HB5240 RGBW

LINEAR LED LIGHTBAR

HIGH POWER | LOW PROFILE
18w/ft | RGBW | DMX

Exterior: Cove | Flood | Facade Lighting

Explore the robust capabilities of the HB5240 Series, IP66 rated high-powered linear fixtures from The Smart Lighting Company, designed for narrow spaces yet capable of intense illumination. Ideal for exterior cove, façade, and flood applications, these fixtures feature high-quality Nichia bin-sorted LEDs, ensuring uniform and powerful lighting. With DMX control and self-addressing, the HB5240 offers ease in integration and operation. Available in multiple lengths, with various mounting and housing finishes, these fixtures are adaptable to diverse architectural needs. An integral universal power supply and full thermal management system are built-in, complemented by a plug and play cable system for straightforward installation. The series also offers a range of mounting options and accessories, like powder-coated housings with glare shields, to enhance functionality and aesthetics. Perfect for delivering high-powered, reliable illumination to coves and surfaces, the HB52 Series exemplifies advanced, affordable lighting technology in a sleek, efficient package.

HB5224 LINEAR LED LIGHTBAR

SPECIFICATIONS

TSLC
THE SMART LIGHTING COMPANY

PERFORMANCE

Output
18w/ft

Color Temperatures
RGBW

Beam Angles
120°

LEDs per Foot
40 (8R, 8G, 8B, 16W)

LED's
Nichia bin-sorted

Color Consistency
2 SCDM

ELECTRICAL

Input Voltage
100-277vac

Power Supply
Integral

Control
DMX

Resolution
Per 6" 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
12", 24", 36", 48"

Max Run Length
61ft@277vac, 26ft@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
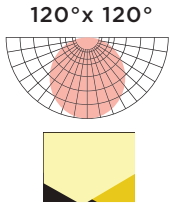0-100% non-condensing humidity

Certifications
UL, cUL

Warranty
5 year limited warranty

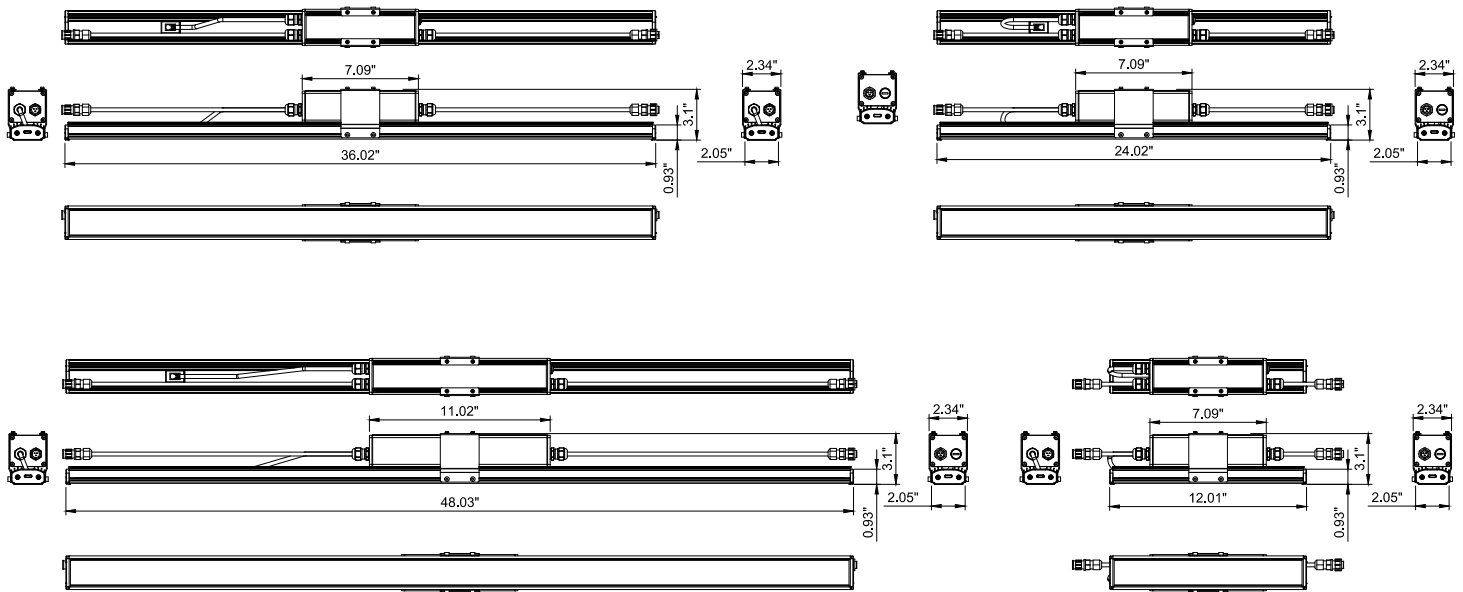technology by
LEDpower

TSLC
THE SMART LIGHTING COMPANY

HB5224 LINEAR LED LIGHTBAR

TSLC
THE SMART LIGHTING COMPANY

OPTICS

120°x 120°

COLOR TEMPERATURES

RGBW

DIMENSIONS AND DATA

18w/ft	Voltage	View Angle	Watts/ Fixture	Lumens/ Fixture	LEDs/ fixture	Extrusion Length	Total Length
HB5240-1-RGBW-120D-AC-DX	100-277VAC	120°	18w	TBD	8R, 8G, 8B, 16W	L=295mm	L=305mm (12")
HB5240-2-RGBW-120D-AC-DX			36w	TBD	16R, 16G, 16B, 32W	L=600mm	L=610mm (24")
HB5240-3-RGBW-120D-AC-DX			54w	TBD	24R, 24G, 24B, 48W	L=905mm	L=915mm (36")
HB5240-4-RGBW-120D-AC-DX			72w	TBD	32R, 32G, 32B, 64W	L=1210mm	L=1220mm (48")

PROFILE

technology by LEDpower

TSLC
THE SMART LIGHTING COMPANY

HB5224 LINEAR LED LIGHTBAR

ORDER FORM

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

CREATE YOUR FIXTURE

Ex. HB5240–4–RGBW65–120–AC–DM

MODEL

HB5240

LENGTH

1	12 inches
2	24 inches
3	36 inches
4	48 inches

COLOR

RGBW

Select the W - 65k is standard

27k	2700k
30k	3000k
35k	3500k
41k	4100k
50k	5000k
65k	6500k
A	Amber

OPTICS

120	120°x120°

VOLTAGE

AC   100-277vac

CONTROL

DM	Addressable/6"
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 PER FIXTURE	
	AL-HB52-ADJ BRACKET	HB52 Adjustable bracket
	AL-HB52-FLAT BRACKET	HB52 Flat bracket

* Select flat brackets 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
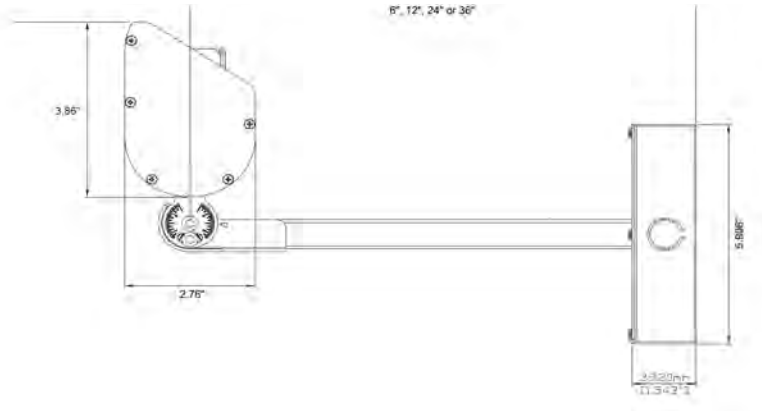
HB52 SERIES

ORDER FORM

ADDITIONAL MOUNTING OPTIONS

Housing and Extended Arms

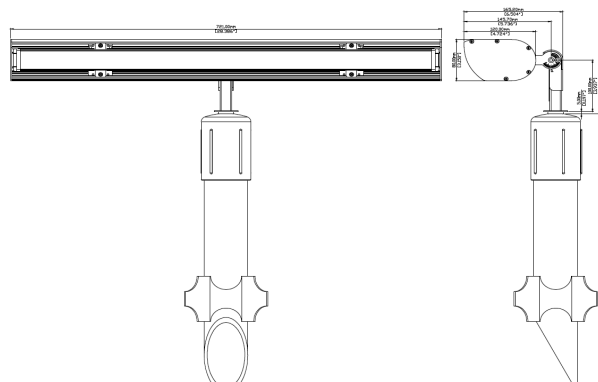**Fixture can be mounted in a powder coated housing with integral glare shield**

QTY	Housing	(L) Housing Length	(F) Finish	(A) Extended Arm Length
	HB52EXT-	12"	BK - Black	6"
		24"	BZ- Bronze	12"
		36"	WH - White	18"
		48"	SI - Silver	24"
			CU - Custom	36"
				GPA (Ground Post Arm)

Ground Posts

QTY **Select when using GPA above (1 per fixture for 12" & 24" housing and 2 for 36" & 48" housing)**
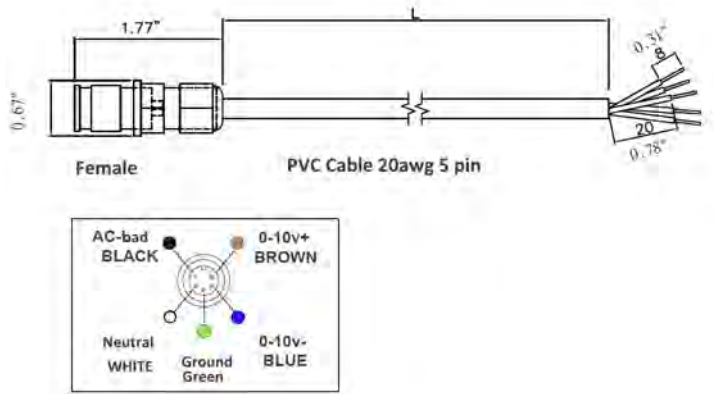
HBEXT-GPS   Ground post mount

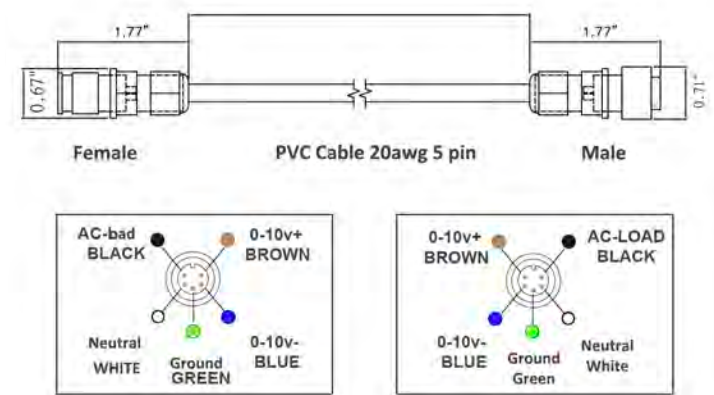**1ft & 2ft extrusions require one HBEXT-GPS. 3ft & 4ft extrusions require two HBEXT-GPS.**

HB52 SERIES

WIRING OPTIONS

WIRE LEAD

DESCRIPTION
5 pin power / signal wire

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

Female | PVC Cable 20awg 5 pin

AC-bad BLACK | 0-10v+ BROWN
Neutral WHITE | Ground Green | 0-10v- BLUE

JUMPER CABLE

DESCRIPTION
5 pin power / signal jumper

PART NUMBER
AL-HB5P-xx"-J

Female | PVC Cable 20awg 5 pin | Male

AC-bad BLACK | 0-10v+ BROWN
Neutral WHITE | Ground GREEN | 0-10v- BLUE

0-10v+ BROWN | AC-LOAD BLACK
0-10v- BLUE | Ground Green | Neutral White

POWER/SIGNAL

DISTRIBUTION BOXES

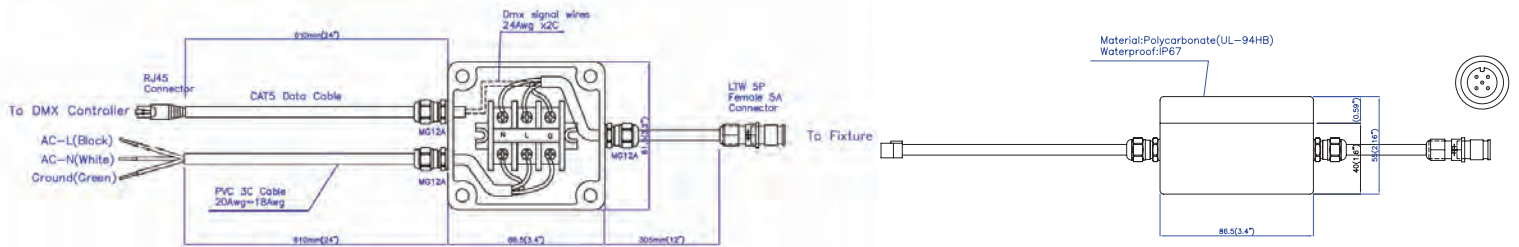### JUNCTION BOX – POWER AND CAT5 SIGNAL SPLITTER

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

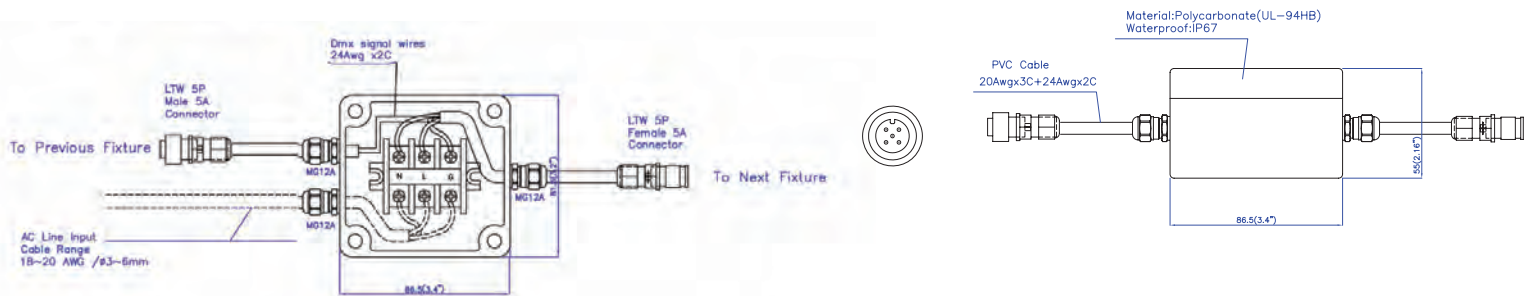### JUNCTION BOX–AC POWER AMPLIFIER FOR LONG RUN LENGTHS

JUNCTION BOX

AC5A-DMX-3WB2

INPUT

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

OUTPUT

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

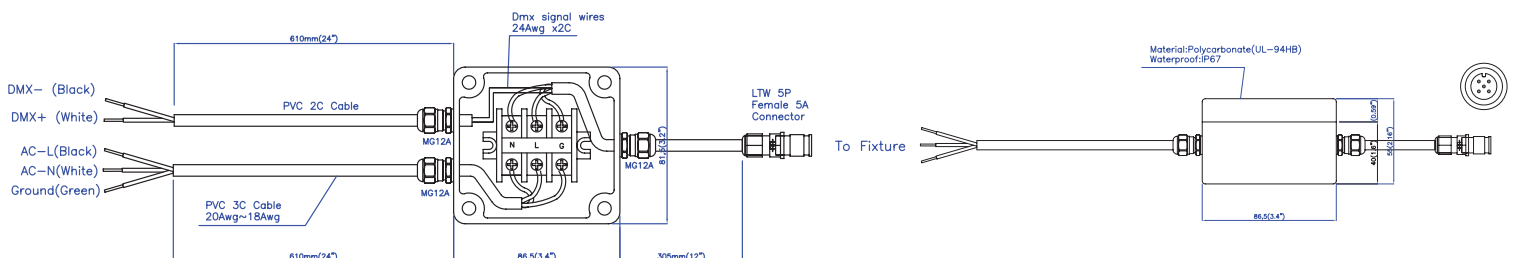### JUNCTION BOX – POWER AND WIRE LEAD SIGNAL SPLITTER

JUNCTION BOX

AC5A-DMX-3WB1

INPUT

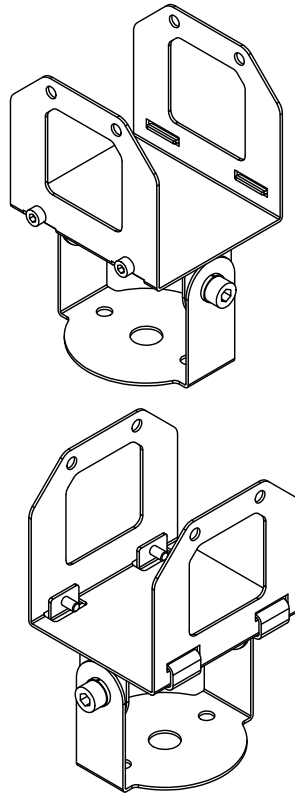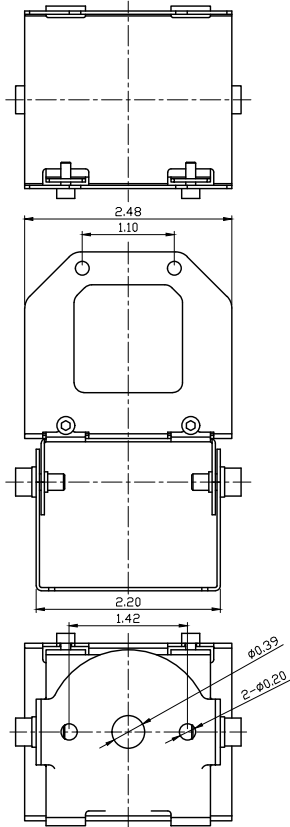24" PVC Cable (2 leads) for DMX Data 24" PVC Cable (3 leads) for AC Power

OUTPUT

12" Cable w 5P Female 5A Connector

LEDpower technology by

TSLC
THE SMART LIGHTING COMPANY

HB52 SERIES

MOUNTING BRACKETS

ADJUSTABLE BRACKETS

DESCRIPTION
HB52 Adjustable Bracket

PART NUMBER
AL-HB52 ADJ.Bracket

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

technology by
LEDpower

TSLC
THE SMART LIGHTING COMPANY

HB30 SERIES

SURGE PROTECTION DEVICE

TSLC
THE SMART LIGHTING COMPANY

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.
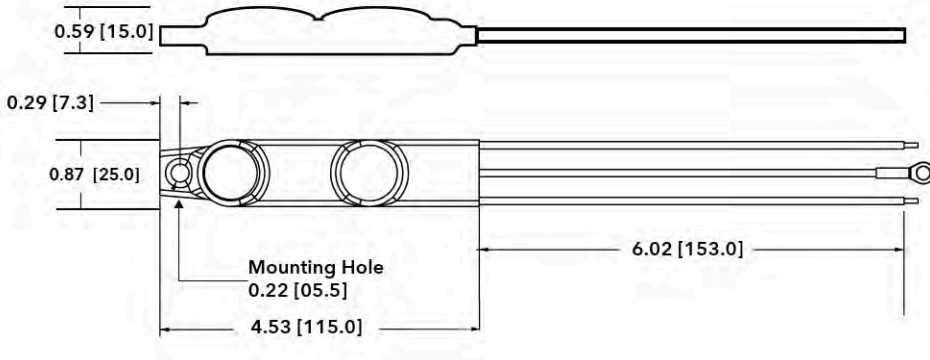
SPECIFICATIONS

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