

MAXIMUM CHARACTERISTICS

Application:

The Transtector ALPU-POE-60V Broadband Communications Protectors is designed to protect data networks with combinations of high speed data protocols. The protection circuits utilize silicon avalanche diode technology. The unit is has a cast aluminum enclosure. The enclosure is an outdoor qualified NEMA 3R type enclosure with easy mounting flanges. The ALPU-POE-60V features RJ-45 protection circuits for the Ethernet data pairs pins (1,2) (3,6) and DC un-polarized power pins (4,5) (7,8) for any combination of circuits up to 60Vdc MCOV. The unit is intended to be wall mounted and an optional bracket is available to allow a wide range of pole mount applications. Design incorporates a dedicated ground stud that must be bonded to the nearest grounding system (or Master Ground bar) for proper surge protection function. The system wiring is installed with RJ-45 type connectors that can feed directly into the chassis without having to cut or splice or route through strain relief holes. The enclosure includes a built in cable retention feature for improved cable management. The enclosure has screw down clamps for maximum cable retention. In the unlikely event of surge protection self sacrifice, the individual protection cards will fail short to disrupt communication. The protection cards can be replaced for ease of service.

Electrical Performance:

Connector Style: RJ-45 Cat5e shielded 100ohm
 Ethernet Protected Pins: (1,2) and (3,6) pass through
 Data Rate: 100Mb/s
 Nominal Operating Voltage: Up to 48 Vdc
 Maximum Continuous Operating Voltage: 60Vdcpeak
 Impedance: 85 to 115ohms
 Frame Transmission: 100% Transmission @ 100Mb/s
 Attenuation: < -1dB @ 16MHz
 Surge Suppression (per GR-1089): <75Vpeak @ 100A 10/1000ms
 DC Power Protected Pins: (4,5) and (7,8) pass through
 Nominal Operating Voltage: 48Vdcpeak
 Maximum Continuous Operating Voltage: 60Vdcpeak
 Surge Suppression (per GR-1089): <75Vpeak @ 100A 10/1000ms
 Max. Line Current: 1 Amp
 Peak Surge Current: 100A @10/1000µS
 Response Time: <5nS
 Capacitance: <50pF

Environmental:

Operating/Storage Temperature: -40°C to +80°C
 Relative Humidity: 99% (non-condensing)

Mechanical:

Weight: 0.8lbs (0.36kg)
 Product Material: Die-Cast Aluminum

Applicable Industry Standards:

Bonding and Grounding: NEC 800.100 and 830.100
 Surge Suppression: GR-1089-2006
 Power over Ethernet Protocol: IEEE 802.3af

Approvals:

CE Mark Compliant
 RoHS Compliant
 IEC/ANSI/UL/CSA 60950 Compliant
 Hazardous Location Certifications: ETL Class I Div 2, Class I Zone 2, ATEX, IECEx (See Figure 1)

REVISIONS				
REV.	DESCRIPTION	ECN	DATE	APPROVED
D	REFER TO ECN	13071	03/25/15	KAD

ALPU 10/100 PoE **1101-933**

Rated: 60 Vdc, 4 A (1 A per line), IP54

Class I Division 2 Groups A,B,C,D T6

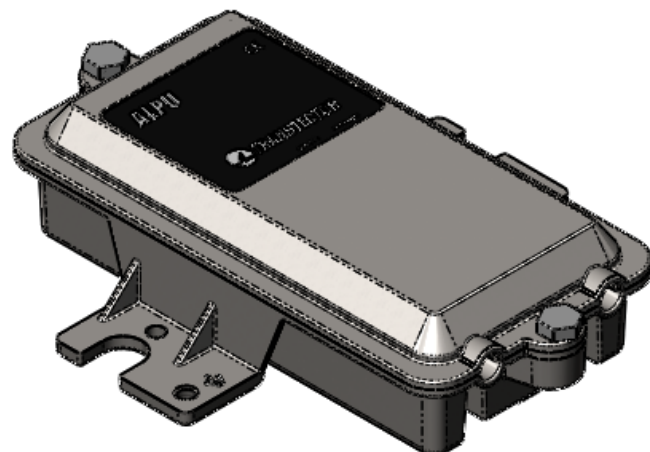
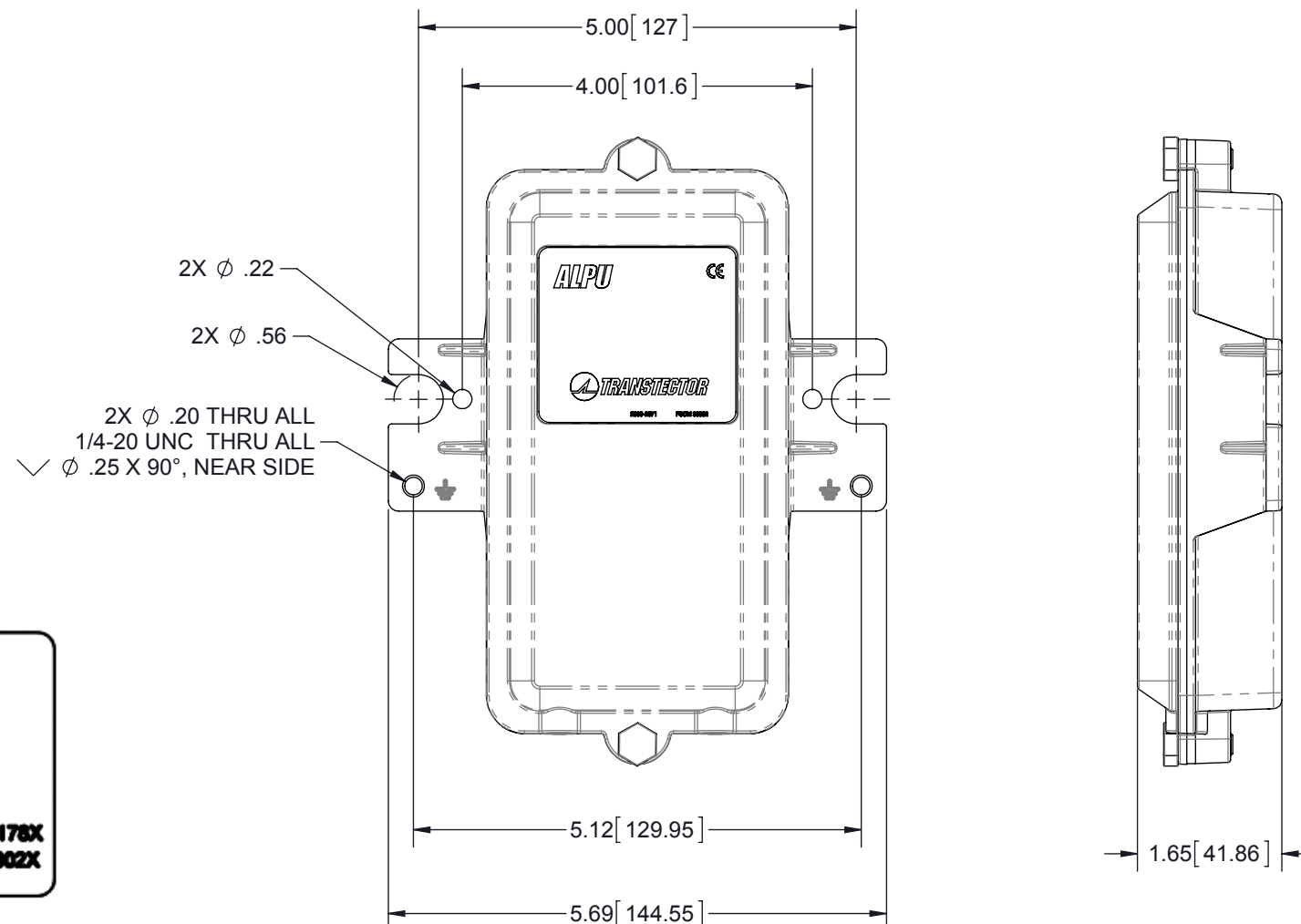
Class I Zone 2 AEx nA IIC T6 Gc

Class I Zone 2 Ex nA IIC T6 Gc

CE **II 3 G Ex nA IIC T6 Gc** **ITS15ATEX46178X**

-40°C ≤ Tamb ≤ +70°C **IECEx ETL 15.0002X**

Figure 1: Hazardous Locations



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	ENG APPD	CAP	DATE	4/2/13						
	PRODUCT MGR	MLH	DATE	6/24/13						
	MARKETING APPD	LJ	DATE	6/27/13						
TOLERANCES: FRACTIONS=± 1/32 .XX=± .01 ANGLES=± 1° .XXX=± .005	MATERIAL	PROJECT NO.			TITLE					
THIRD-ANGLE PROJECTION					ALPU-POE-60-M					
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					SIZE	CAGE	PART NUMBER	REV		
					B	30992	1101-933	D		
					SCALE	PROD CAT	DOCUMENT NAME	SHEET	OF	
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