

## 126

### *Heavy Duty Total Failsafe® TFS® Station Protector Module*

Heavy Duty  
Two-Electrode Gas Tubes

---

Fully Encapsulated  
Assembly

---

Listed to UL 497



Tii's Total Failsafe® Station Protector Modules are the basic components of tii Station Protectors. Because the wiring terminals are an integral part of the protector module, the entire self-contained unit must be removed and replaced when it reaches its "end of life" condition. This ensures that the subscriber is always protected when connected to the service wire.

#### **KEY PRODUCT BENEFITS**

- ▶ The 126 consists of two Heavy Duty two-electrode tii gas tubes; a fail short mechanism in case of a power cross condition, backup airgaps, an epoxy filled shell with two #10 wiring studs and a ground strap
- ▶ The encapsulation of the internal components of the module safeguards against contamination and corrosion of the protection elements. This feature is not found in screw-in type station protectors.
- ▶ The module may be employed in a variety of single and multiple pair protector assemblies and network interface devices
- ▶ The heavy duty tii gas tube provides an extra level of protection compared to most two-electrode tubes in both life and current handling capacity
- ▶ The gas tube is constructed of selected metal alloy and ceramic materials to insure years of dependable service
- ▶ The gas tube provides low maintenance cost without the problems normally associated with carbon air gap devices
- ▶ The gas tube's sealed atmosphere assures fast and consistent responses with a stable breakdown voltage. After the surge has ended, self-restoration is quick and uniformly predictable.

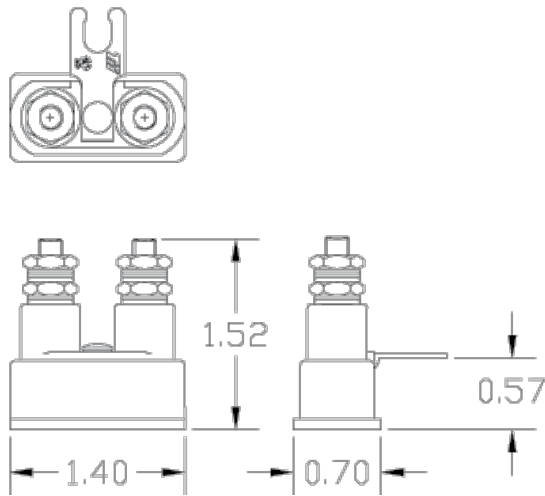


**Tii Technologies Inc.**

*Corporate Headquarters:*  
141 Rodeo Drive  
Edgewood, NY 11717  
Phone: 631.789.5000  
Fax: 631.789.5063  
Toll Free: 888.844.4720  
sales@tiitech.com

#### **INDUSTRY STANDARDS**

- ▶ Listed to UL 497
- ▶ Meets Telcordia GR-1361-CORE, RUS PE-80



Dimensions are in Inches

## SPECIFICATIONS

| <b>126L1</b>                                      |                  | <b>126M</b>  |                          |
|---|------------------|--|--------------------------|
| DC Breakdown                                      | 265 – 600V       | DC Breakdown                                       | 300 - 500V               |
| Impulse Breakdown<br>@100V/ $\mu$ s               | 750V Max – 500V  | Impulse Breakdown<br>@100V/ $\mu$ s                | 750V Max - 500V          |
| @10KV/ $\mu$ s                                    | 1200V Max – 800V | @10KV/ $\mu$ s                                     | 1200V Max - 800V         |
| Insulation Resistance<br>@ 100V DC                | >100 Megohms     | Insulation Resistance<br>@100V DC                  | >1000 Megohms            |
| Service Life                                      |                  | Service Life                                       |                          |
| 10A, 10/1000 $\mu$ s waveform                     | 1500 Surges      | 5000A, 10/1000 $\mu$ s waveform<br>either polarity | 400 Surges<br>600 Surges |
| 100A, 10/1000 $\mu$ s waveform<br>either polarity | 100 Surges       |  |                          |
| 300A, 10/100 $\mu$ s waveform<br>either polarity  | 50 Surges        | AC Discharge, 11 Cycles                            | 65A                      |
| Short Duration AC Life                            |                  | Maximum Single                                     |                          |
| 1000V AC, 10A, 1 sec                              | 5 Operations     |  |                          |
| 1000V AC, 1A, 1 sec                               | 60 Operations    |  |                          |
| Test Method: Telcordia GR-1361-CORE               |                  | Discharge Current $\mu$ s waveform                 | 10kA                     |
|   |                  | DC Holdover  | 150V Minimum @           |
|   |                  | Test Method: IEEE C62.31 - 1987, RUS-PE-8          |                          |

## ORDERING INFORMATION

| <b>Model No.</b> | <b>Description</b>   |
|------------------|--|
| <b>126L1</b>     | Two Electrode, Heavy Duty Protector Module                       |
| <b>126M</b>      | Two Electrode, Heavy Duty Protector Module 300-500V dc Breakdown |