MAXIMUM CHARACTERISTICS

Application:

Application.

12/24/48 Volt DC Protection. The DC Defender provides robust 5kA lightning current withstand for sensitive 48VDC powered equipment. The unit features silicon avalanche diode technology to provide the optimum low voltage protection for DC power plant, tower top radios, low noise amplifiers (LNA) and tower mounted amplifiers (TMA) applications. The unit is encased in a rugged metal enclosure for outdoor cabinet and pole mounting installations.

Electrical Performance:
Protection Modes: DC + to DC -, DC + to Ground, DC - to Ground
Nominal Operating Voltage Un: Up to 48 Vdc
Maximum Continuous Operating Voltage Uc: 60 Vdc
Maximum Line Current: 15 Amps

Nominal Discharge Surge Current (8/20) In: 5 kA (8/20 μs) per protection mode Protection Level @ 500 A, 8/20 μs: 97 Vpk Protection Level Up @ In: 250 Vpk

Response Time: <5 nano-seconds

Leakage Current at U_n: <30 μA
Failure Mode: Power disconnect from radio if suppression fails

Approvals:

RoHS compliant, CE compliant, UL 497b Listed.

IEC/ANSI/UL/CSA 60950 Compliant

Hazardous Location Certifications: ETL Class I Div 2, Class I Zone 2, ATEX, IECEx (See Figure 1)

DC Power Input/Output Connections: Compression Lugs
Wire Range: #14 to #10 AWG (Sum diameter of dual conductors not to exceed Ø0.300")

Enclosure Rating: NEMA 3R
Dimensions: 7.15" [181mm] x 5.69" [145mm] x 1.65" [42mm]
Weight: <5 lbs [2.27 kg]

Environmental:

Operating Temperature: -40°C to +85°C Relative Humidity: <95% (non-condensing)

Mounting: Surface/wall or on a pole with kit **Pole Mount Kit:** 1000-1164 (not included)

ALPU DC Defender

1101-1110

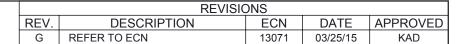
Ratings: 60 Vdc, 15 A, IP54 Class I Division 2 Groups A.B.C.D T4 Class I Zone 2 AEx nA IIC T4 Gc Class | Zone 2 Ex nA NC T4 Gc

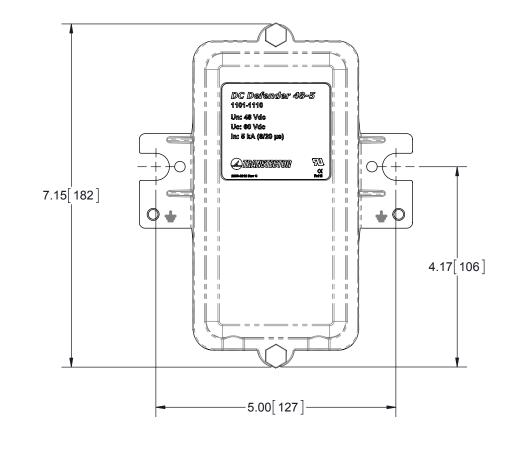
(€ (a) II 3 G Ex nA IIC T4 -40°C ≤ Tamb ≤ +65°C

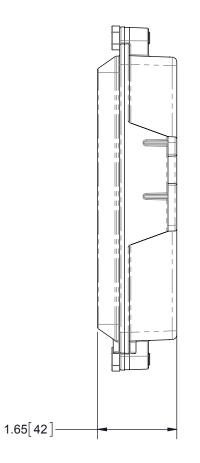
ITS15ATEX48178X **IECEx ETL 15.0002X**

Figure 1: Hazardous Locations









ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

	LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES:	DRAWN DATE TOT 5/18/12 ENG APPD KAD 05/21/12 PRODUCT MGR		9	TRANS	TECTOR	
	FRACTIONS=± 1/32 .XX=± .01 ANGLES=± 1 ° .XXX=± .005 MATERIAL	MLH 6/20/12 MARKETING APPD LJ 6/20/12	TITLE		DC DEFE		
		PROJECT NO. DD89447	48-5 CUSTOMER SPECIFICATION				
	THIRD-ANGLE PROJECTION	NOTICE: THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSTECTOR SYSTEMS. ALL	B	30992	PART NUMBER	1101-1110	G
D.		RIGHTS RESERVED.	SCALE	1:2 PROD CAT	DCT DOCUMENT NAM	1101-1110-C SHEET	1 ^{OF} 1

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