## 950IS Intrinsically Safe

## The Gemco Intrinsically Safe LDT

The 950IS can be used in hazardous environments when connected to an approved safety barrier. The LDT is UL \& CSA listed for Class I, Group C \& D, Class II, Groups E, F, \& G and Class III hazardous locations, when properly installed.

The term 'Intrinsically Safe' is used to describe electronic equipment that has the ability to be mounted directly in explosive atmospheres without chance of an explosion. The term 'Intrinsically Safe' pertains to a device's inability to produce an electrical spark of enough significance to cause ignition.

How does an Intrinsically Safe LDT work? A Gemco Transmitter (950-1446) is located in a "safe" or "nonexplosive" area which accepts the system's supply voltage ( 115 VAC, 230 VAC, or 24 VDC) and generates the LDTs positional output signal in voltage or current. The transmitter also generates and accepts the LDT signals. These signals are driven through an approved intrinsically safe barrier assuring the safety of the system. Custom 950 Mill Duty enclosures are available for this LDT.


| Specifications |  |
| :--- | :--- |
| Input Voltage/ <br> Current Draw | $24 \mathrm{VDC} @ 85 \mathrm{~mA} \mathrm{max}$. <br> $115 \mathrm{VAC} 50 / 60 \mathrm{~Hz}$ 6 VA <br> $230 \mathrm{VAC} 50 / 60 \mathrm{~Hz}$ @ 6 VA |
| Output | $0-10 \mathrm{VDC}$ or $10-0 \mathrm{VDC}$ <br> $4-20 \mathrm{~mA}$ or $20-4 \mathrm{~mA}$ |
| Non-linearity/Accuracy | $.01^{\prime \prime}$ |
| Repeatability | $+/-0.01 \%$ of Full Stroke |
| Operating Temperature | $-10^{\circ}$ to $180^{\circ} \mathrm{F}$ <br> $\left(-23^{\circ}\right.$ to $\left.82^{\circ} \mathrm{C}\right)$ |
| 1) Head Electronics | $-40^{\circ}$ to $185^{\circ} \mathrm{F}$ |
| $\left(-40^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ |  |

## Part Numbering




## Stroke in Inches

Insert stroke in inches to 0.1 inch. Enter as a four-place number. Example: 12.0 inch stroke entered as 0120. To convert a metric stroke in millimeters, multiply millimeter value by 0.03937 to arrive at inch value.

## Dimensions \& Wiring Diagram



