



### Standard Features:

High Input-Output-Power Isolation (1500VAC Test)

Industry Standard Inputs: 4-20 mA, 1-5 VDC, and more (see back)

Industry Standard Output: 4-20 mA, 1-5 VDC, more (see back)

Standard Built-in Linearizations (Linear, Square Root, 1.5 Power)

Other Linearizations Available

Easy Field Calibration (Typ. calibration time < 2 min. using handheld meter only)

Microprocessor Controlled for High Accuracy

Two Wire Supply Option for Two Wire Transmitters

Power: 117 VAC 50/60 Hz (Optional 24 VDC)

High Noise Rejection

CSA and NRTL Approved (LR 51078)

### Function:

The IUC-XX-LNT is a microprocessor based integrator with linearizer. It has one analog input, one analog output and a contact (or pulse) output. The contact or pulse output is the integrated output of the analog input. The integration range can be easily adjusted to anything from 0.25 CPH (counts per hour) to 8192 CPH. The integration output can be either a dry contact or a 24 VDC pulse.

Two built-in linearizing functions can be activated via jumpers and the IUC-XX-LNT will then first linearize the input before integrating it. The two functions are Square Root and 1.5 Power. The analog output reflects the linearized input if a linearization has been activated. Otherwise it is a linear follower of the input.

### Calibration:

Two potentiometers, Integ. Span and Drop Out, are used for the integration constant and lower limit linearization drop out. Each of the pots has a test point associated with it. The Test Points show a voltage of 0-5 VDC for a parameter value of 0-100%.

### Specifications:

Isolation: Input to Output to Power 1500 VAC (test)

Accuracy/Linearity: +/- 0.3% max., +/- 0.1% typ.

Operating Temperature: -40 Deg.C. to +50 Deg.C.

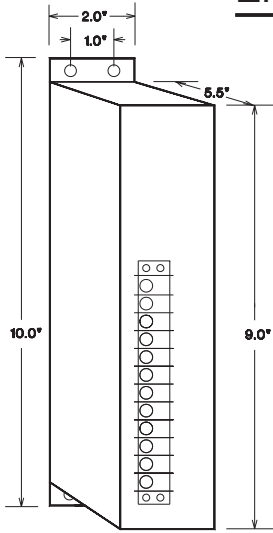
Temperature Effects: +/-0.5% max., +/-0.2% typ.  
(for 40 Deg.C. change)

Contact Rating: 10A 1/8HP @ 125VAC

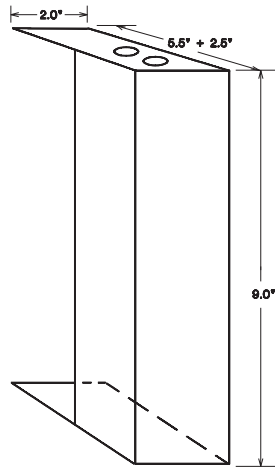
6A 1/8HP @ 277VAC

# IUC-XX-LNT

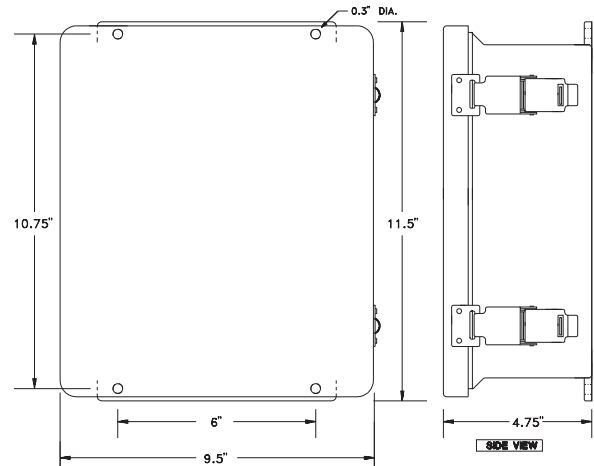
## Enclosures & Dimensions:



Standard Metal Enclosure



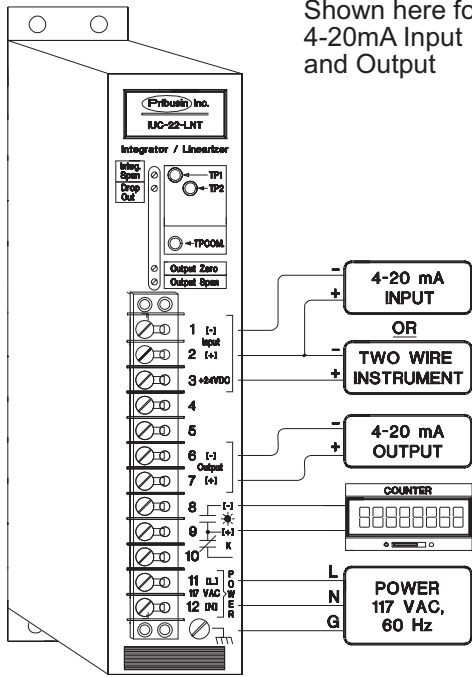
Conduit Cover Option for Metal Enclosure



NEMA 4X Option

## Connection:

Shown here for 4-20mA Input and Output



## Model Designation:

IUC - X X - LNT

Input

Output

- 1: 1-5 mA (Zin=1K Ohm)
- 2: 4-20 mA (Zin=250 Ohm)
- 3: 0-1mA (Zin=5K Ohm)
- 4: 10-50 mA (Zin=100 Ohm)
- 5: 1-5 VDC (Zin=1Meg Ohm)
- 6: 0-10 VDC (Zin=1Meg Ohm)
- 7: Special Input

- 1: 1-5 mA (4000 Ohm Drive)
- 2: 4-20 mA (1000 Ohm Drive)
- 3: 0-1 mA (20000 Ohm Drive)
- 4: 10-50 mA (250 Ohm Drive)
- 5: 1-5 VDC (Zout=250 Ohm)
- 6: 0-10 VDC (Zout=500 Ohm)
- 7: Special Output

Example: Integrator with 4-20 mA Input and 4-20 mA Output and 24V pulse output in standard metal enclosure is designated by: IUC-22-LNT-P

If no options specified, unit is 117 VAC Power in metal enclosure

## Options: (Add letters to end of Model Number)

- A - 24 VDC Prime Power
- B - 240 VAC Prime Power (not CSA approved)
- P - 24 VDC Pulse Output (Instead of 'C' Contact)
- T - 200 mA Two Wire Supply (24 VDC unreg.)
- C - Conduit Cover for Metal Enclosure (see above)
- N - NEMA 4X enclosure (see above)

Manufactured By:



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