



HB40HP RGB

LINEAR LED LIGHTBAR

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

Exterior: Graze | Wall Wash | Cove | Flood Lighting

The Smart Lighting Company HB40 Series wet location rated, high-performance linear fixtures designed for a range of exterior applications, including grazing, wall-washing, and flood lighting. With RGB color-changing capabilities at 13 watts per foot, it's ideal for creating dynamic and impactful lighting environments. These fixtures use Nichia bin-sorted LEDs and precision optics, ensuring high-quality, uniform illumination with less energy. Versatile and user-friendly, they feature DMX control and self-addressing capabilities, along with a variety of options for fixture length, color temperature, optics, mounting, and finishes. Each fixture includes an integral universal 100/277VAC power supply, is built with full thermal management, and is equipped with a Plug and Play cable system that simplifies installation while providing both power and signal. Constructed with a durable extruded anodized aluminum housing and tooled end caps, and featuring IP66 rated secure Plug and Play connectors, the HB40HP is perfect for providing powerful, consistent lighting.



SPECIFICATIONS

Date: _____

Type: _____

Project: _____

Firm: _____

PERFORMANCE

Output

13w/ft | 376lm/ft (12.1w/ft system)

Color Temperatures

RGB

Beam Angles

15°, 20°, 30°, 45°, 60°, 75°, 90°, 120°,
15°x35°, 18°x58°, 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
(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

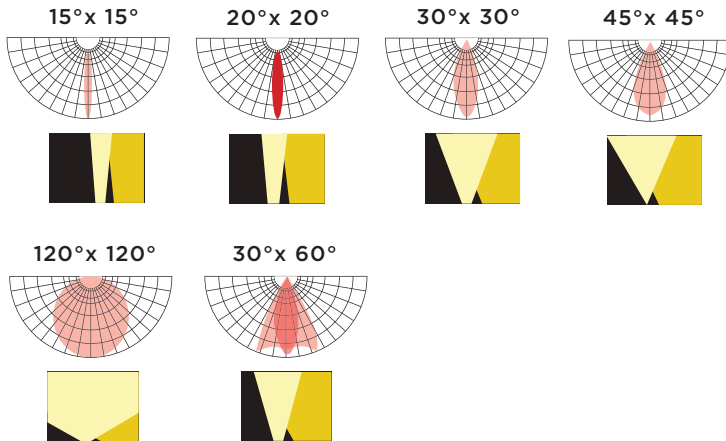
Certifications

UL, cUL

Warranty

5 year limited warranty

OPTICS



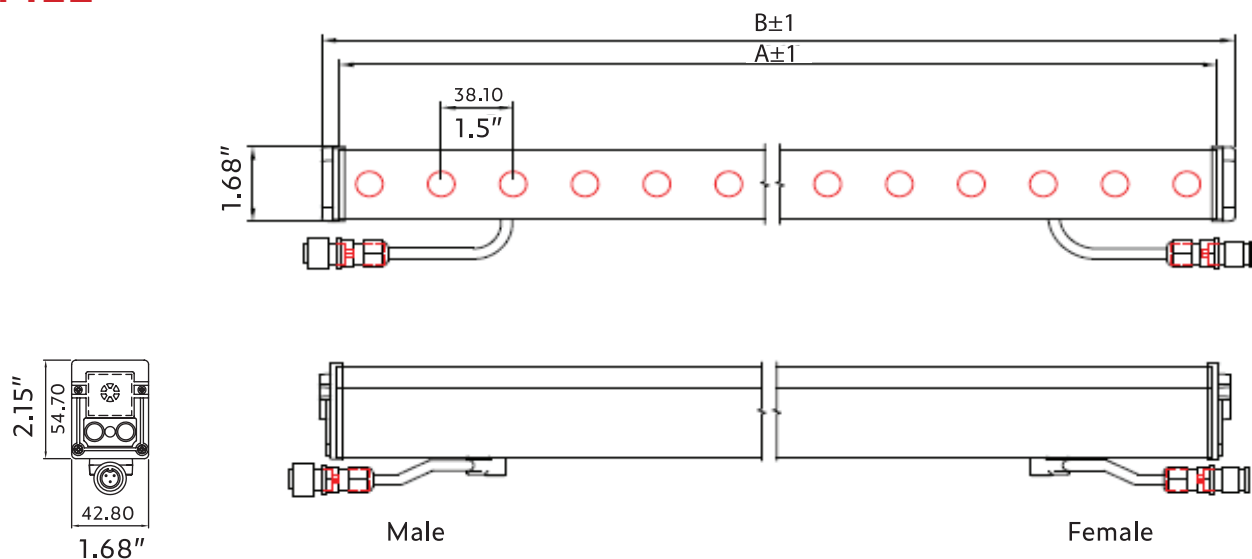
COLOR TEMPERATURES



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	313	3R, 3G, 3B	L=237.4mm	L=256mm (10")
HB40HP-19-XXK-XXD-ACD		45°, 60°, 75°	20w	595	6R, 6B, 6G	L=465.4mm	L=484mm (19")
HB40HP-28-XXK-XXD-ACD		90°, 120°	30w	877	9R, 9G, 9B	L=693.0mm	L=712mm (28")
HB40HP-37-XXK-XXD-ACD		15°x35°	40w	1159	12R, 12G, 12B	L=921.4mm	L=940mm (37")
HB40HP-46-XXK-XXD-ACD		18°x58° 30°x60°	50w	1441	15R, 15G, 15B	L=1149.4mm	L=1168mm (46")

PROFILE



ORDER FORM

Date: _____

Type: _____

Project: _____

Firm: _____

CREATE YOUR FIXTURE

Ex. HB40HP-46-RGB-45-AC-DM

MODEL	LENGTH	COLOR	OPTICS
HB40HP	13w/ft.	10" 10 inches	15 15°x15°
	19" 19 inches	19" 19 inches	20 20°x20°
	28" 28 inches	28" 28 inches	30 30°x30°
	37" 37 inches	37" 37 inches	45 45°x45°
	46" 46 inches	46" 46 inches	60 60°x60°
			75 75°x75°
			90 90°x90°
			120 120°x120°
			1535 15°x35°
			1858 18°x58°
			3060 30°x60°

VOLTAGE	CONTROL
AC	DM
100-277vac	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

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

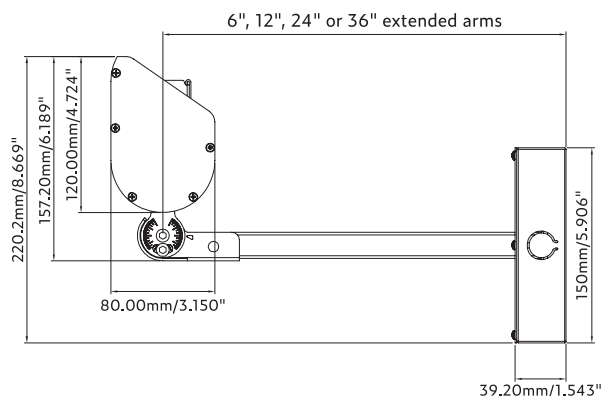
* Used in place of wire leads to separate power and signal

ADDITIONAL MOUNTING OPTIONS

Housing and Extended Arms

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

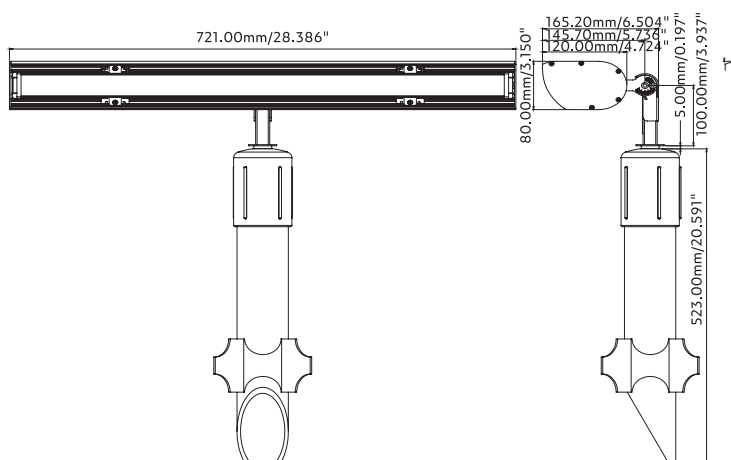
QTY	Housing	(L) Housing Length	(F) Finish	(A) Extended Arm Length
	HB40EXT-	10"	BK - Black	6"
		19"	BZ - Bronze	12"
		28"	WH - White	18"
		37"	SI - Silver	24"
		46"	CU - Custom	36"
GPA (Ground Post Arm)				



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



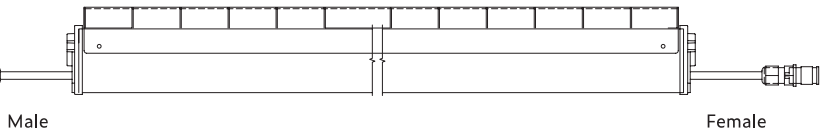
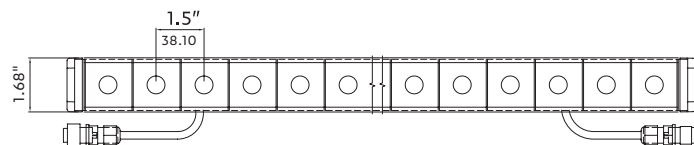
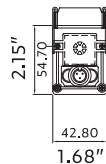
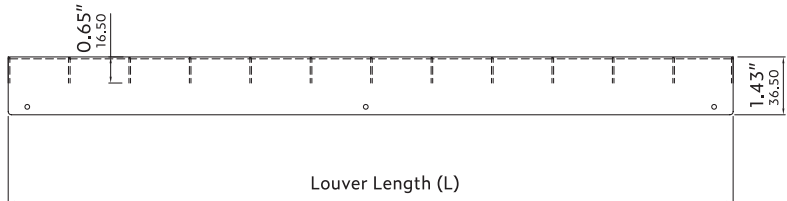
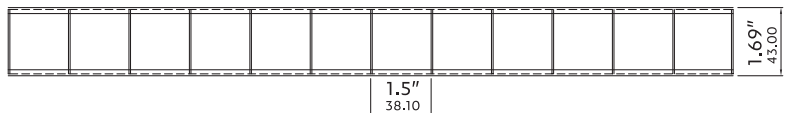
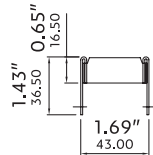
LOUVERS

Glare Control

Standard black finish powder coated louvers

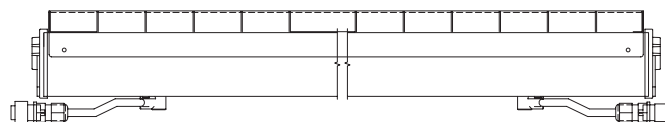
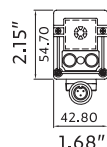
QTY	Housing	(L) Housing Length	(F) Finish
	HB40-10" LOUVER	10"	BK - Black
	HB40-19" LOUVER	19"	BZ - Bronze
	HB40-28" LOUVER	28"	WH - White
	HB40-37" LOUVER	37"	SI - Silver
	HB30-46" LOUVER	46"	CU - Custom

* Other powder coated finishes available for additional cost



Male

Female



Male

Female

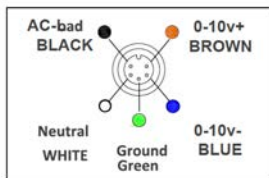
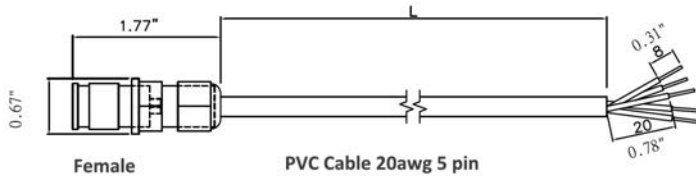
WIRE LEAD

DESCRIPTION

5 pin power / signal wire

PART NUMBER

AL-HB5P-xx"-W/L



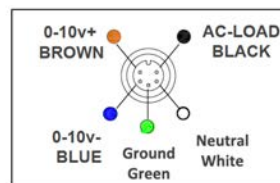
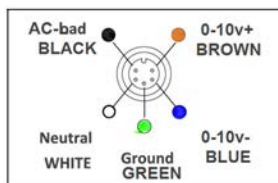
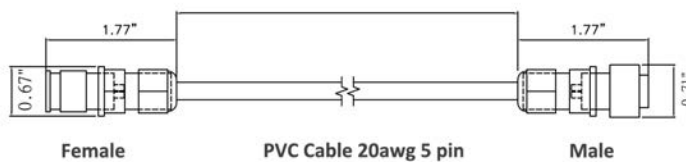
JUMPER CABLE

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

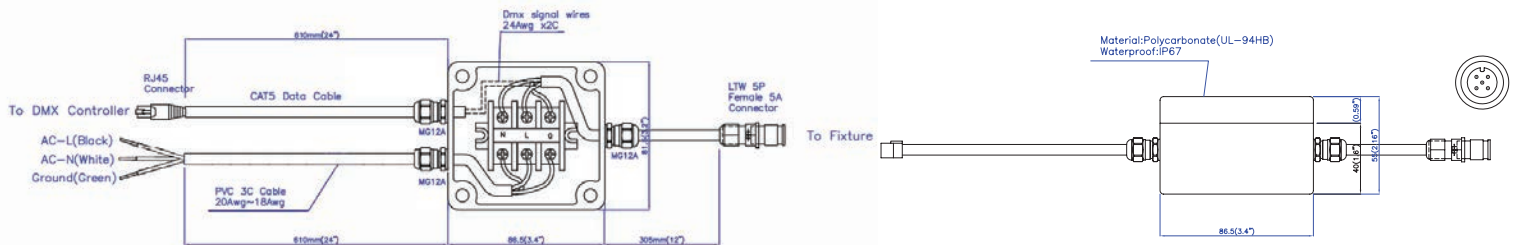
AC5A-DMX-3WB1

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

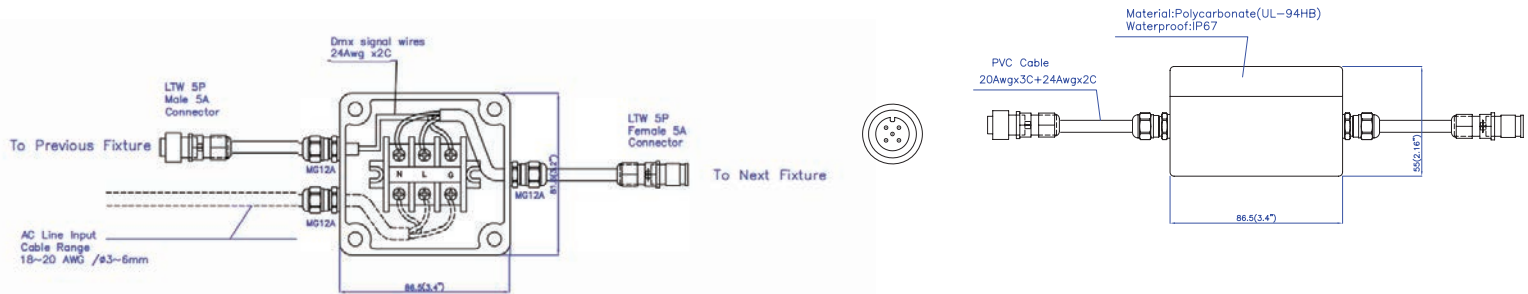
AC5A-DMX-3WB2

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

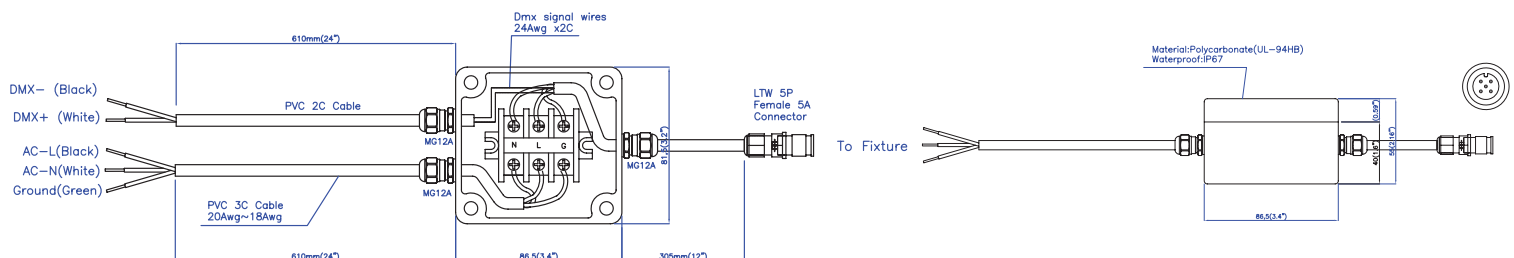
AC5A-DMX-3WB1

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



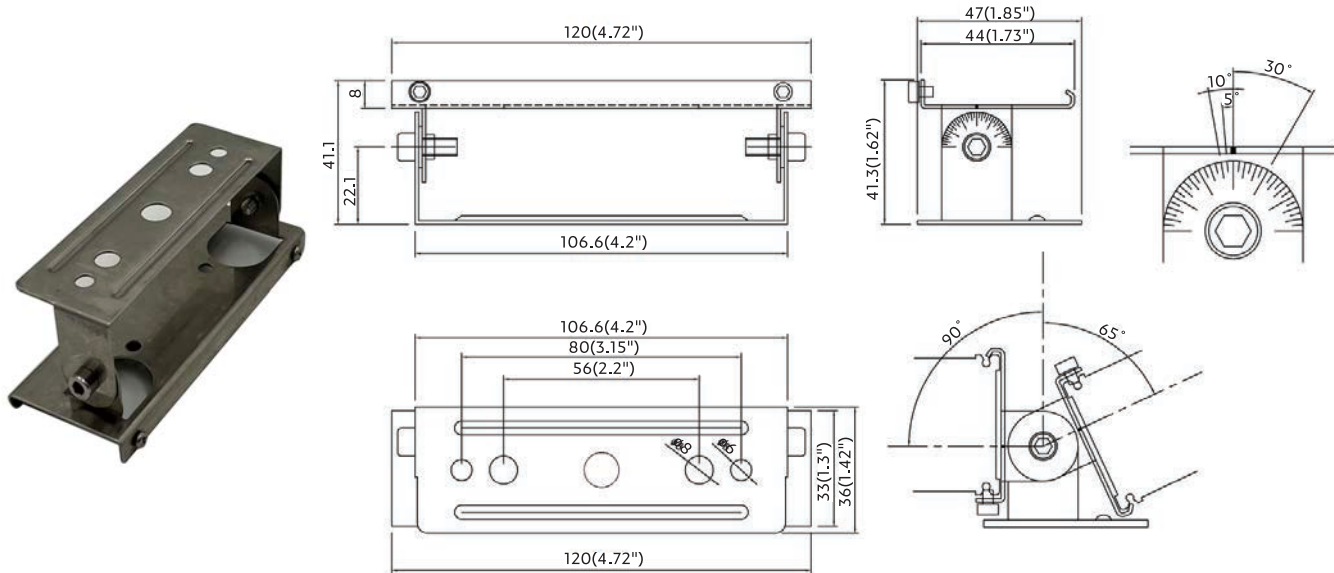
ADJUSTABLE BRACKETS

DESCRIPTION

HB40 Adjustable Bracket

PART NUMBER

AL-HB40 ADJ.Bracket



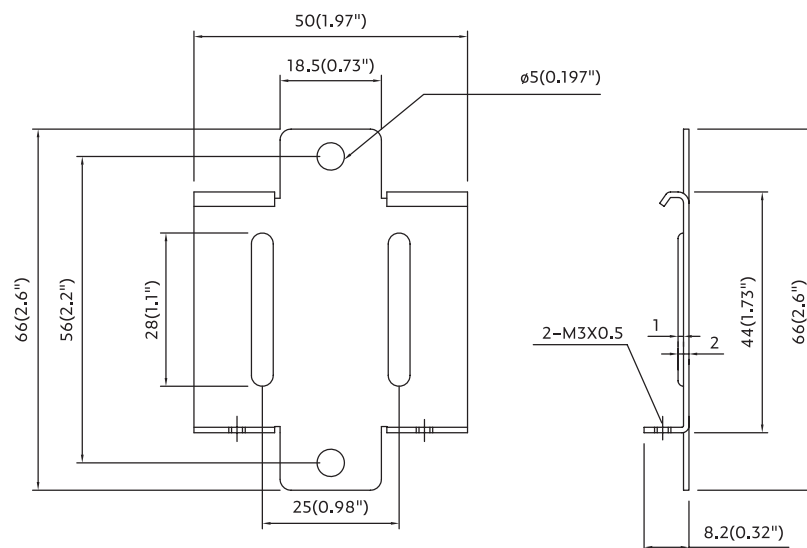
FLAT BRACKETS

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.

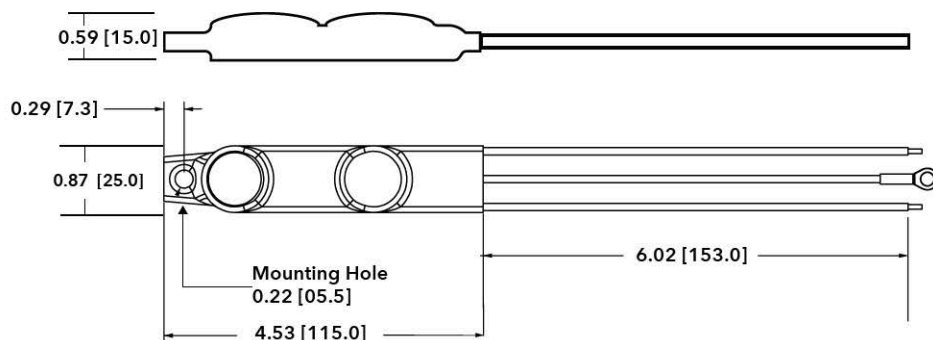
SPECIFICATIONS

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

