

## Data Surge Protector SPD ALPU Outdoor Gigabit Ethernet/PoE+ Shielded RJ45 GDT CE Compliant, EN/IEC 60950-1, UL 497B

### ALPU-L130 ALPU Lite



#### Features

- UL 497B, EN/IEC60950-1
- Models for all Common Ethernet/PoE Protocols
- Shielded RJ-45 or Punch Down Block Wiring
- Pole or Wall Mount

#### Applications

- Gigabit Ethernet/PoE+ Networks
- Telecommunications Base Stations
- WISP/ISP
- IT & Data Centers
- Point-to-Point Links
- Control Lines and Sense Loops
- Oil & Gas

#### Description

Data surge protector (also known as SPD or lightning protector) ALPU-L130 from Transtector is an outdoor style SPD that utilizes state of the art GDT technology to protect critical equipment in Gigabit Ethernet/PoE+ protocol data networks while remaining transparent to data throughput. This surge protector provides effective protection against electrical transient surges that are generated both by external lightning events and by internal switching events and supports long-term system reliability by absorbing high amounts of transient energy while maintaining a very low clamping voltage. Transtector Data Signal surge protectors are available in stock with same day shipping.

#### Electrical Specifications

| Description                   | Minimum | Typical                      | Maximum | Units |
|-------------------------------|---------|------------------------------|---------|-------|
| Connectors                    |         | Shielded RJ45                |         |       |
| Compatible Cables             |         | Cat5/5e UTP/STP, Cat6/6A STP |         |       |
| Data Protocols                |         | Gigabit Ethernet/PoE+        |         |       |
| Data Rate                     |         |                              | 1,000   | Mb/s  |
| Characteristic Impedance      |         |                              | 100     | Ohms  |
| Power over Ethernet Protocols |         | PoE+                         |         |       |
| Vdc Rating (Data)             |         | 48                           | 60      | Vdc   |
| PoE Power                     |         |                              | 51      | W     |
| PoE Current Per Pin           |         |                              | 600     | mA    |

#### Surge Protection Specification

| Description                 | Minimum | Typical                    | Maximum | Units |
|-----------------------------|---------|----------------------------|---------|-------|
| Surge Protection Technology |         | GDT                        |         |       |
| Protected Pins              |         | [1,2], [3,6], [4,5], [7,8] |         |       |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Data Surge Protector SPD ALPU Outdoor Gigabit Ethernet/PoE+ Shielded RJ45 GDT CE Compliant, EN/IEC 60950-1, UL 497B ALPU-L130](#)

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|                            |          |  |    |
|----------------------------|----------|--|----|
| Protection Modes           | L-G, S-G |  |    |
| 8/20 $\mu$ s Surge Current |          |  |    |
| L-G                        | 1        |  | kA |
| S-G                        | 20       |  | kA |
| Response Time              | 75       |  | ns |

### Mechanical Specifications

#### Size

|        |        |            |
|--------|--------|------------|
| Height | 4.5 in | [114.3 mm] |
| Width  | 4 in   | [101.6 mm] |
| Depth  | 1.7 in | [43.18 mm] |
| Weight | 1 lbs  | [453.59 g] |

### Environmental Specifications

|                       |                  |
|-----------------------|------------------|
| Operating Temperature | -40 to +65 deg C |
| Storage Temperature   | -40 to +75 deg C |

|                                 |      |
|---------------------------------|------|
| Environmental Protection Rating | IP23 |
|---------------------------------|------|

### Installation

|                       |                             |
|-----------------------|-----------------------------|
| Mount Type            | Pole/Wall                   |
| Installation Hardware | Combination Drive Screw     |
| Grounding             | #10 - #12 AWG Ring Terminal |

### Compliance Certifications

|                |                           |
|----------------|---------------------------|
| RoHS Compliant | Yes                       |
| CE Compliant   | Yes                       |
| UL Compliant   | Yes                       |
| Certifications | UL 497B<br>EN/IEC 60950-1 |

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Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

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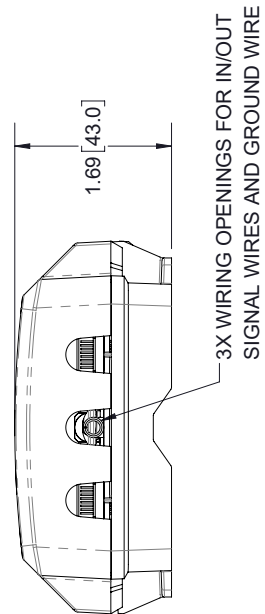
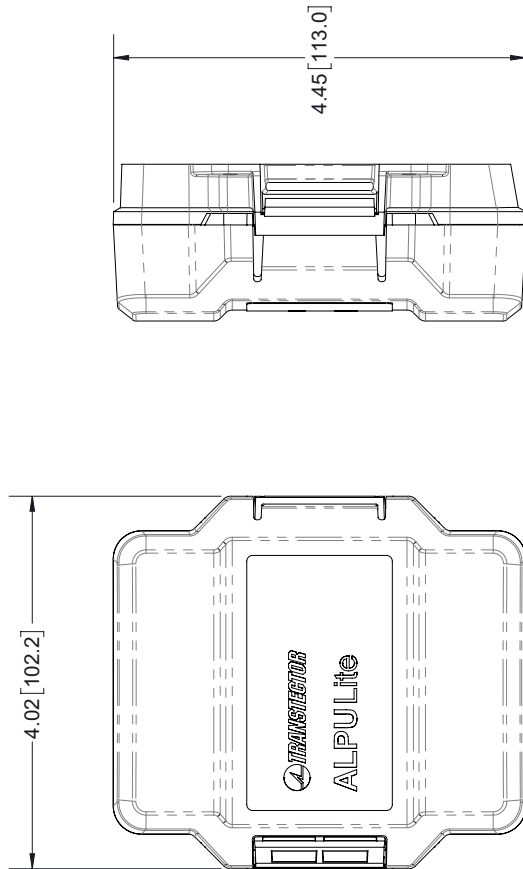
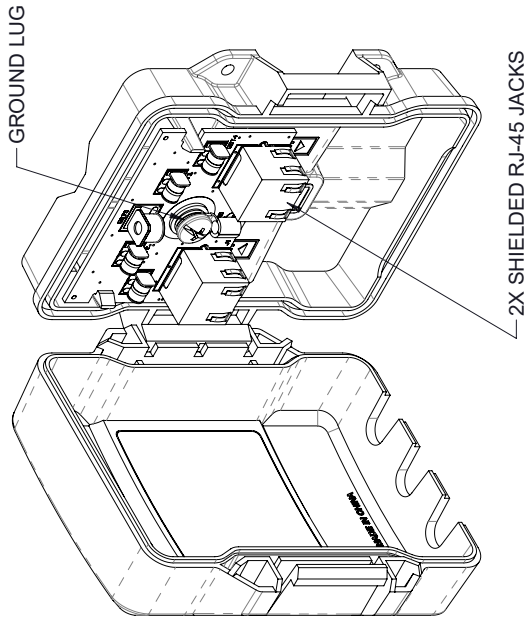
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ALPU-L130 CAD Drawing

| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV.      | DESCRIPTION     | DATE    | APPROVED |
| A         | INITIAL RELEASE | 1/17/19 | DWR      |



|  |                  |
|--|------------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS |                  |
| TOLERANCES:  |                  |
| X±.2 [5.08]  | FRACTIONS ±.1032 |
| .XX±.01 [.25]  | ANGLES ±1°       |
| XXX±.005 [.13]   |                  |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.   |                  |
| THIRD-ANGLE PROJECTION   |                  |

|   |              |  |       |
|---|--------------|--|-------|
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| SIZE A<br>CAGE 30992  | DRAWN BY HMB | PART NUMBER ALPU-L130  | REV A |

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