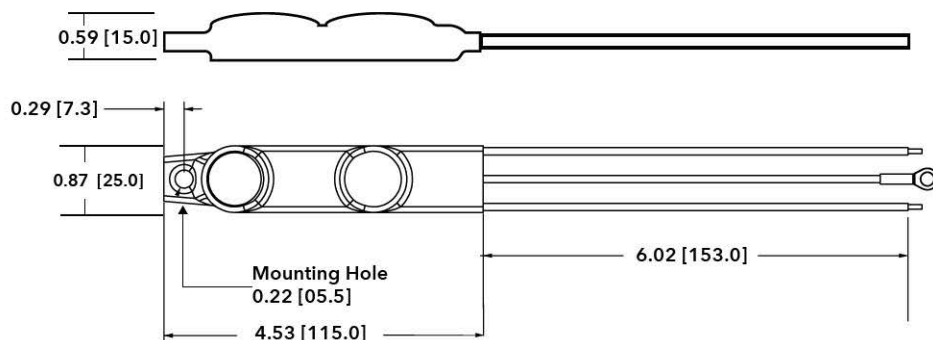
SPECIFICATIONS

| | | | |
|---------------------------------|--|------|------|
| 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

