

I-Lux LED V2 Style U Instruction Booklet





Flight Light Inc.
Ph: 916.394.2800
Fx: 916.394.2809
www.flightlight.com

L830 Requirements / Power Factor / VA Loads

Number of LED Modules	L830 Transformer <i>Style 2 / Style 3</i>	Power Factor	Volt Amp - VA Load	Config.(s)
2	65	.96	35	Sz1 1.0
4	65	.96	44	Sz 2&3 1.0 Sz 1 2.0
6	100	.93	49	Sz 1 3.0
8	100	.93	55	Sz 1 4.0 Sz 2&3 1.5 & 2.0
12	100	.93	63	Sz 2&3 2.5 & 3.0
16	200	.93	76	Sz 2&3 3.5 & 4.0

I-LUX Pad Mounting Guide

X = Suggested concrete pad dimension

Y = Sign length

Z = Distance between leg centers

E = Distance from edge of sign to leg center

All signs are 10" wide, with typical L867B cans illustrated.



Flight Light Inc.

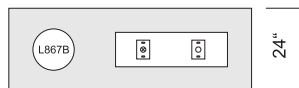
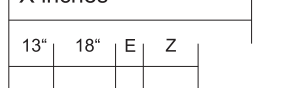
Ph: 916.394.2800

Fx: 916.394.2809

www.flightlight.com

1 Module

X inches



Y inches

1.5 Module

X inches



Y inches

2 Module

X inches



Y inches

2.5 Module

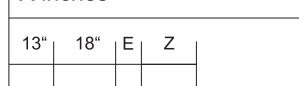
X inches



Y inches

3 Module

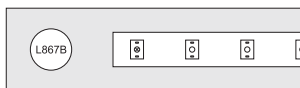
X inches



Y inches

3.5 Module

X inches



Y inches

4 Module

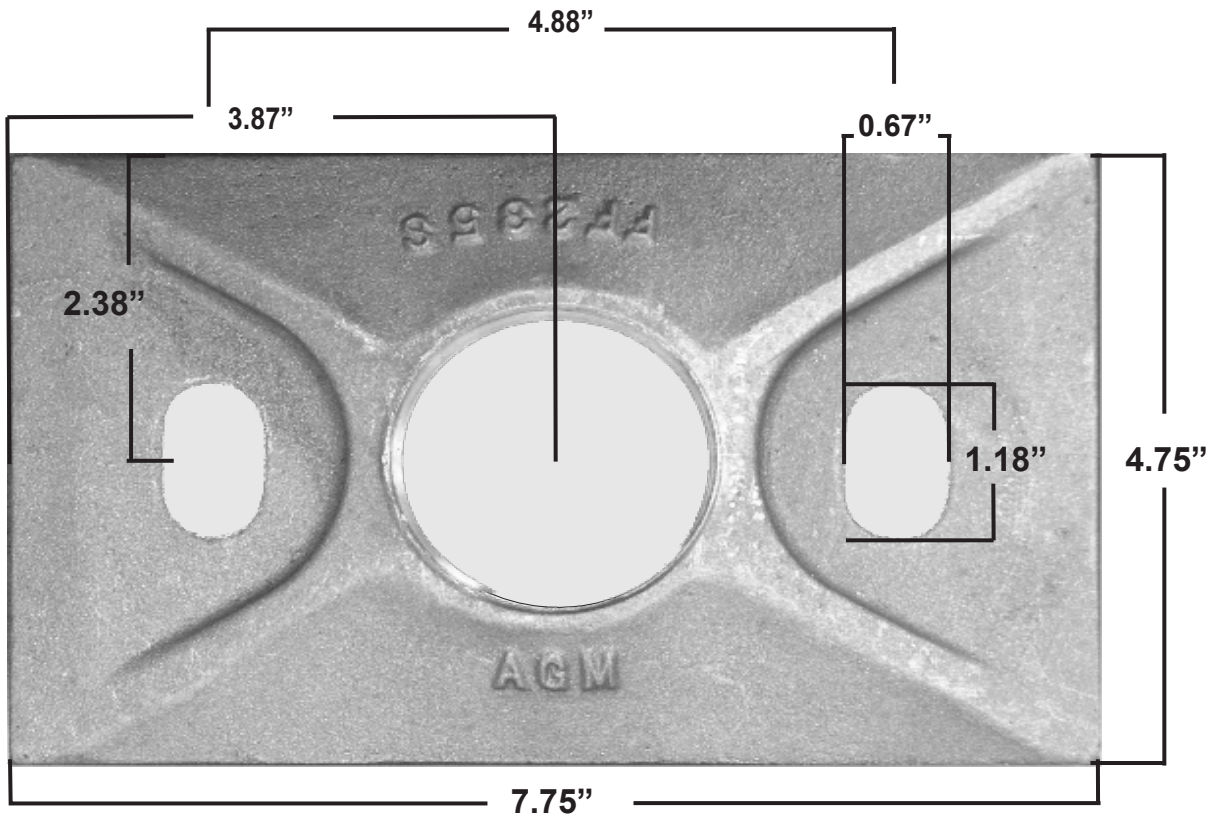
X inches



Y inches

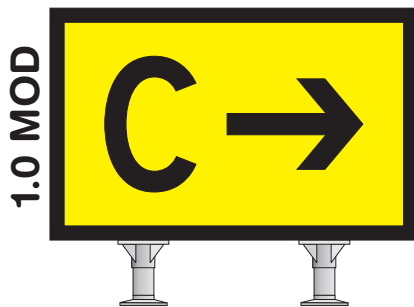
	Size 1	Size 2	Size 3	Size 5
Leg Spacing	Z=16	Z=19	Z=22.5	Z=16
1 Module	X=70.5 Y=32.5 E=8.25	X=76.5 Y=38.5 E=9.75	X=83 Y=45 E=11.25	X=70.5 Y=32.5
1.5 Module	X=85.5 Y=47.5 E=7.75	X=94.5 Y=56.5 E=9.25	X=104.25 Y=66.25 E=10.625	
2 Module	X=100.5 Y=62.5 E=7.25	X=112.5 Y=74.5 E=8.75	X=125.5 Y=87.5 E=10	
2.5 Module	X=115.5 Y=77.5 E=6.75	X=130.5 Y=92.5 E=8.25	X=146.75 Y=108.75 E=9.375	
3 Module	X=130.5 Y=92.5 E=6.25	X=148.5 Y=110.5 E=7.75	X=168 Y=130 E=8.75	
3.5 Module	X=145.5 Y=107.5 E=5.75	X=166.5 Y=128.5 E=7.25	X=189.25 Y=151.75 E=8.375	
4 Module	X=160.5 Y=122.5 E=5.25	X=184.5 Y=146.5 E=6.75	X=210.5 Y=172.25 E=7.375	

Floor Flange Dimensions



Sign Size	Legend Size	Viewable Panel Height	Overall Sign Height	Panel Height
1	12"	18"	27"	19 ^{7/8"}
2	15"	24"	33"	25 ^{7/8"}
3 & 5	18"	30"	39"	31 ^{7/8"}
4	40"	48"	56.5"	50"

Size 1



Size 4



Size 2



Size 3





Flight Light Inc.
Ph: 916.394.2800
Fx: 916.394.2809
www.flightlight.com

I-Lux LED V2 Installation

1. Place the sign on the pad with the floor flanges perpendicular to the length of the sign.
2. Mark mounting locations.
3. Move the sign out of the way.
4. Drill mounting holes for anchor bolts.
5. Install L-830 transformer into the base can.
 - Check technical data sheet to make sure correct wattage is used.
6. Secure cable clamp to transformer secondary lead or secondary extension cord.
7. Reposition the sign on the pad and hold at an angle.
8. Pull the power cord out of the leg of the sign, plug it into the transformer secondary lead or extension cord.
9. Rotate the sign to the upright position over the anchor holes being careful to not pinch the power cord.
10. Loosely clamp flanges to the pad.
11. Loosen the pinch bolts in the slip flanges.
12. Tighten the anchors on the floor flanges.
13. Tighten the pinch bolts in the slip flanges against the couplings.

I-Lux LED V2 Maintenance

Signs are designed to provide decades of trouble-free service. Prior to the performance of any work on the signs, power should be disconnected either at the vault or through use of the sign's power switch (if so equipped). We recommend an annual inspection & wiping down of the sign interior to maintain bright and even light output. Inspection of the signs should also include removal of any excess dirt, snow, and avian excrement to maintain proper visibility of the sign legend.

I-Lux Warranty

The I-Lux brand of signs are manufactured under AC 150/5345-44 current edition, *Specifications for Runway and Taxiway Signs*, and warranted for 2 years after the installation date. Any defects in material or workmanship will be corrected or the sign replaced by the manufacturer at no cost to the airport owner within the warranty period.

I-Lux Installation Troubleshooting

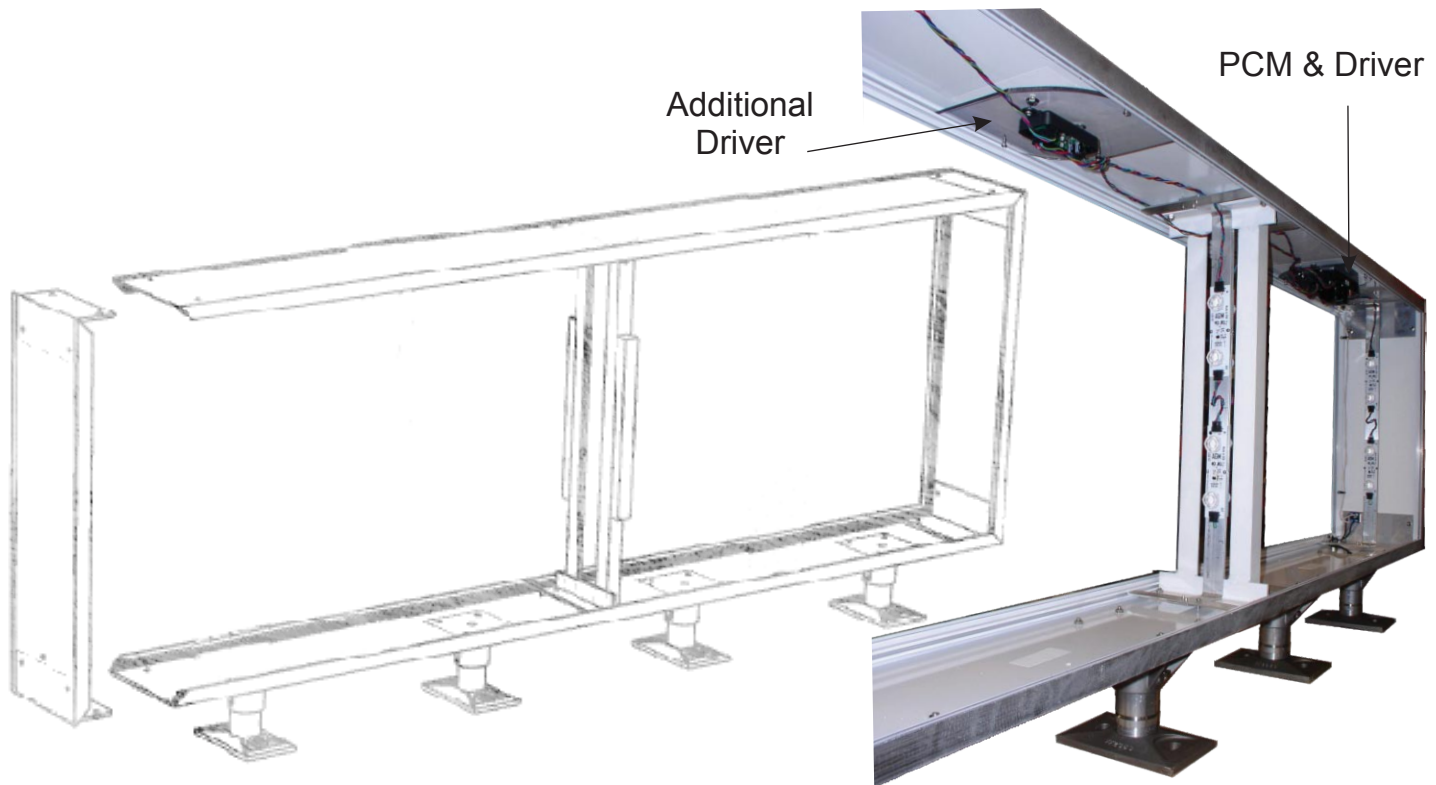
All signs have been tested at the factory and set to function within FAA specifications immediately upon installation. Just install and walk away. Installation issues are almost always traced back to a failed lamp or an undersized isolation transformer. If the lamps and isolation transformer appear functional, please call us and we will be pleased to assist you.

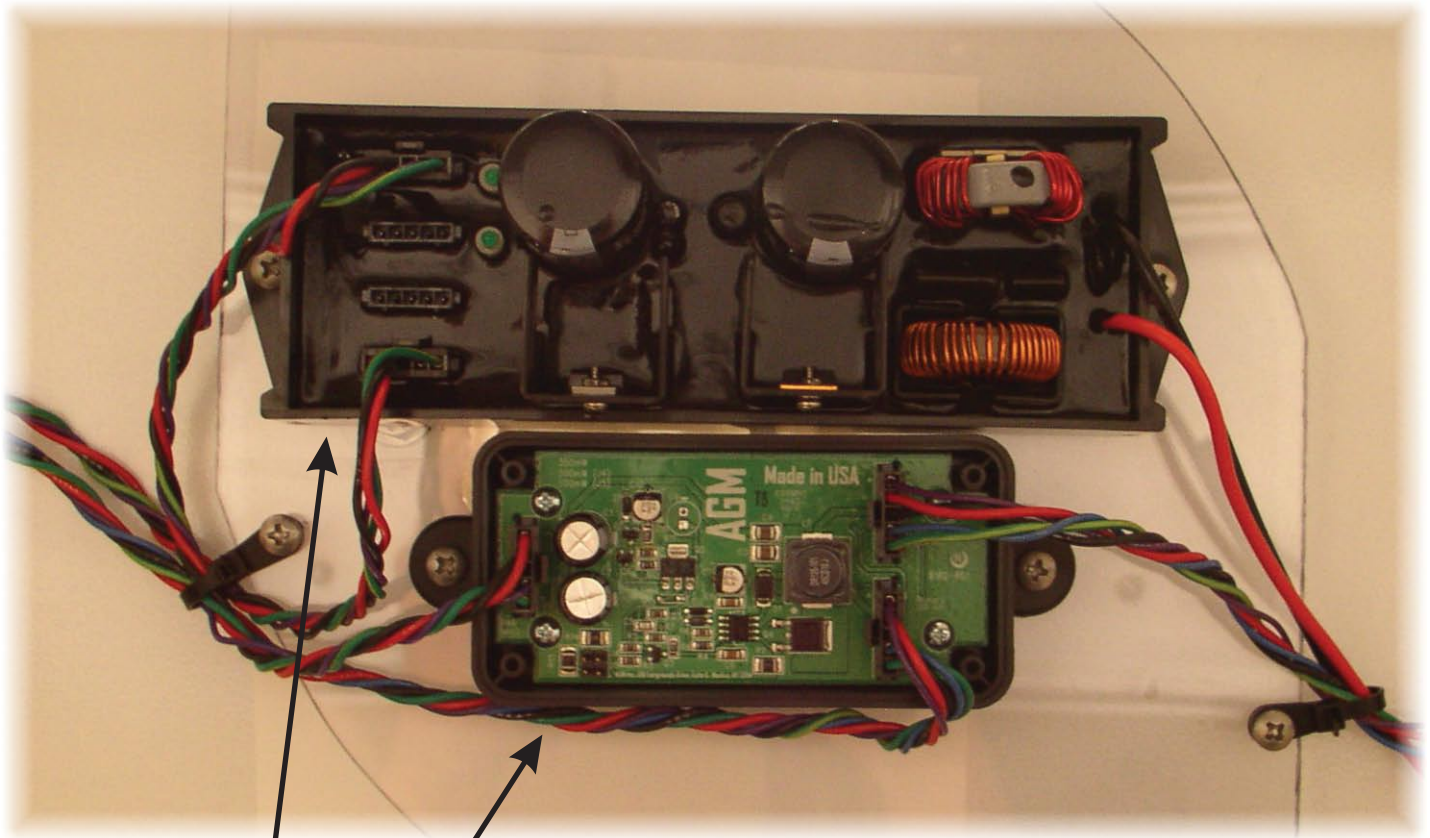
I-Lux Field Trouble Shooting

If your I-Lux happens to require attention, we are please to assist you at 916.394.2800. We keep all parts in stock and ship within 24 hours. Lamp failure is by far the most common reason your sign will not illuminate. The FAA requires all signs to be wired in such a way that when one lamp fails, the whole sign goes dark. Examine LED modules and if one has failed it will be indicated by a red LED on the surface of the LED module circuit board.

I-Lux PCM Access

- 1.) Remove the bolts (7/16 socket) from the *top* and *bottom* surface of the side opposite the power end.
- 2.) Slide the sign side cabinet extrusion out.
- 3.) Remove sign panel by sliding out the open end of sign.
- 4.) PCM is mounted on the underside of the top extrusion. Unplug wiring connections, loosen locking screws on either side of the mounting plate, and rotate mounting plate to remove.



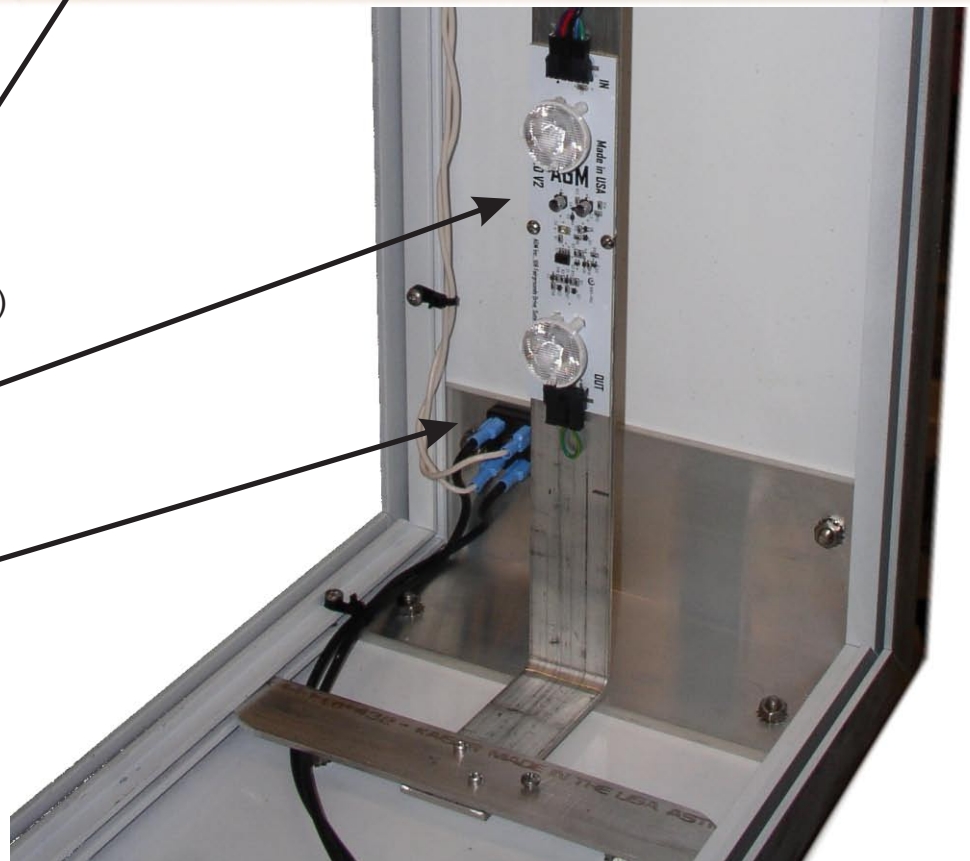


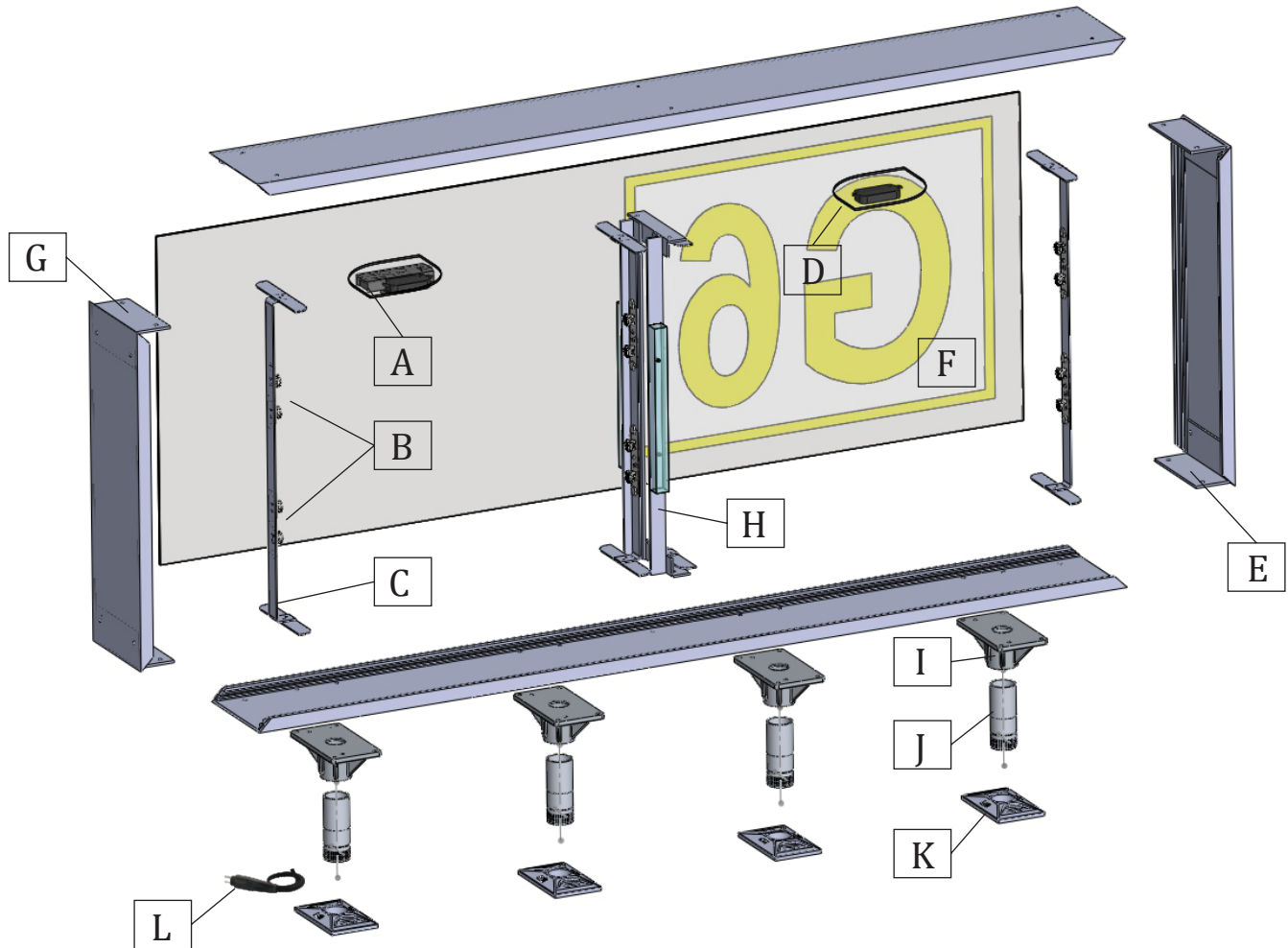
LED V2 PCM

Driver Module
(up to 6 LED Module / Driver)

LED V2 Module

Rectifying Bridge





I-Lux LED V2 Part List

Part #	Description	Part #	Description
A	C7-LVCV2 Low Voltage PCM	H	I6-#SP Support Post (size 2 or 3 only)
B	C7-LEDV2 V2 LED Modules	I	C6-SF5 Slip Flange
C	I7-LMB# I-Lux LED Mounting Bracket	J	I6-FC#§ Frangible Coupling
D	C7-DRVR LED Driver Module	K	C6-FF235 Floor Flange
E	I6-CBN Corner Bracket with Knurl Nut	L	C7-36PC Power Cord
F	I8-#LP00 Panel (When ordering replace 00 with sign length.)		C6-THR Tether (not pictured)
G	I6-CB Corner Bracket		C9-INP Name Plate (not pictured)

When ordering
§ = For Mode 3 add "M3" after part number
= Sign Size