

## Supplier Scouting Opportunity Synopsis 2023-044

**Item to be scouted:** TRH Sensor Power Supply and Mounting Hardware

**Item description:** National Weather Service (NWS) Automated Surface Observation System (ASOS) is currently going through a Service Life Extension Program (SLEP). NWS procured an updated Temperature Relative Humidity (TRH) Sensor, the Vaisala model HMP155. The power supply kit is a pre-designed polycarbonate enclosure with din rail mounted Commercial-off-the-Shelf (COTS) parts and includes cable assemblies, wiring and labeling. There is one circuit card assembly that must be produced as part of the production. The government will provide a detailed document for the loading of software on this circuit board prior to delivery. Required for the install of the new sensor, build to print power supplies and mounting hardware. Mounting Hardware Kit is comprised of COTS parts that must be labeled and packed as an installation kit.

**NAICS code:** 334519

### Technical Information

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### Supplier Information

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**Type of supplier being sought:** Manufacturer

**Reason for scouting submission:** New product startup

### Summary of technical specifications and performance requirements

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**Describe the manufacturing processes (elaborate to provide as much detail as possible):** The power supply kit is a pre-designed polycarbonate enclosure with din rail mounted COTS parts. This will include terminal boards, circuit board, cable assemblies, wiring and labeling. There is one circuit card assembly that must be produced as part of the production. The government will provide a detailed document for the loading of software onto this circuit board prior to delivery. Please see attached reference design and parts. Mounting Hardware will be obtaining the listed items which is comprised of COTS parts. The vendor will be responsible for providing a packaged kit is comprised of that must be labeled and packed as an installation kit.

**Provide dimensions / size / tolerances / performance specifications for the item:** Power supply enclosure: 15.24 x 13.24 x 7.72 in. Reference Attached Schematic S100-43030 REV - 1.pdf Mounting Hardware Kit: Pole mount, various sizes pipe sizes with largest being 5ft section of 3" pipe, nuts, screws, washers. See attached specification sheet. Additional prototype photo for the TRH Sensor Mounting Hardware and Power supply box attached.

**List required materials needed to make the product, including materials of product components:**

See attached spec sheet

**Are there applicable certification requirements?:** No

**Are there applicable regulations?:** No

**Are there any other standards, requirements, etc.?:** Please see attached Schematic S100-43030 REV - 1 for details.

**Additional Comments:**

Parts are not limited to the listed items. An alternative part can be submitted to the government for approved use.

## **Business Information**

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### **Volume and pricing**

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**Estimated potential business volume:** Estimated potential 300 power supply units per year, approximately over a 5 year ordering period. Estimated potential 300 mounting hardware kits per year, approximately over a 5 year ordering period.

**Estimated target price / unit cost information (if unavailable explain):** The government has estimated \$1,350.00 per power supply unit and estimated \$1,220.00 per mounting hardware kit.

### **Delivery requirements**

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**When is it needed by?:** Estimated production to begin September 2023 and continue for five years.

**Describe packaging requirements:** Each power supply and mounting hardware kit shall be packaged individually packaged and labeled, as these will be shipped to NOAA National Logistics and Reconditioning Center (NLRC). After government acceptance, the units may be placed on the shelf or shipped to the planned ASOS installation site (at cost of the government). The vendor is encouraged to bulk/lot shipments to the NLRC. Be advised, the packaging must pass inspection and be durable for multiple shipping locations after receipt from the NLRC.

### **Where will this item be shipped?:**

NOAA National Logistics and Reconditioning Center (NLRC)  
14200 Merritt Rd  
Grandview, Missouri 64030

### **Additional comments**

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**Is there other information you would like to include?:** While it is advantageous to the government to have a vendor can provide both a power supply and mounting hardware solution. The government is not restricted to one vendor and will consider multiple vendors for who can provide either power supply or mounting hardware solutions who will provide the best value to the government.

## **Additional Information**

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### **Photos or diagrams of the item**

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**Check if you uploaded file(s) to Box.com:** Yes





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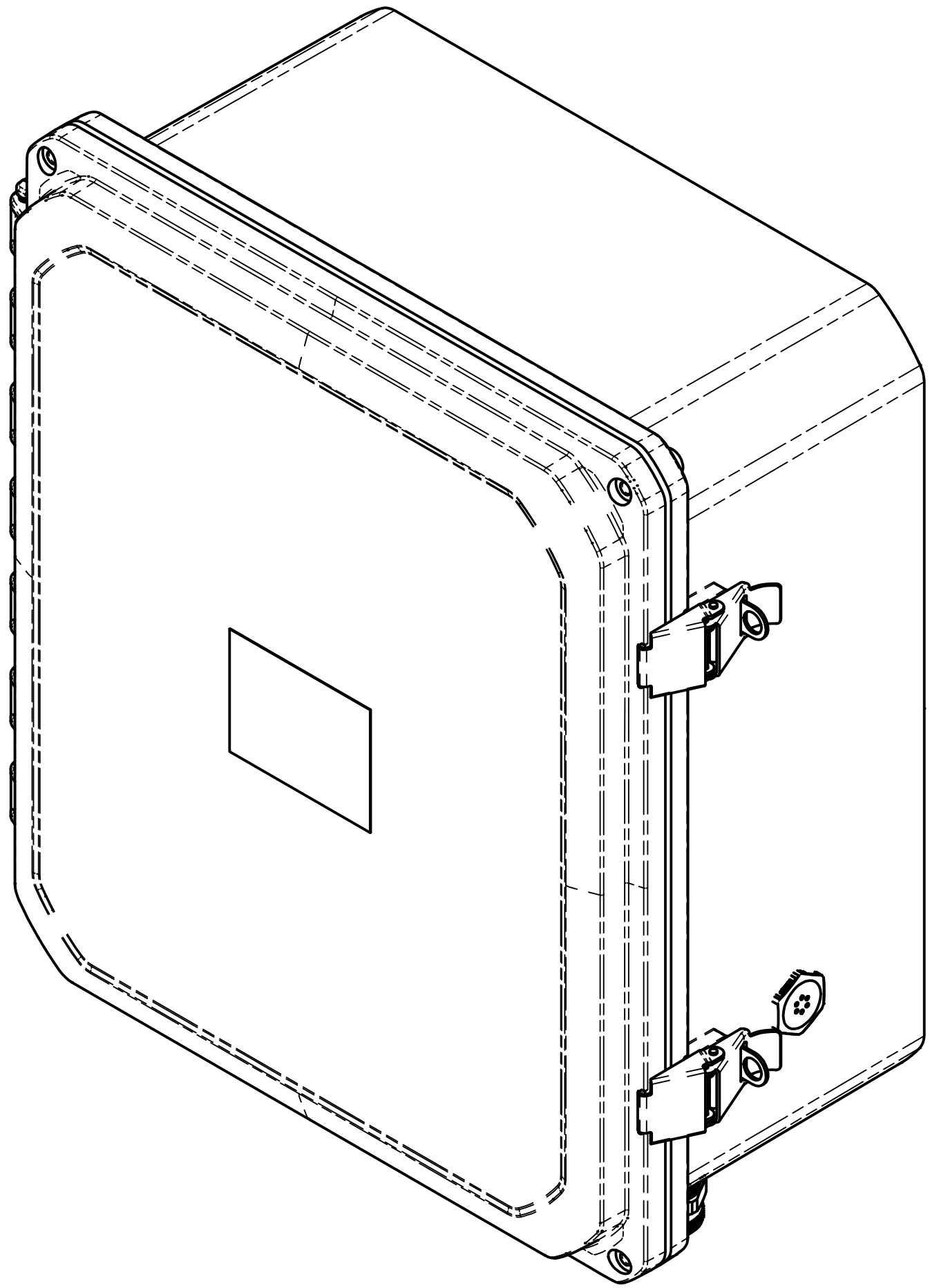
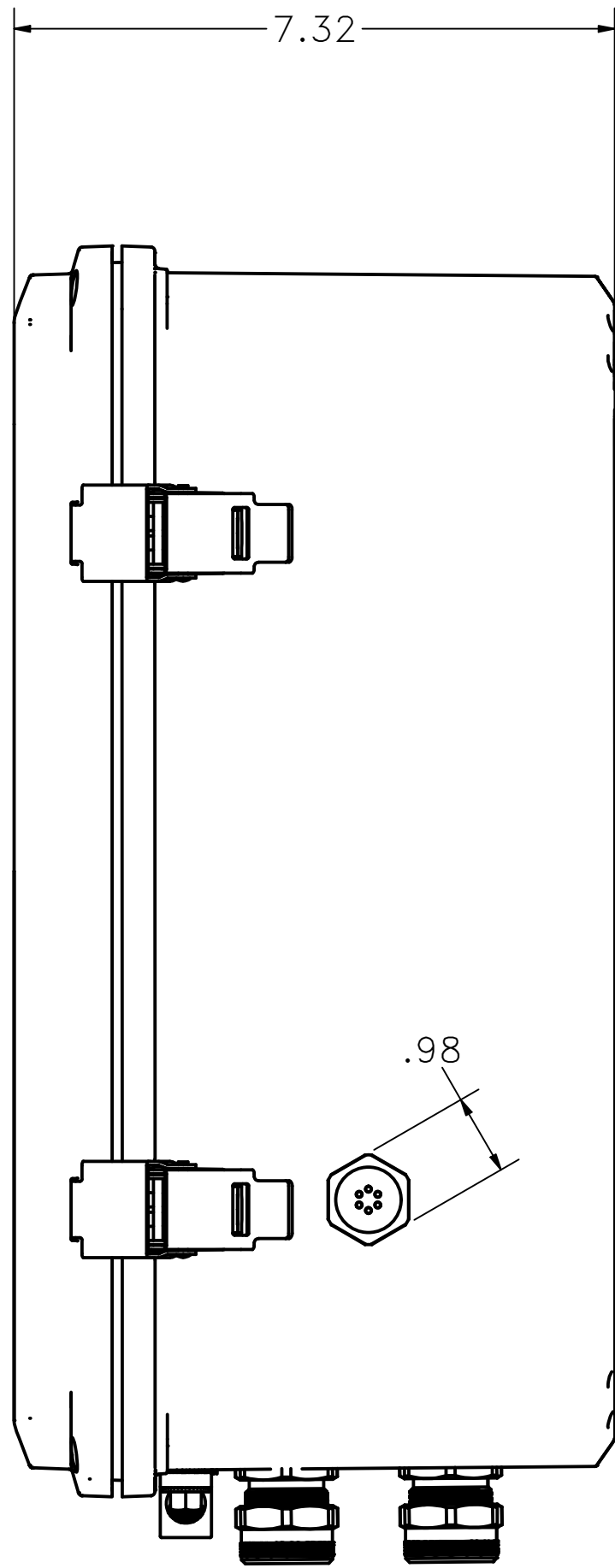
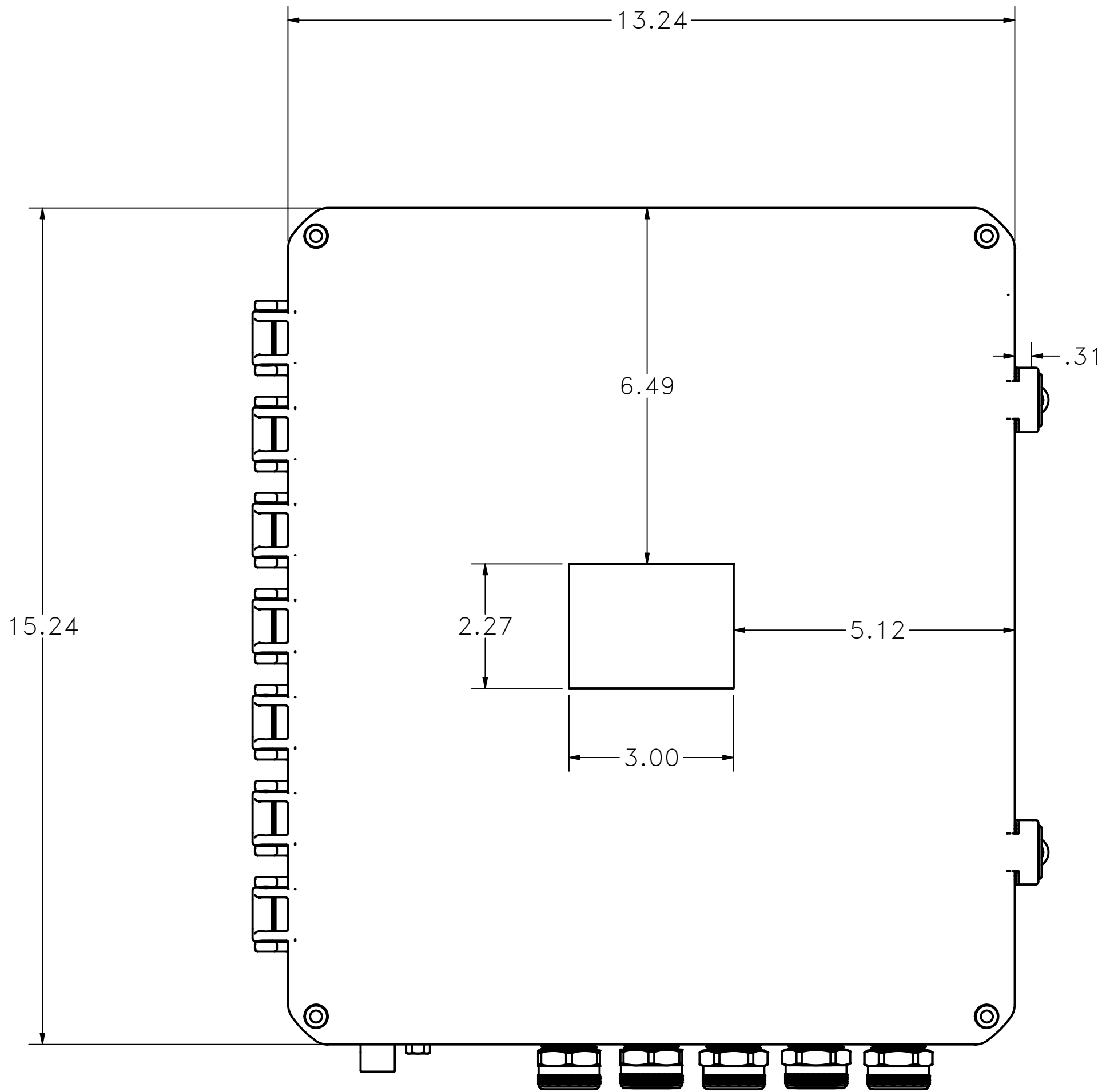
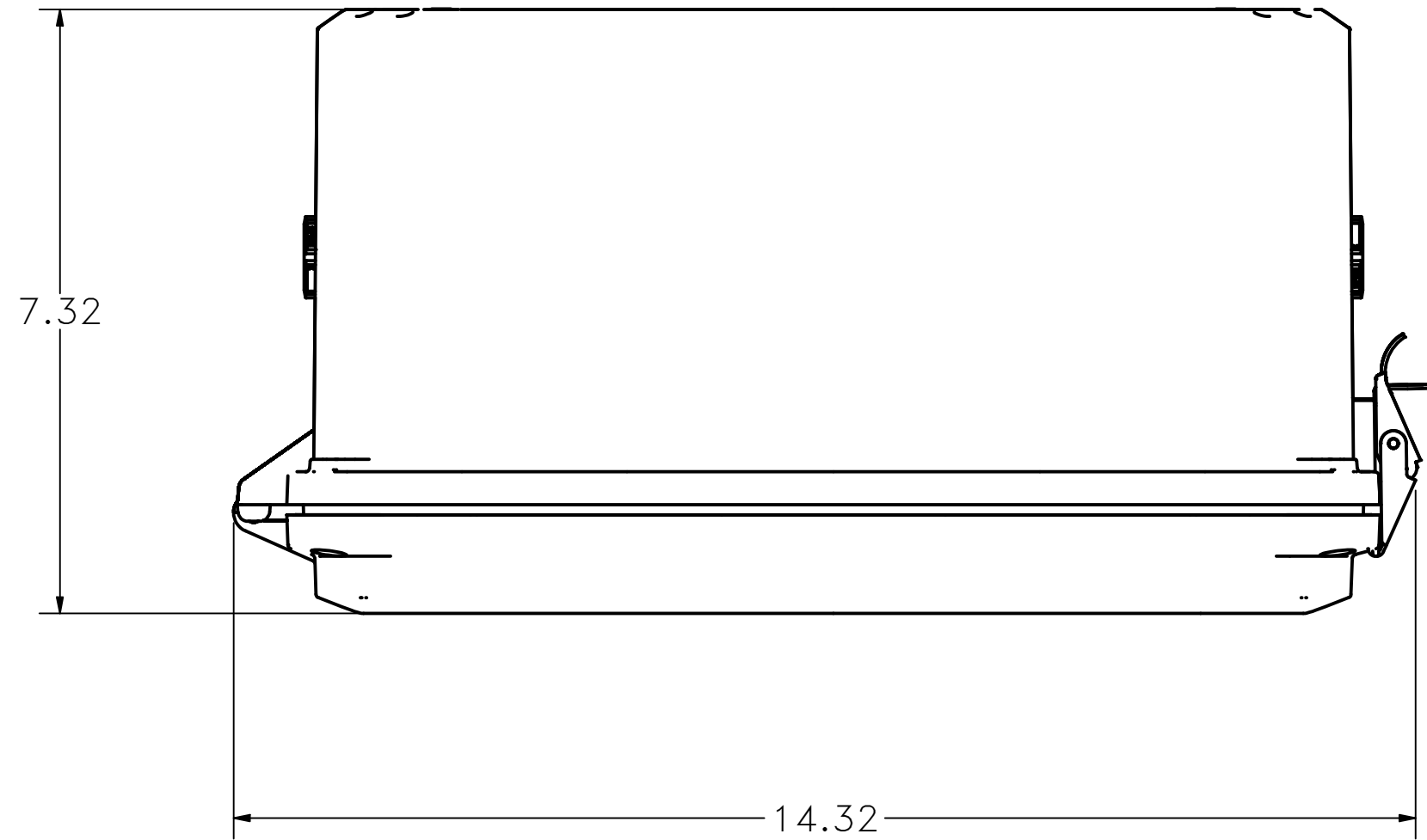
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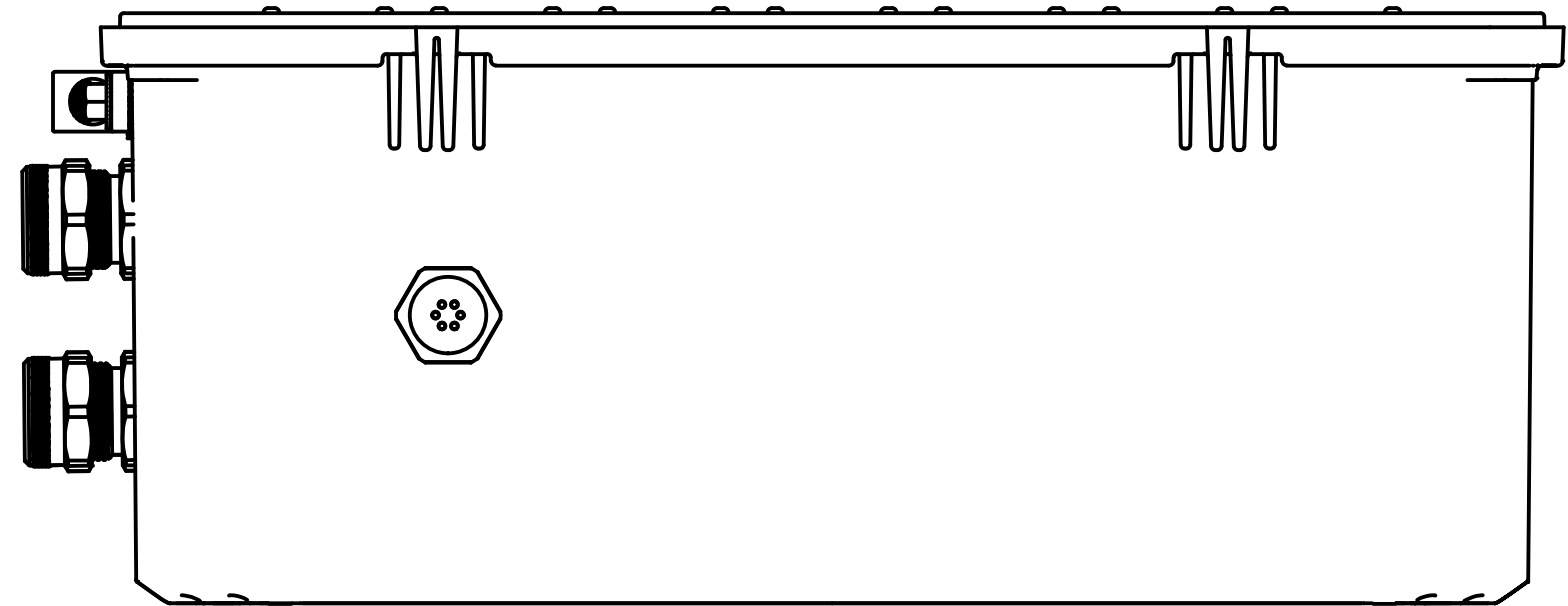
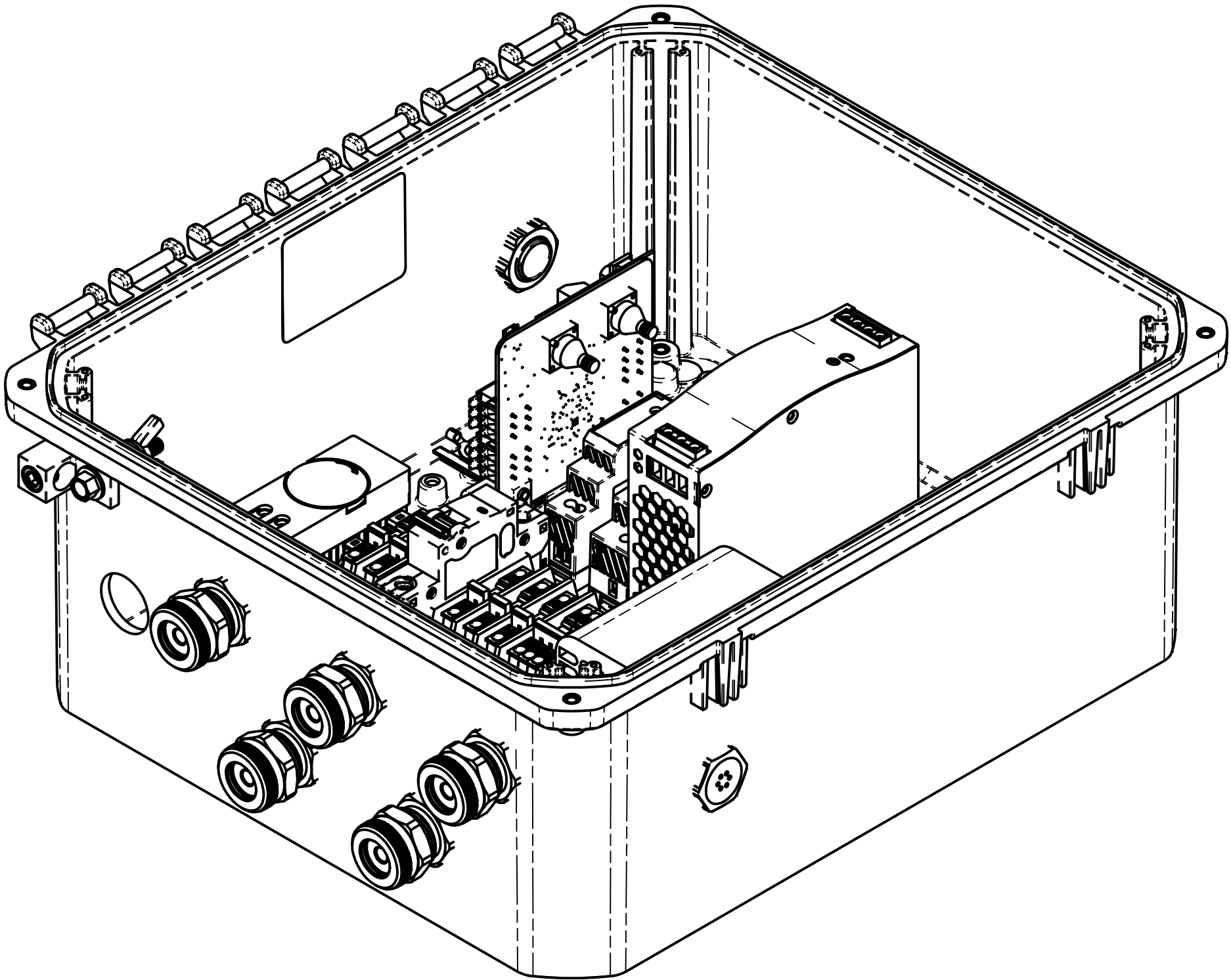
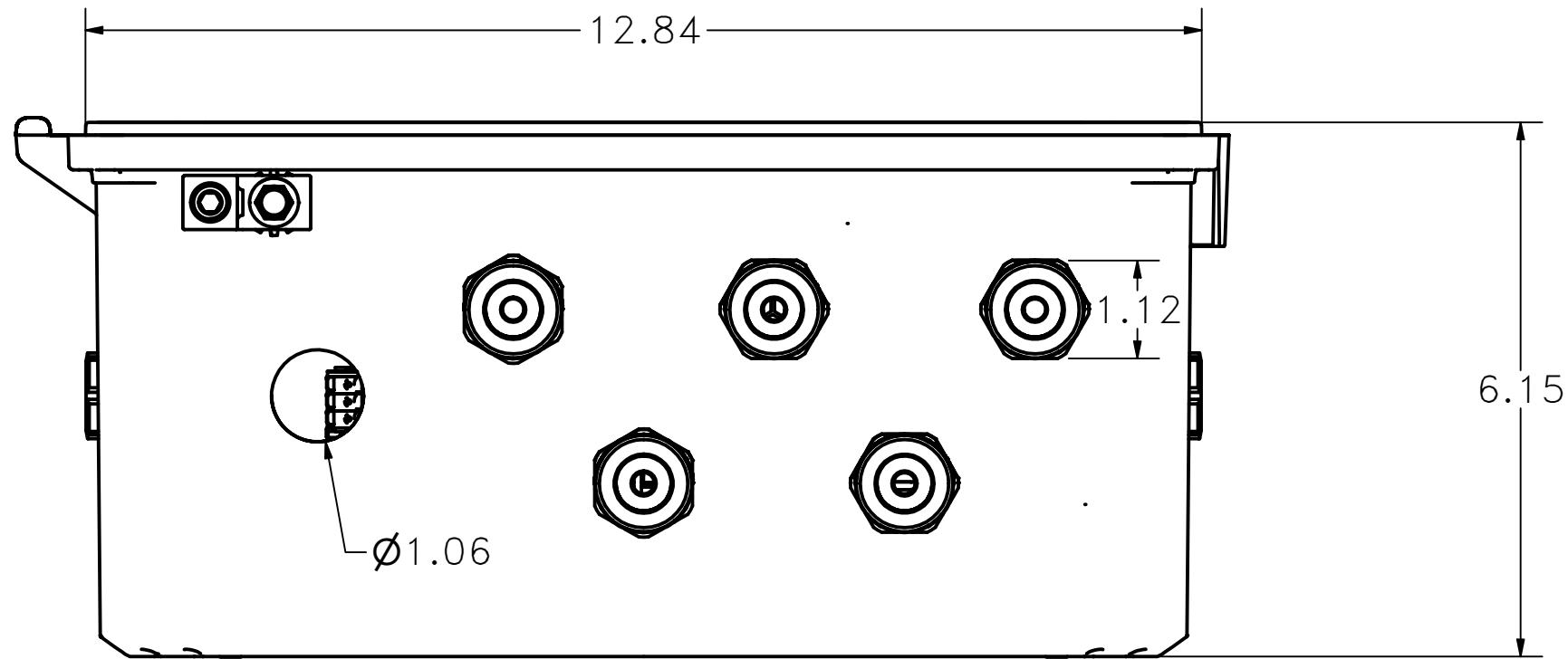
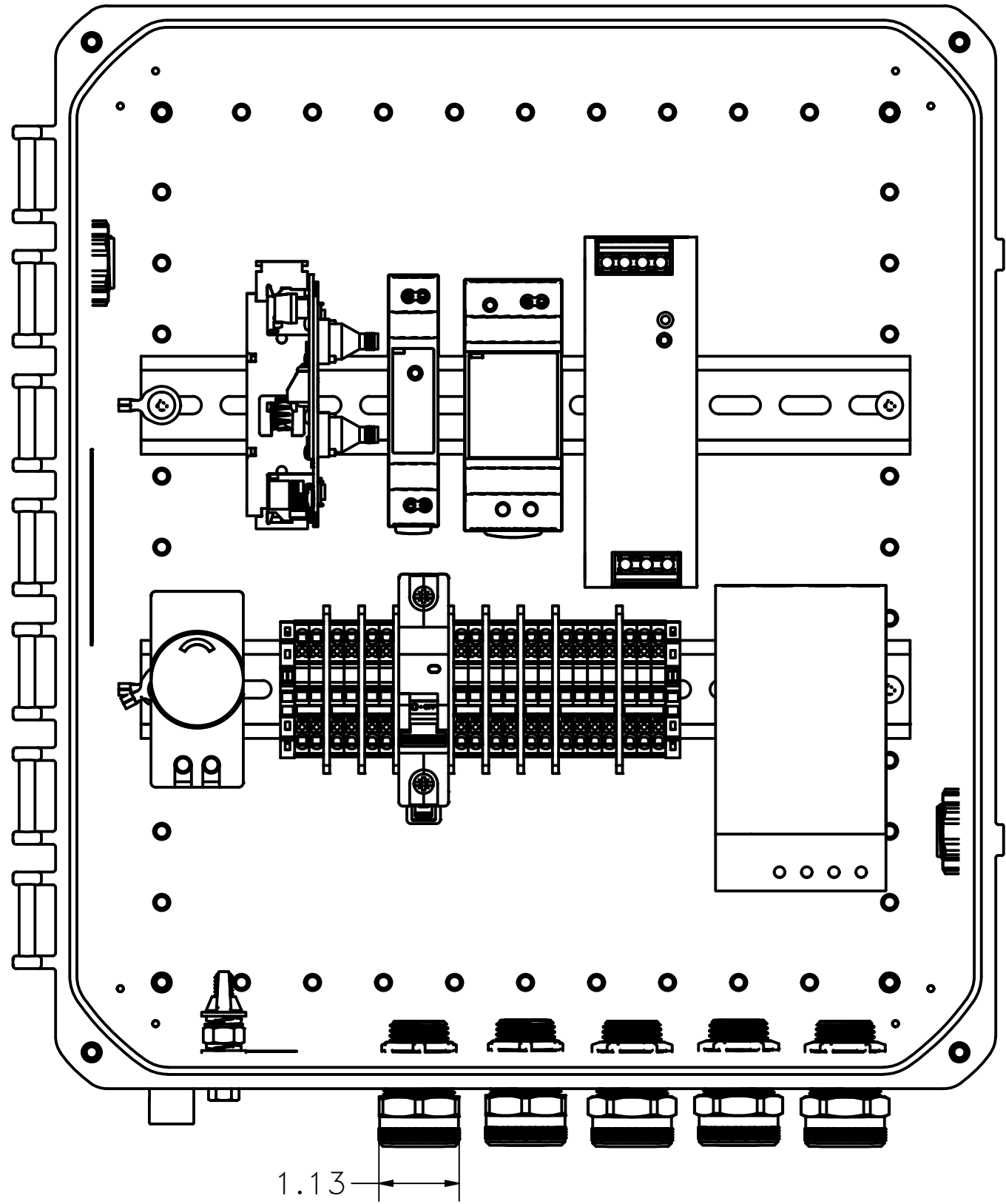
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	82187	S100-43030	-
CODE	SCALE 1 / 2	WIN/A	SH 2 of 8

REVISION HISTORY				
REV	ZONE	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1 FOR REVISIONS		



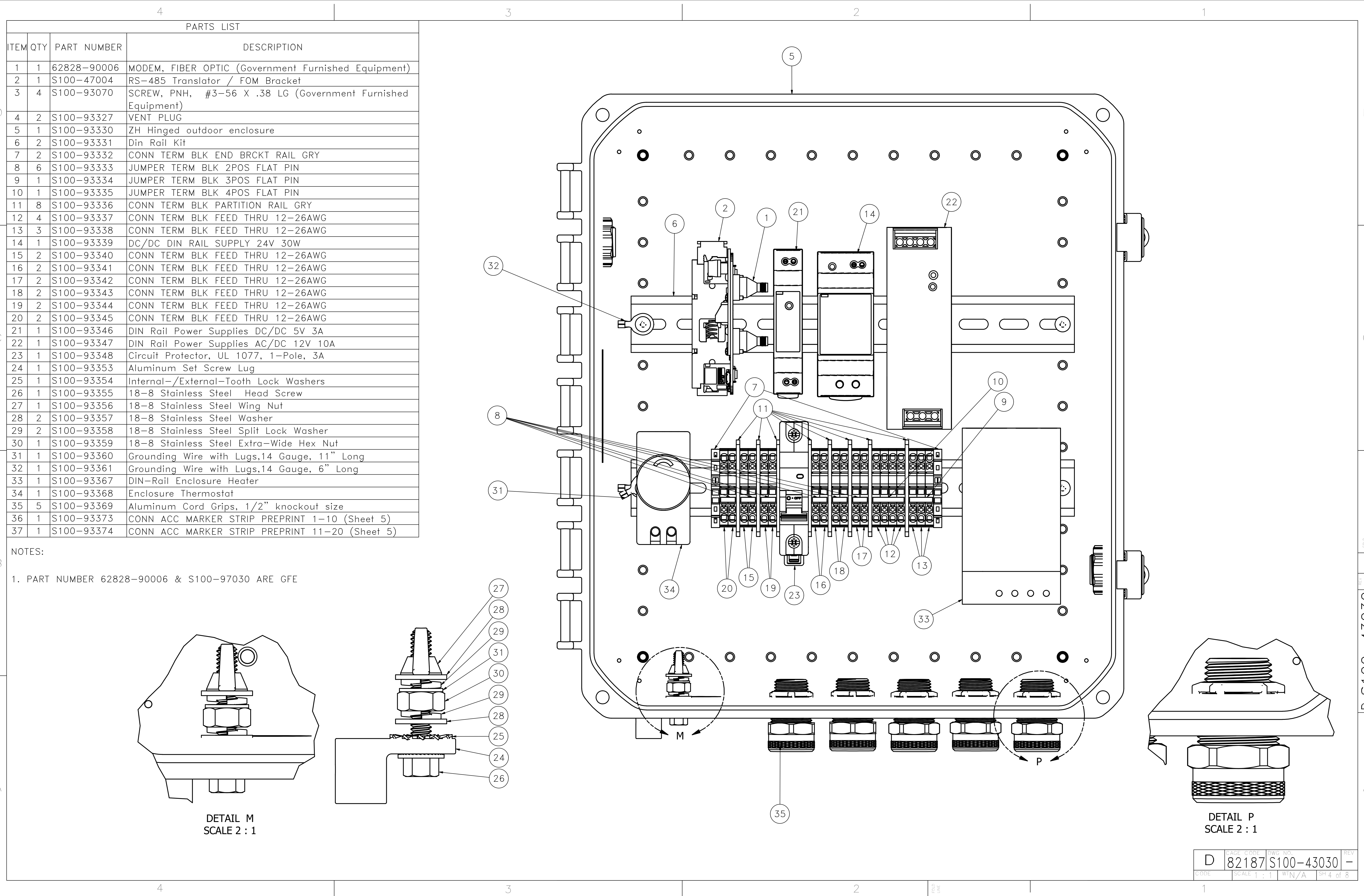
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CODE	SCALE 1 / 2	WIN/A	SH 3 of 8

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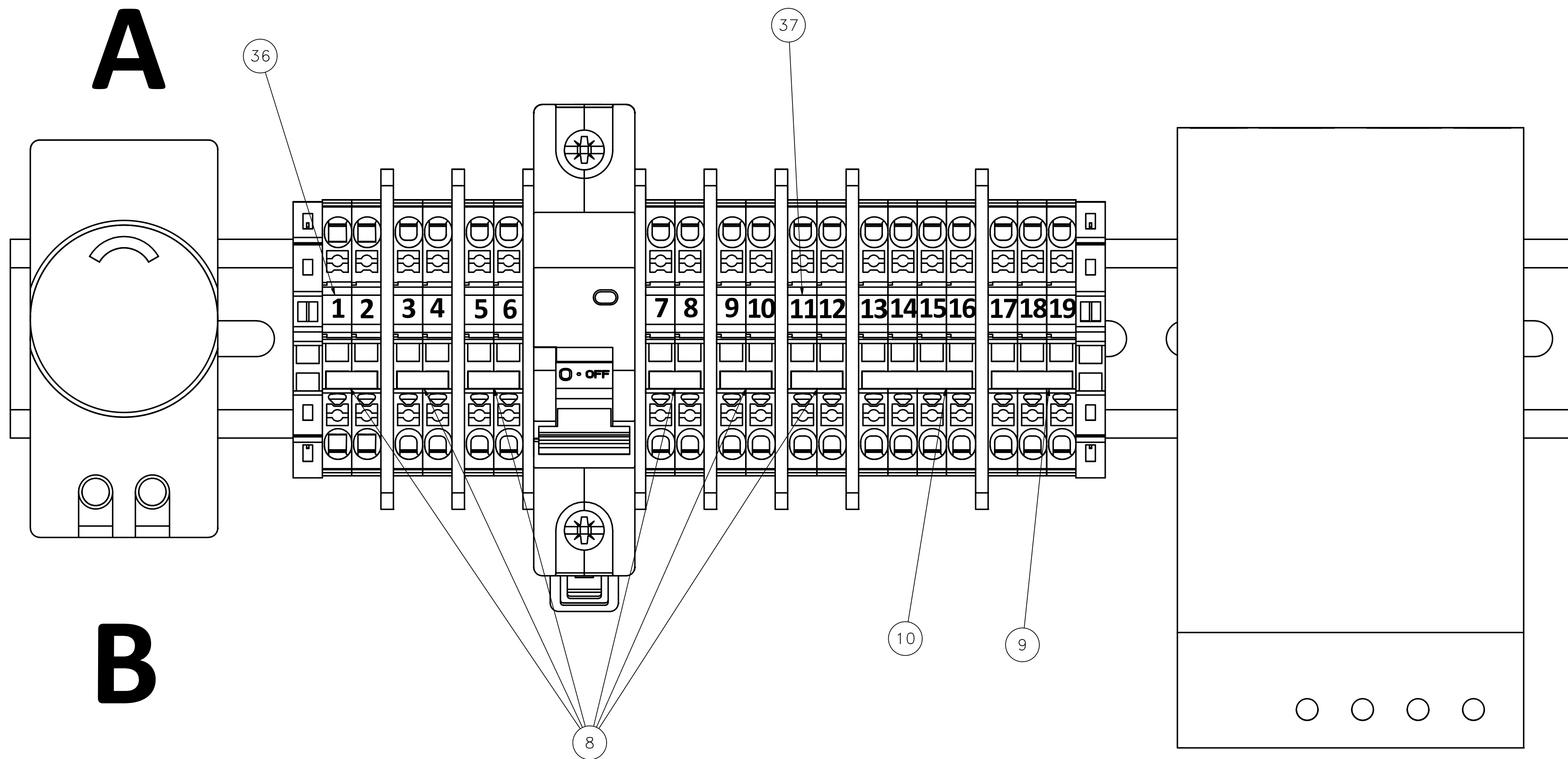
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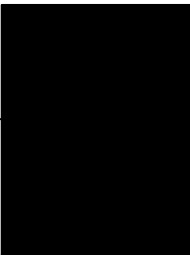
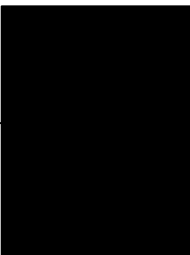
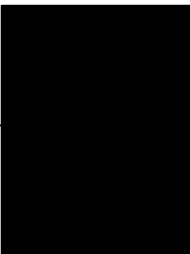
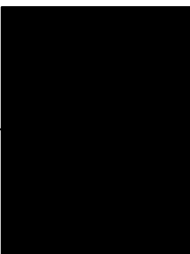

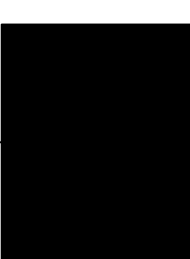
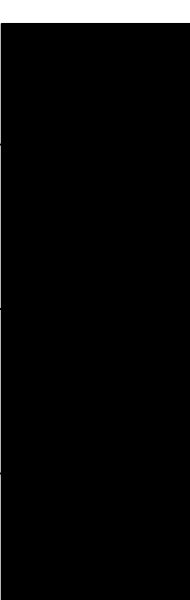
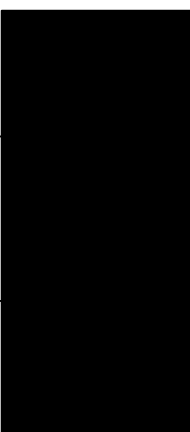
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PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
8	6	S100-93333	JUMPER TERM BLK 2POS FLAT PIN
9	1	S100-93334	JUMPER TERM BLK 3POS FLAT PIN
10	1	S100-93335	JUMPER TERM BLK 4POS FLAT PIN
36	1	S100-93373	CONN ACC MARKER STRIP PREPRINT 1-10 (Sheet 5)
37	1	S100-93374	CONN ACC MARKER STRIP PREPRINT 11-20 (Sheet 5)



JUMPER & FUSE DESIGNATOR CHART	
TB#	JUMPER
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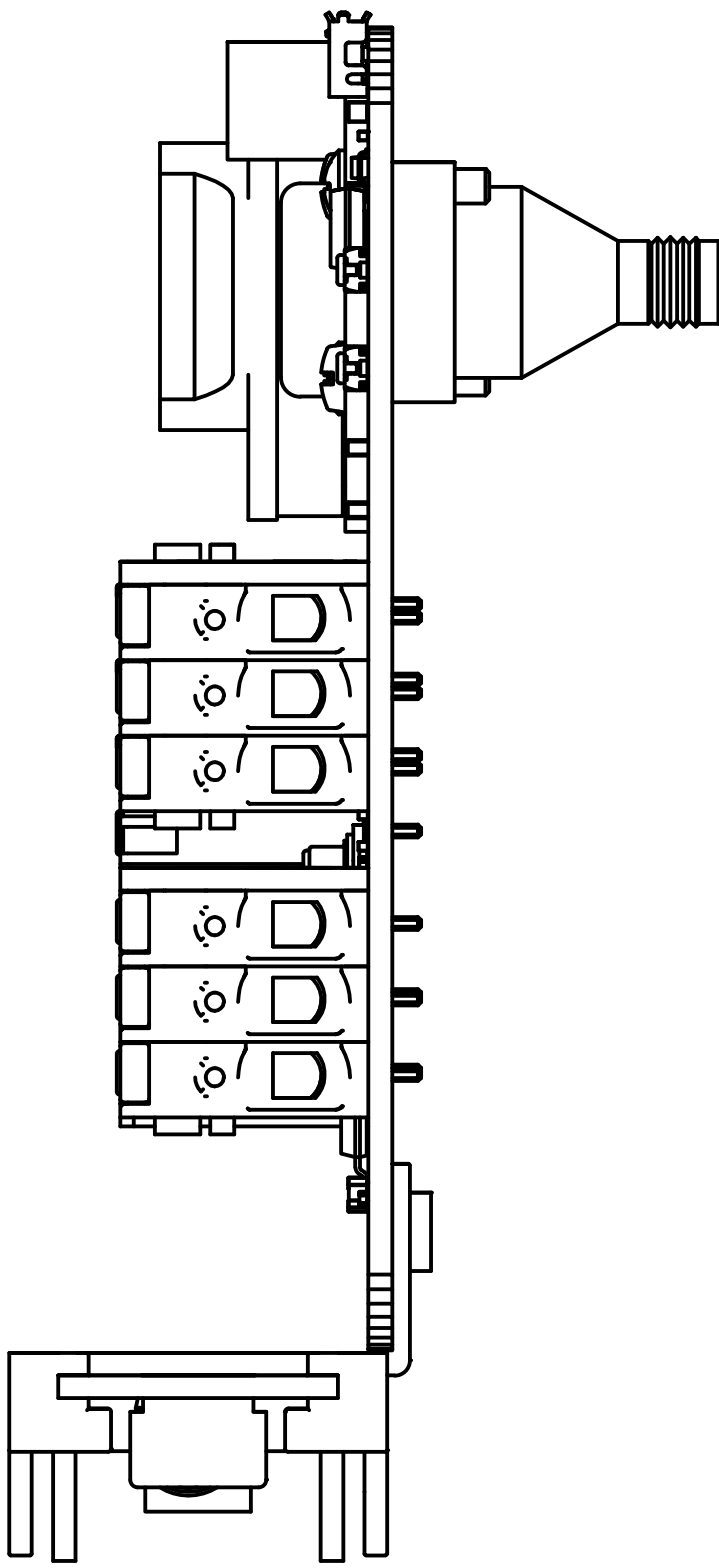
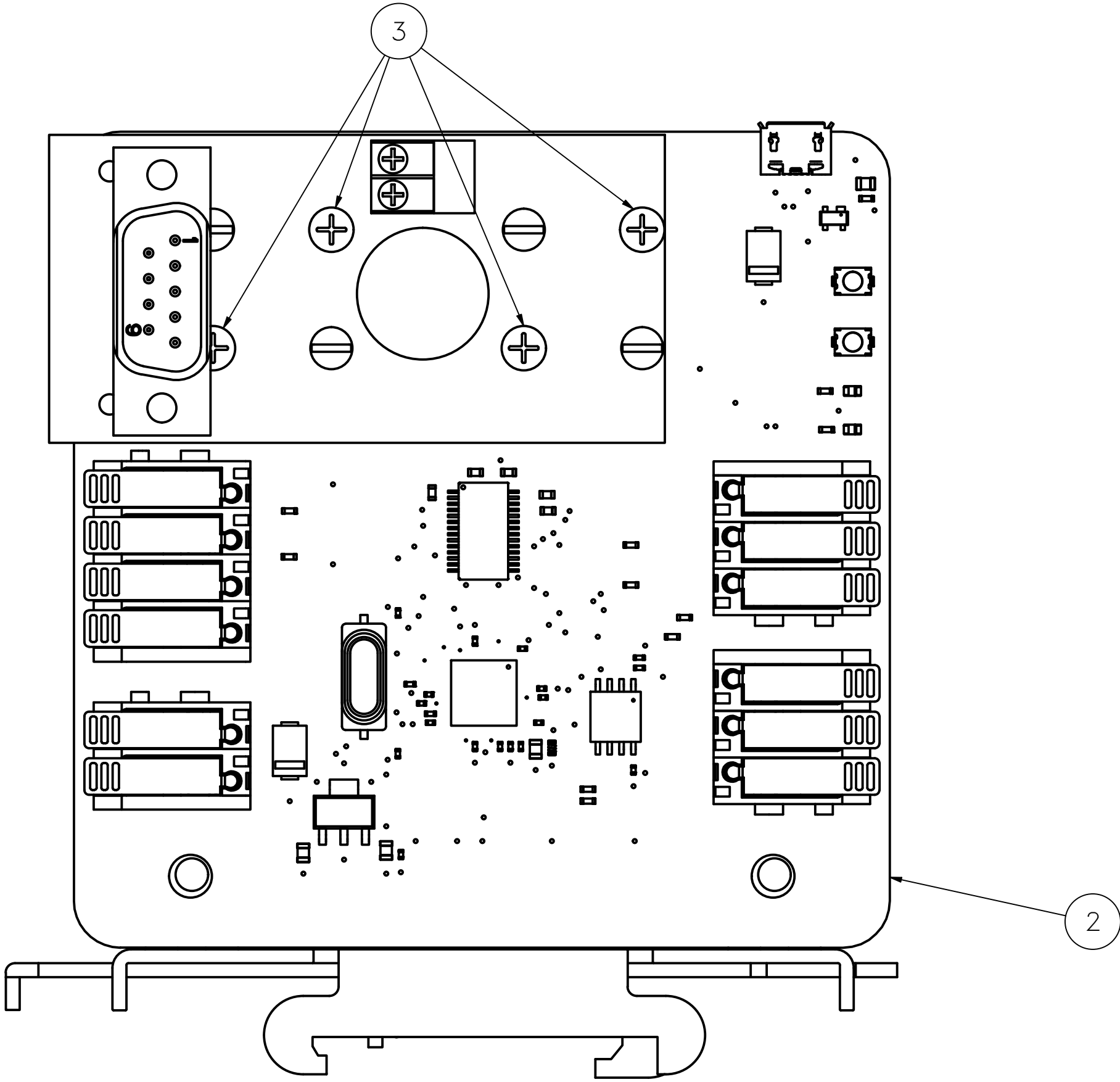
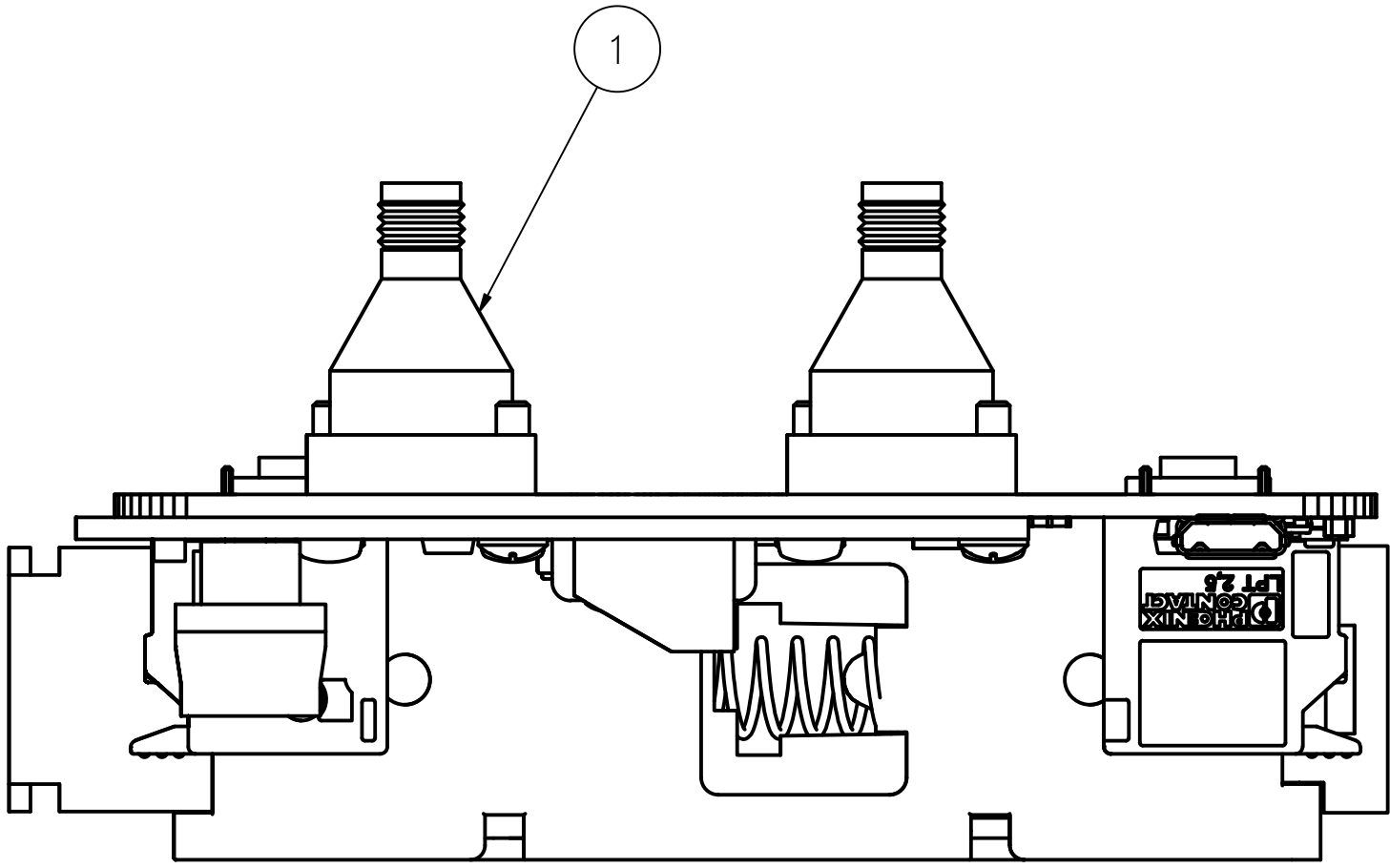
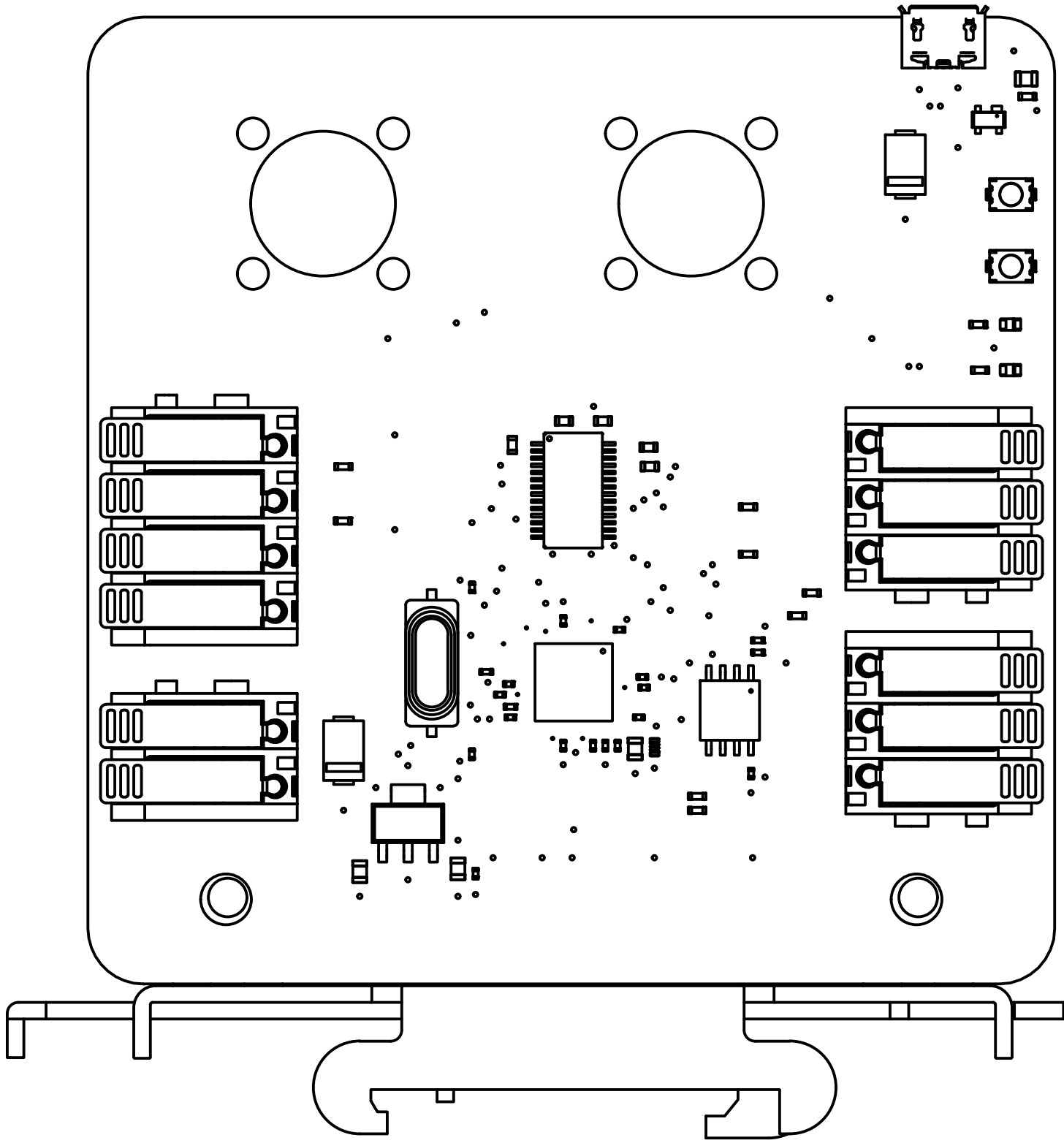
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PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
2	1	S100-47004	RS-485 Translator / FOM Bracket
1	1	62828-90006	MODEM, FIBER OPTIC (Government Furnished Equipment)
3	4	S100-93070	SCREW, PNH, #3-56 X .38 LG (Government Furnished Equipment)
36	1	S100-93373	CONN ACC MARKER STRIP PREPRINT 1-10 (Sheet 5)
37	1	S100-93374	CONN ACC MARKER STRIP PREPRINT 11-20 (Sheet 5)

NOTES:

1. PART NUMBER 62828-90006 & S100-97030 ARE GFE



NOTES:

- 1. USE HARNESS S100-45015 FOR TR1 AND DB9 CONNECTION
- 2. USE WL-S100-45016 FOR ALL WIRES CONNECTION AND

LABELS

