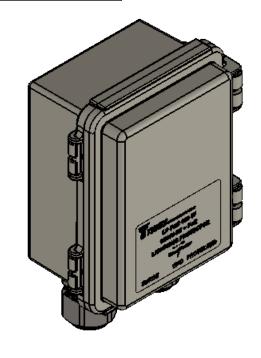
### NOTICE OF PROPRIETARY RIGHTS

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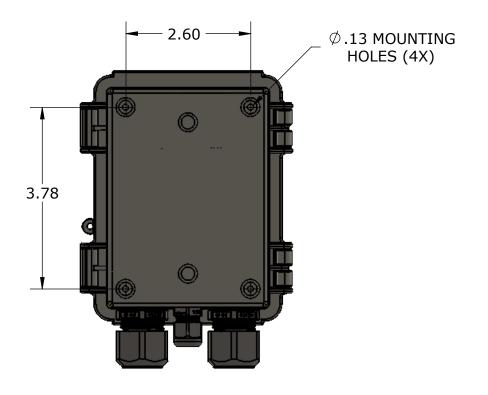
REV.	DESCRIPTION	DFTM	DATE	APPD	DATE
Α	RELEASED PER CDC				



MATERIAL:

POLY-CARBONATE & NYLON

# 4.40 (NOM) 3.92 5.24 .89 (NOM)



# **SPECIFICATIONS (PRELIMINARY)**

**APPLICATION:** 100 Base-T, PANEL MOUNT, OUTDOOR.

# **ELECTRICAL:**

CONNECTOR: RJ45 JACK, SHIELDED.
DATA RATE: 100 Mbps, 100 Base-T PER IEEE 802.3a.
DATA TEST METHOD: EXTENDED RFC2544 TESTS. PROTECTED PIN PAIRS: (1-2), (3-6), (4-5), (7-8). PROTECTED PINS TO CHASŚIŚ GŔOUND: ALĹ PINS. DATA PIN PAIRS: (1-2), (3-6). DC PIN PAIRS: LINE (4-5), RTN (7-8). DC LINE VOLTAGE: +48VDC NOMINAL, +60VDC MAX.
DC LINE CURRENT: 500mA OPERATING PER LINE-RTN PAIR. 1100mA NOMINAL FAULT MAXIMUM DISCHARGE CURRENT:

ONE TIME DISCHARGE:

300A, 10/1000uS, PER BELLCORE 1089.

5kA 8/20uS PER IEC 61000-4-5.

REPETITIVE DISCHARGE (10 CYCLES MAXIMUM)

100A, 10/1000uS, PER BELLCORE 1089. 2kA 8/20uS PER IEC 61000-4-5.

SURGE LET THROUGH VOLTAGE:

DATA: 20V PEAK @ 300A, 10/1000uS. 20V PEAK @ 5kA, 8/20uS DC: 90V PEAK @ 300A, 10/1000uS 90V PEAK @ 5kA, 8/20uS

IMPEDANCE: 100 OHMS NOMINAL.

## **MECHANICAL:**

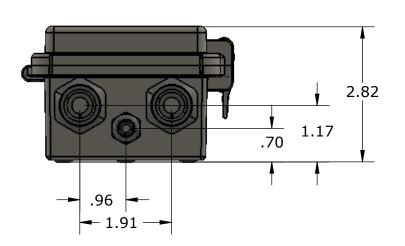
WEIGHT: 7.6oz.

MOUNTING: CHASSIS OR PANEL.

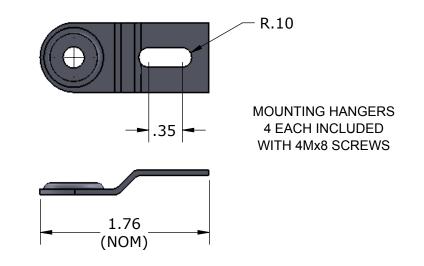
# **ENVIRONMENTAL:**

**IP68 RATING** 

OPERATING TEMPERATURE: -40 TO +65 deg-C RELATIVE HUMIDITY: 0 TO 90% NON- CONDENSING.



USED ON ASSY.



IDENT. 60999 | SCALE:

Α

SHEET 1 OF 2

DRAFTSMAN									
CHECKER		TIMES MICROWAVE SYSTEMS							
APPROVED			TITLI						
UNLESS OTHERWISE SPECIFIED				⊑.					
ALL DIMENSIONS ARE IN INCHES MACHINED SURFACES FINISH 32 RMS MAX. REMOVE ALL BURRS .005 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R.				SURGE PROTECTOR -PoE, 10/100 base-T					
.XX ± ANGLES		005 1/32	DWG. SIZE	В	DRWG. NO.	LP-PAE-10	0-W	R	
DC	NOT SCALE DRAWING	G	CODE IDENT.	68999	SCALE:	1:1	SHEET 1	OF	

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#### **INSTALLATION INSTRUCTIONS**

#### WARNING

THIS LP DEVICE IS DESIGNED TO BE USED WITH SHIELDED CAT5/6
ETHERNET CABLE TERMINATED WITH SHIELDED RJ45 CONNECTORS AND
WHEREBY THE CABLE SHIELD IS BONDED TO THE RJ45 CONNECTOR SHIELD.

- 1) IF USING MOUNTING HANGERS PROVIDED, INSTALL THE 4 HANGERS ONTO THE BACK OF THE LP ENCLOSURE USING THE 4 M4X8 SCREWS PROVIDED.
- 2) IF THE UNIT IS TO BE MOUNTED ONTO A FLAT PANEL, ROTATE THE POSITION THEMOUNTING HANGERS IN ACCORDANCE WITH THE DESIRED MOUNTING FOOTPRINT. MOUNT THE UNIT TO THE PANEL USING APPROPRIATE SIZED FASTENERS.

IF MOUNTING ONTO A POLE, THEN TIE THE UNIT TO THE POLE USING TWO APPROPRIATE SIZED STEEL TIES, ONE TIE PASSING THROUGH TWO OPPOSING HANGERS.

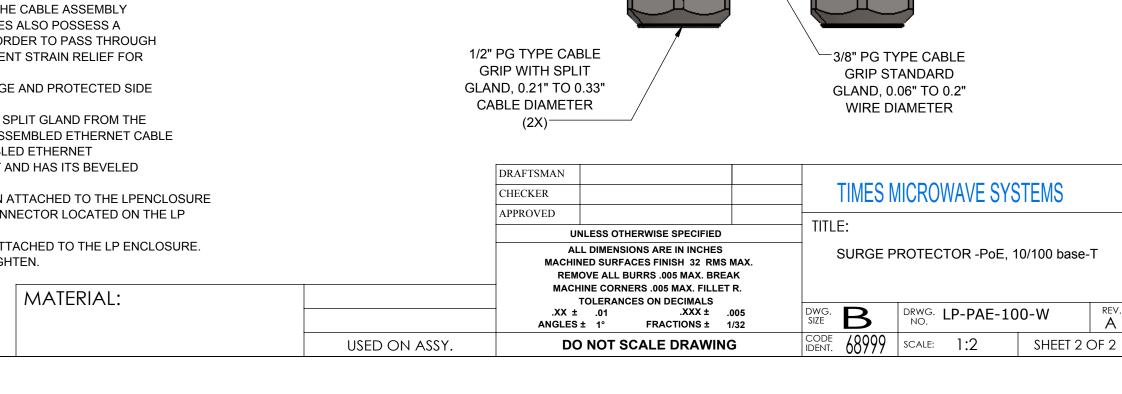
- 3) LOOSEN THE 1/4" CABLE GRIP AND PASS A GROUNDING WIRE (10 TO 8AWG) THROUGH THE GRIP. TERMINAL THE GROUND WIRE WITH A #8 RING TERMINAL SIZED FOR THE GROUND WIRE. REMOVE THE TOP NUT FROM THE LP PCB GROUND STUD AND INSTALL THE GROUND WIRE ONTO THE STUD, REPLACING THE NUT AND TIGHTENING.
- 4) SECURE THE FREE END OF THE GROUND WIRE TO AN EXTERNAL SYSTEM GROUND. THE PREFERRED LENGTH OF THE GROUND WIRE IS 12" OR LESS.
- 5) (NOTE: IF USING PRE-ASSEMBLED ETHERNET CABLE ASSEMBLIES, THE SPLIT GLANDS USED IN THE LP CABLE GRIPS WILL FACILITATE PASSING THE CABLE ASSEMBLY THROUGH THE GRIPS. HOWEVER, IF THE CABLE ASSEMBLES ALSO POSSESS A STRAIN RELIEF BOOT, THAT BOOT MUST BE REMOVED IN ORDER TO PASS THROUGH THE CABLE GRIP. THE GRIP ITSELF WILL PROVIDE SUFFICIENT STRAIN RELIEF FOR THE CABLE ASSEMBLY.)

THE FOLLOWING PROCEDURE APPLIES TO BOTH THE SURGE AND PROTECTED SIDE ETHERNET CABLE INSTALLATION.

REMOVE THE CABLE GRIP OUTER NUT THEN REMOVE THE SPLIT GLAND FROM THE LP CABLE GRIP. PLACE CABLE GRIP NUT ONTO THE PRE-ASSEMBLED ETHERNET CABLE THEN PLACE THE SPLIT GLAND AROUND THE PRE-ASSEMBLED ETHERNET CABLE MAKING SURE THE GLAND IS IN FRONT OF THE NUT AND HAS ITS BEVELED END POINTING AWAY FROM THE NUT.

PASS THE ETHERNET CABLE THROUGH THE GRIP SECTION ATTACHED TO THE LPENCLOSURE AND CONNECT THE CABLE TO THE APPROPRIATE RJ45 CONNECTOR LOCATED ON THE LP

SLIDE THE GLAND BACK INTO THE CABLE GRIP SECTION ATTACHED TO THE LP ENCLOSURE. SLIDE THE GRIP NUT BACK ONTO THE CABLE GRIP AND TIGHTEN.



**SURGE** 

SIDE '

PROTECTED

SIDE

M4 GND

STUD