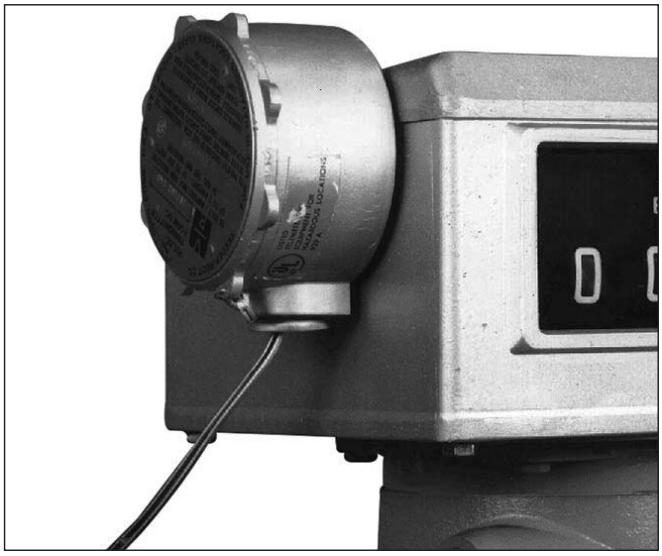
Model LNC Transmitter

Bulletin SS01045 Issue/Rev. 0.1 (1/93)



Smith Meter® PD Meter Accessories

The **Model LNC** (Large Numeral Counter) **Transmitter** adapts to a 600 Series LNC to provide a contact closure for signaling remote instrumentation. It chops a fixed level input voltage to form a square wave pulse (with minimum contact bounce) for use with transistorized circuits such as an electronic drive control.

The **LNC Pulse Transmitter** consists of a rugged die cast explosion-proof housing with a screw-type cover for easy access to the pulsing mechanism. The transmitter utilizes a dry reed switch, magnet, and gear train, synchronized to provide 1 or 10 contact closures per revolution of the right-hand wheel, as required.

Features

- **UL-Listed, CSA-Certified Explosion-Proof.**
- **Square Wave Pulse –** Minimum contact bounce.
- **Choice of 1 or 10** contact closures per revolution of right-hand wheel.
- **Reliable –** Long life.

Models

Model No.	Closures per Revolution of Right-hand Wheel
LNC-1	1
LNC-10	10

Specifications

Contact Rating
Maximum Power: 50 VA resistive.
Maximum Voltage: 250V (AC or DC).
Maximum Current: 3 Amps continuous.

Type Switch
Dry Reed Switch (SPST).

Contact Resistance
500 milliohms.

Actuating Time
0.001 second average.

Contact Bounce
0.001 second average.

Speed
0 to 2,500 contact closures per minute.

Contact Timing
40 to 50% on, the balance off.

Resolution
One to ten contact closures per revolution of the LNC right-hand wheel.

Operating Temperature
Compensated for -40°F to 160°F (-40°C to 71°C).

Torque
3.0 oz-in (4 N•cm) maximum.

Life Expectancy
20 million contact closures at rated load or 2 million revolutions of input shaft. One hundred million at 1/2 rating with 10:1 ratio. Up to 200 million at reduced load.

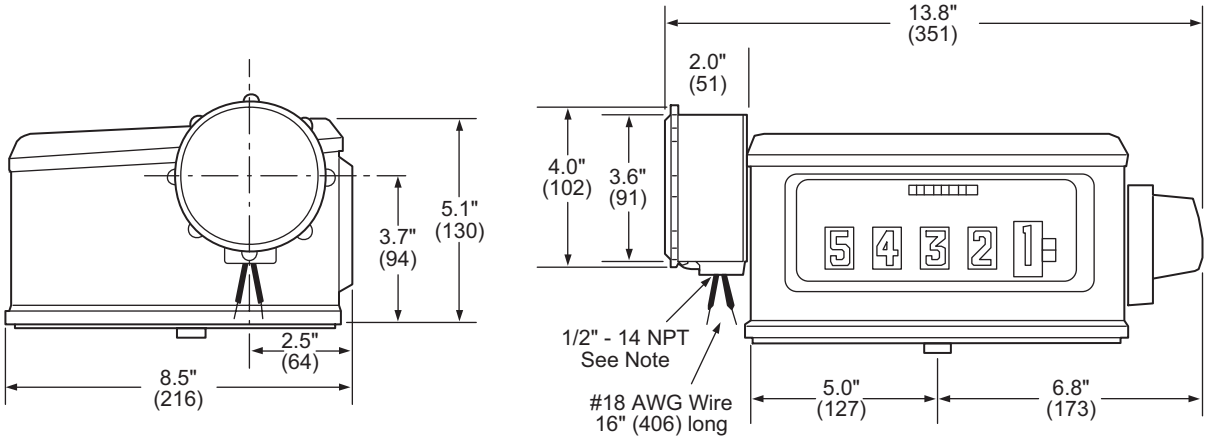
Contact Protection
Arc suppression is required when used with AC circuits. Type and value of suppression will vary with coil and coil voltages.

Housing
UL-listed, CSA-certified for use in Class I, Groups C and D hazardous locations.

Dimensions

Inches (Millimeters)

Dimensions – Inches to the nearest tenth (millimetres to the nearest whole mm), each independently dimensioned from respective engineering drawings.

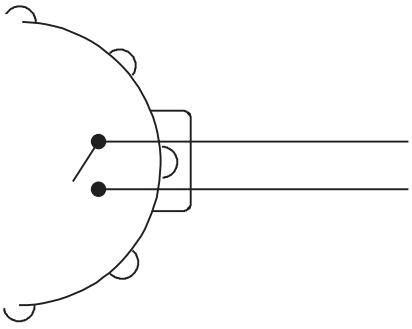


Note: It is recommended that a sufficient length of flexible conduit be used to relieve stresses on the transmitter/housing interface caused by rigid conduiting.

Ordering Information

LNC transmitter can be either mounted at the factory or field-mounted. Please specify 1 pulse per rev. (Model LNC-1) or 10 pulses per rev. (Model LNC-10).

Wiring Diagram



Revisions included in SS01045 Issue/Rev. 0.1 (1/93):
Mechanical Characteristics Switch information has been updated. Modeling Code has been updated. March 2019 - Editorial Change - Branding and contact information updated.
The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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