



**GAI-TRONICS®**  
A HUB BELL C O M P A N Y

# Model 10439-102

## Electrical Safety Barrier for Centra-Page Systems

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### Confidentiality Notice

This manual is provided solely as an operational, installation, and maintenance guide and contains sensitive business and technical information that is confidential and proprietary to GAI-Tronics. GAI-Tronics retains all intellectual property and other rights in or to the information contained herein, and such information may only be used in connection with the operation of your GAI-Tronics product or system. This manual may not be disclosed in any form, in whole or in part, directly or indirectly, to any third party.

### General Information

The Model 10439-102 Electrical Safety Barrier is used in GAI-Tronics Centra-Page communications systems. This system provides industrial quality intra-plant communications in both hazardous and non-hazardous areas.

GAI-Tronics Centra-Page system provides dependable paging and party line communications for rugged and hazardous industrial facilities. Centra-Page features centrally-located electronics that provide environmental protection and unitized amplification for easy maintenance. Standard Centra-Page cabinets can support up to 30 handset stations and in most cases up to 60 paging speakers.

The listed handset stations, when installed with a corresponding Model 10439-102 Electrical Safety Barrier in accordance with Control Drawing No. 72979, provides intrinsically safe communications in Class I, Div. 1, Group C and D hazardous areas. One barrier is required for each handset station located in a Class I, Div. 1, Group C and D hazardous area in a Centra-Page system.

In Centra-Page systems, barriers are not installed in conjunction with speakers or horn/driver combinations: speakers and horn/driver combinations located in Div. 1 hazardous areas must be explosion-proof and be installed with explosion-proof conduit.

## Installation

Figure 2 shows the wiring details for the Centra-Page Electrical Safety Barrier. The Model 10439-102 Electrical Safety Barrier should be installed before any of the associated Station Line Cards are plugged into the Centra-Page Card Rack.

1. Remove the cover from the front of the Model 10439-102 Electrical Safety Barrier.
2. The barrier enclosure is not provided with conduit openings because the location of these openings will vary between installations. Determine the location of the conduit openings. Drill or punch the holes in the enclosure.  
**NOTE:** Bottom or side entry for the openings is advised because condensation and liquids can most easily enter the enclosure from the top.
3. Figure 1 shows the mounting details for the Model 10439-102 Electrical Safety Barrier. Mount the barrier as shown in the figure.
4. Wire the barrier as shown in Figure 2.
5. Replace the front cover of the barrier.

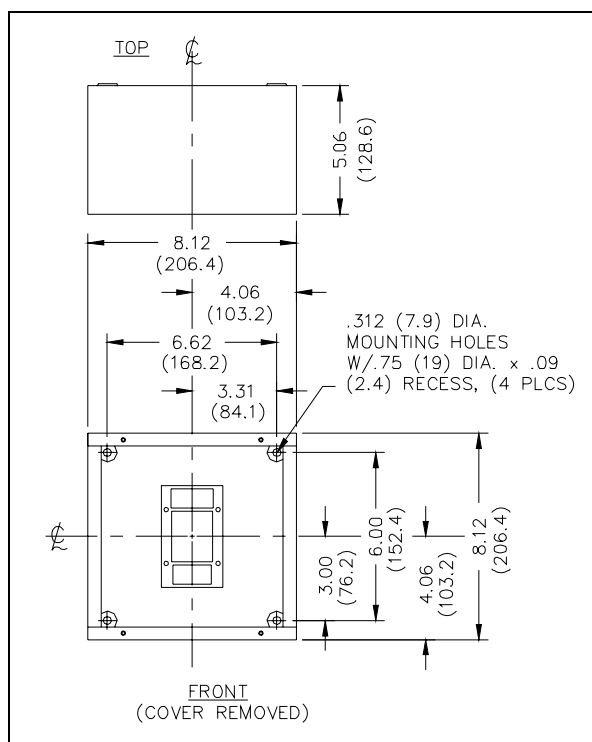


Figure 1. Mounting Details

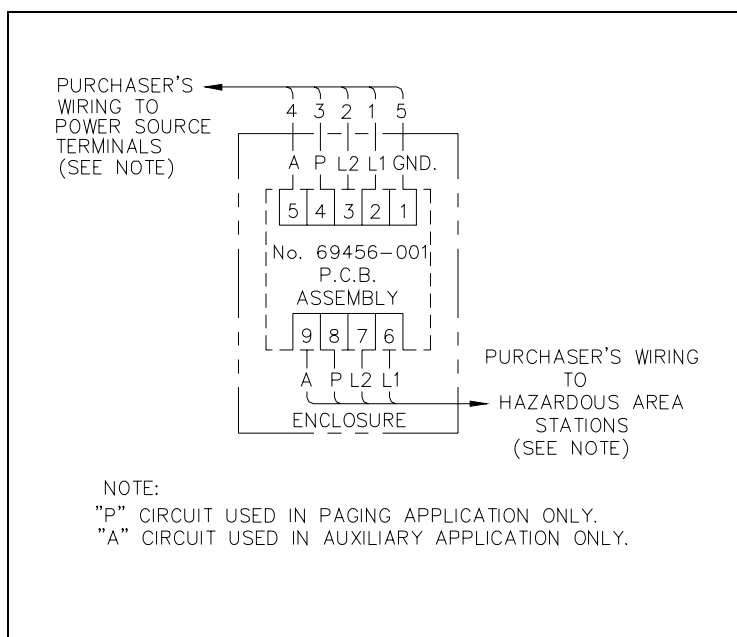


Figure 2. Centra-Page Wiring Details

# Specifications

## Electrical

Safe Barrier ..... Input V: 14 V dc maximum  
Input I: 60 mA maximum

## Mechanical

Enclosure construction/finish..... 16 gauge cold rolled steel/gray polyurethane finish  
Connections ..... Internal screw-type terminal blocks  
Operating temperature range..... -22 °F to +140 °F (-30 °C to +60 °C)  
Temperature code..... T4  
Dimensions ..... 8.1 × 8.1 × 5.1 (206 × 206 × 129 mm)  
Shipping weight ..... 6 lbs. (2.7 kg)  
Approvals..... NRTL approved for use in US and Canada as associated apparatus located in  
Class I, Div. 2, Groups C and D hazardous locations  
when installed in accordance with Control Drawing No. 72979

## Replacement Parts

GAI-Tronics Corporation offers the following parts as spare or replacement stock for your facility. Please refer to the part number listed below when ordering.

Part Number	Description
69456-001	Safe Barrier

# Warranty

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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.

Services. Any services GAI-Tronics provides hereunder, whether directly or through subcontractors, shall be performed in accordance with the standard of care with which such services are normally provided in the industry. If the services fail to meet the applicable industry standard, GAI-Tronics will re-perform such services at no cost to buyer to correct said deficiency to Company's satisfaction provided any and all issues are identified prior to the demobilization of the Contractor's personnel from the work site. Re-performance of services shall be Buyer's sole and exclusive remedy, and in no event shall GAI-Tronics warranty obligations with respect to services exceed 100% of the total cost of the services provided hereunder.

Warranty Periods. Every claim by Buyer alleging a defect in the goods and/or services provided hereunder shall be deemed waived unless such claim is made in writing within the applicable warranty periods as set forth above. Provided, however, that if the defect complained of is latent and not discoverable within the above warranty periods, every claim arising on account of such latent defect shall be deemed waived unless it is made in writing within a reasonable time after such latent defect is or should have been discovered by Buyer.

Limitations / Exclusions. The warranties herein shall not apply to, and GAI-Tronics shall not be responsible for, any damage to the goods or failure of the services supplied hereunder, to the extent caused by Buyer's neglect, failure to follow operational and maintenance procedures provided with the equipment, or the use of technicians not specifically authorized by GAI-Tronics to maintain or service the equipment. THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES AND REMEDIES, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

## Return Policy

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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.