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# IHV-1

## High Voltage Monitor

### P/N 1100-9500



Patent Pending

## IHV-1 High Voltage Monitor

The IHV-1 is a high-voltage monitor that indicates when high-voltages are present in 3-phase power systems. Indicators on the IHV-1 front panel flash, and audible “blips” are produced when high voltages are present. The frequency of the flashes and blips is a useful indication of the voltage level.

No direct electrical connections to the phases are required to monitor voltages with the IHV-1. Instead, patent-pending sensor pads are used to sense phase voltages *through the insulation* on each phase cable (cables must not be shielded). These self-adhering, “one-size-fits-all” sensor pads are easy to install, and can be used for all commonly used cable sizes.

### Features & Specifications:

- Independent indicator lamps for each phase. Lamps flash to indicate presence of high voltages.
- Redundant audible alarms “blip” when high voltages are present.
- Frequency of lamp flashes and alarms increase with higher voltages, and vice versa.
- Independently monitors phase-to-ground voltages on each phase.
- Patent-pending sensor pads attach tightly to the insulator on each phase cable without gaps that can result in corona damage.
- **No direct electrical connections to the phases are needed.**
- Sensor pads recommended for all cable sizes with outside diameters greater than 0.2”.
- Self-powered—**No power supply needed.**
- Fully isolated panel-mounted indicator unit.
- Simple operation: No calibration required, no operator controls.

### Ordering Information:

<u>Part Number</u>	<u>Voltage Range</u>
1100-9500	4 kV to 17 kV



## Front and Rear Panels

### Front Panel:



### Phase Indicator Lamps:

Flash faster at higher voltages, slower at lower voltages.

### Sonic High-V Alerts:

"Blip" rate faster at higher voltages, slower at lower voltages.

### Mounting Screws:

#10 screws recommended.

### Sensor Pad Connector:

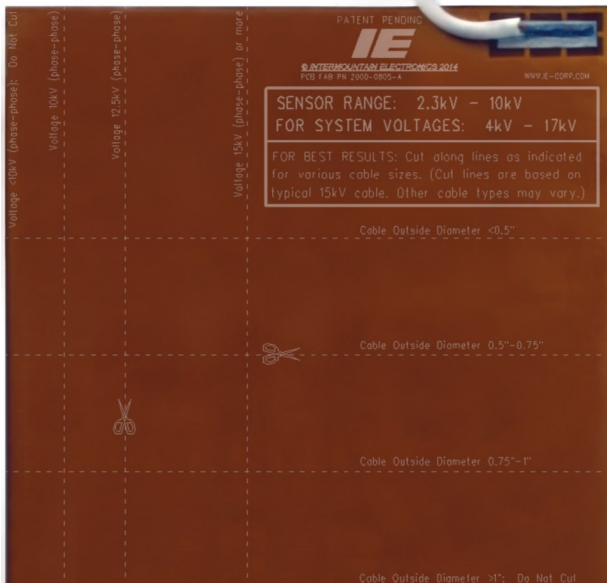
Use only with included IE Sensors and wire harness.

### Rear Panel:



## Sensor Pads

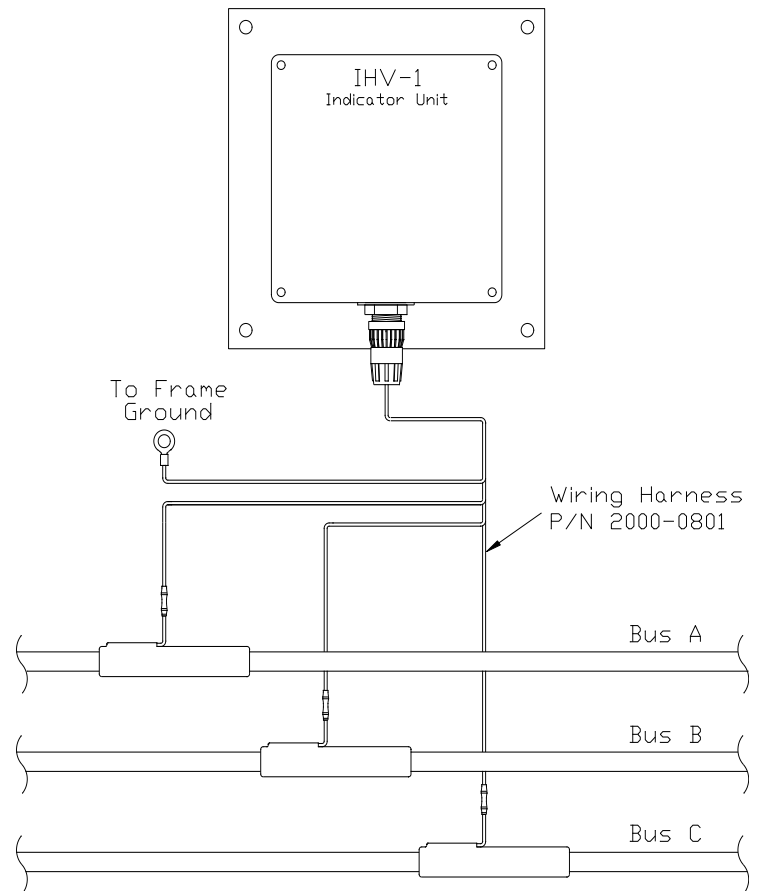
### Before Installation:



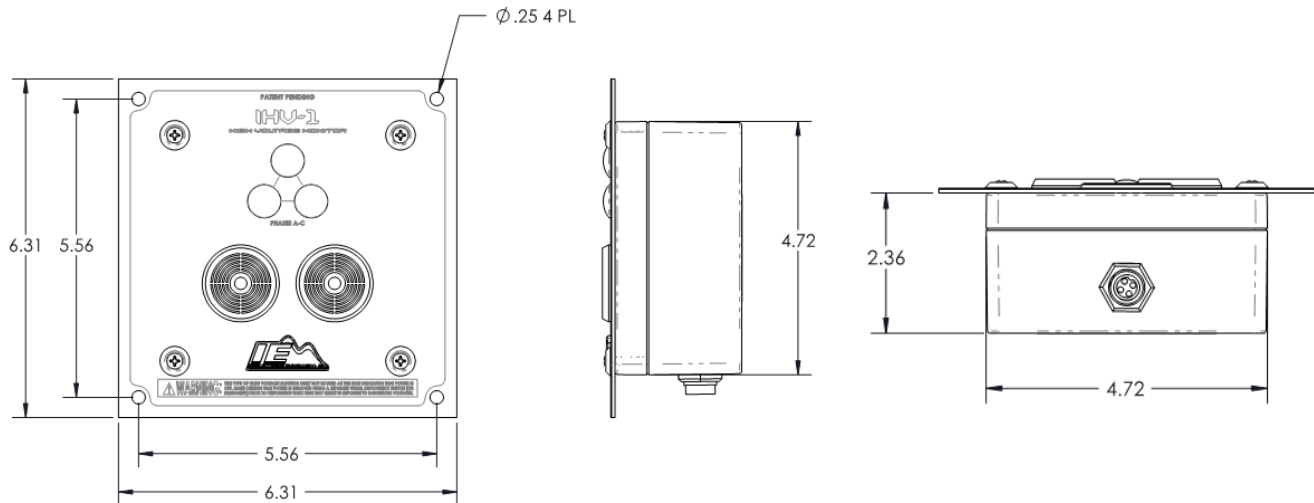
### Installed:



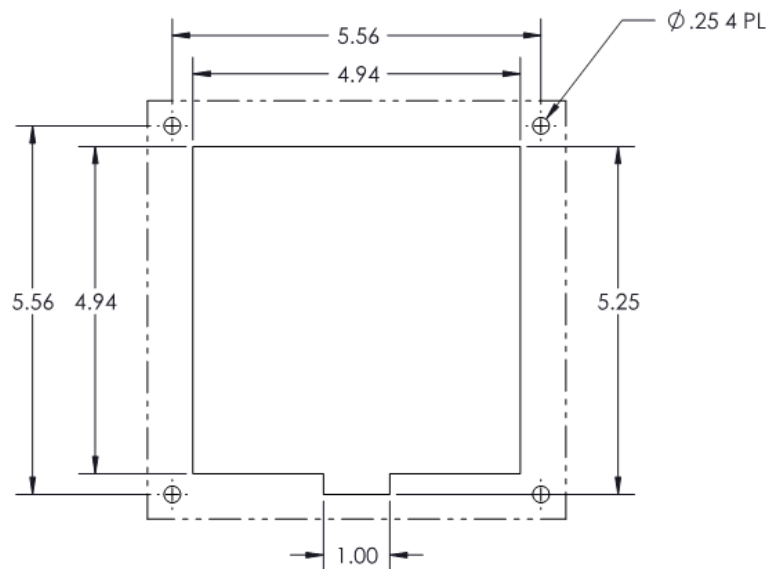
## Connection Diagram



## Mechanical Characteristics



## Panel Cutout



**The IHV-1 is not intended to be used as a sole indication that there is no voltage present. Make certain that power is removed using a separate visual disconnect switch (or equivalent) prior to performing tasks that may result in exposure to dangerous voltages.**

### Important Notice

This document contains information intended to aid in the proper installation and operation of the product described. Although this information will prove useful to the properly trained and qualified user, it is not practical to cover every possible situation, installation contingency, or other detail.

It is imperative that proper engineering and techniques are adhered to in the installation, operation, and maintenance of this product. It is the responsibility of the user to ensure that any system utilizing this product is safe, and that all personnel involved with the selection, installation, maintenance, and use of this product are properly qualified. This product must not be used in situations where its ratings are exceeded.

While every effort has been made to make sure the information in this document is accurate, IE cannot guarantee that there are no errors. Users of this product should verify any aspects of the product's design or performance that are critical to their application, and in particular, any aspects that may affect the safety of the overall system or installation.

Product design and specifications may change without notice.