

Model 13118-016 Modular TVP Barrier Assembly

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General Information

Electrical and electronic systems and networks are subjected to disturbances from external sources of electrical energy. These sources include electric power circuits and natural phenomena, such as lightning and low energy static influences. Such disturbances may damage equipment and/or create hazards to users and maintenance personnel.

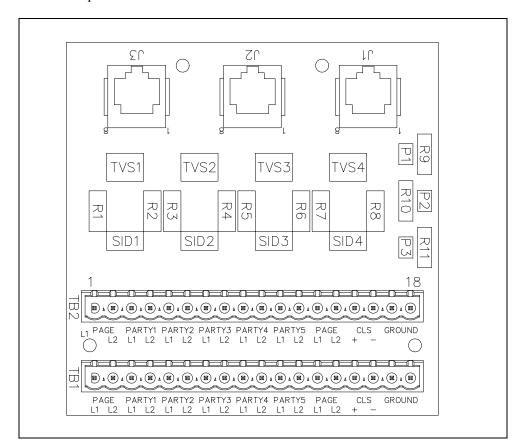


Figure 1. Model 13118-016 TVP Barrier Assembly

Applications

The Model 13118-016 Transient Voltage Protection (TVP) Barrier Assembly is designed to prevent energy induced on the Page/Party® system cable from damaging the Page/Party® Interface (PPI) printed circuit board assembly (PCBA). This assembly also allows party lines 3, 4 and 5 of the local zone to connect with stations in other zones on the selected party line.

Connections

Table 1. Modular Terminal Blocks (TB1 & TB2) Field Wiring

Pin No.	Function	Remarks		
1	Page Line – L1	The red/blue wire of the page pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
2	Page Line – L2	The blue/red wire of the page pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
3	Party Line 1 – L1	The red wire of the party line #1 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
4	Party Line 1 – L2	The tan/red wire of the party line #1 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
5	Party Line 2 – L1	The purple wire of the party line #2 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
6	Party Line 2 – L2	The tan/purple wire of the party line #2 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
7	Party Line 3 – L1	The blue wire of the party line #3 pair contained within the Page/Party® cable is attached to this position of the terminal block.		
8	Party Line 3 – L2	The tan/blue wire of the party line #3 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
9	Party Line 4 – L1	The brown wire of the party line #4 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
10	Party Line 4 – L2	The tan/brown wire of the party line #4 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
11	Party Line 5 – L1	The yellow wire of the party line #5 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
12	Party Line 5 – L2	The tan/yellow wire of the party line #5 pair contained within the Page/Party [®] cable is attached to this position of the terminal block.		
13	Page Line – L1	No field connection (for internal use only)		
14	Page Line – L2	No field connection (for internal use only)		
15	CLS+	The spare orange wire contained within the Page/Party® cable is attached to this position of the terminal block when All-Call control is referenced to ground at field stations.		
16	CLS-	This terminal is used with CLS+ when dry contact All-Call control is employed at field stations via a separate pair of wires.		
17	EGND	Earth ground		
18	EGND	Earth ground		

Installation



Safety Note: If GAI-Tronics Page/Party® cable is used, ensure the ac power conductors are disconnected from any power source during the installation.

- 1. Snap the Modular TVP Barrier assembly onto one of the DIN mounting rails located in the cabinet.
- 2. Connect the appropriate Page/Party[®] cable to modular terminal block TB1 per Table 1 using the mating plug provided. If the Page/Party[®] cable is looped, connect the "return" side of the cable to TB2 per Table 1 using the mating plug provided.
- 3. Attach the appropriate Cat5E cable to the middle RJ45 jack (J2).
- 4. Attach a ground wire to TB1-17 or TB1-18.
- 5. If this module is replacing a damaged module, re-connect (plug-in) any cables to/from other modules at J1 and/or J3.
- 6. Check and/or set positioning of the party line jumper clips P1 through P3 per the following table:

Table 2.

Jumper Clip	Party Line	Installed	Removed
P1	3	Loaded (33-ohm)	Un-loaded
P2	4	Loaded (33-ohm)	Un-loaded
Р3	5	Loaded (33-ohm)	Un-loaded

^{*}Note: Factory default = All jumper clips installed.

Specifications

Mechanical

Reference to Assembly/Model Drawings

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GAI-Tronics 13118-016 Modular TVP Barrier Assembly Drawing 13118-016

Warranty

Equipment. GAI-Tronics warrants for a period of one (1) year from the date of shipment, that any GAI-Tronics equipment supplied hereunder shall be free of defects in material and workmanship, shall comply with the then-current product specifications and product literature, and if applicable, shall be fit for the purpose specified in the agreed-upon quotation or proposal document. If (a) Seller's goods prove to be defective in workmanship and/or material under normal and proper usage, or unfit for the purpose specified and agreed upon, and (b) Buyer's claim is made within the warranty period set forth above, Buyer may return such goods to GAI-Tronics' nearest depot repair facility, freight prepaid, at which time they will be repaired or replaced, at Seller's option, without charge to Buyer. Repair or replacement shall be Buyer's sole and exclusive remedy. The warranty period on any repaired or replacement equipment shall be the greater of the ninety (90) day repair warranty or one (1) year from the date the original equipment was shipped. In no event shall GAI-Tronics warranty obligations with respect to equipment exceed 100% of the total cost of the equipment supplied hereunder. Buyer may also be entitled to the manufacturer's warranty on any third-party goods supplied by GAI-Tronics hereunder. The applicability of any such third-party warranty will be determined by GAI-Tronics.

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Return Policy

If the equipment requires service, contact your Regional Service Center for a return authorization number (RA#). Equipment should be shipped prepaid to GAI-Tronics with a return authorization number and a purchase order number. If the equipment is under warranty, repairs or a replacement will be made in accordance with the warranty policy set forth above. Please include a written explanation of all defects to assist our technicians in their troubleshooting efforts.

Call 800-492-1212 (inside the USA) or 610-777-1374 (outside the USA) for help identifying the Regional Service Center closest to you.