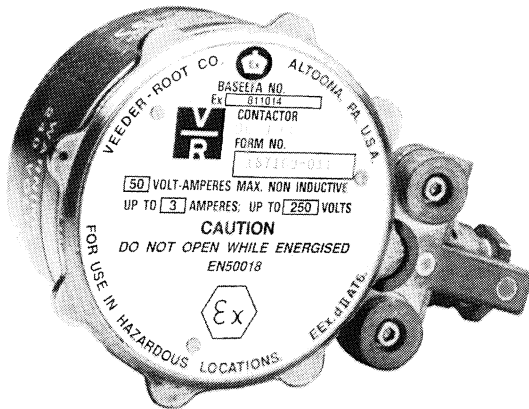




# VEEDER-ROOT

# PETROLEUM PRODUCTS

## 1871 BASEEFA PULSE TRANSMITTER



### RELIABLE . . . LONG LIFE

- BASEEFA certified & CE compliance per Emc directive 89/336.
- Square wave pulse. Minimum contact bounce.
- Choice of 1, 2, 5 & 10 pulses per revolution.
- Bidirectional operation.
- Mount in any position.
- Explosion-proof construction.

### APPLICATIONS

The Series 1871 pulse transmitter has been designed for use with gasoline pump computers and miscellaneous electrical counters in remote indicating and data systems. It provides fast, accurate pulsing for counters, printers, and stepping motors used with remote indicating, totalizing, and data systems.

### DESCRIPTION

The pulse transmitter chops a fixed level input voltage to form a square wave pulse with minimum contact bounce for use with transistorized circuits.

The Series 1871 pulser 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 pulse per revolution. Long life is a feature of this unit.

### MODELS

**Series 1871** — Bidirectional. Specify input shaft length from table on reverse side of this page.

### SPECIFICATIONS

Specifications listed are standard unless otherwise noted. Optional features listed are available at additional cost.

**Pulse Frequency:** 1 cycle per revolution of input shaft.

**Contact Rating:** Maximum 50 VA resistive, not to exceed 250 V or 3 amperes.

**Type Switch:** Single pole, single throw.

**Contact Resistance:** 500 milliohms.

**Contact Bounce:** 1 millisecond average.

**Speed:** 0 to 3000 pulses per minute. 300 rpm maximum input shaft speed.

**Pulse Timing:** 50% ± 10% on, the balance off.

**Mounting Position:** Operable in any position, clockwise or counterclockwise rotation.

**Temperature:** Compensated -40° to +160° F (-40° +71° C).

**Torque:** 3.0 oz-in. (216.2 g-cm) maximum.

**Life Expectancy:** Up to 200 million pulses, depending on electrical loads and input shaft speed.

**Contact Protection:** Arc suppression is required when used in inductive circuits. Type and value of suppression will vary with coil and coil voltages under consideration.

**Housing:** Explosion-Proof.

**Mounting:** Three 1/4 - 20 NC-2 blind tapped holes spaced 120° apart on a 2 1/2 - inch (63.5mm) diameter bolt circle are provided on the shaft end of the housing for mounting.

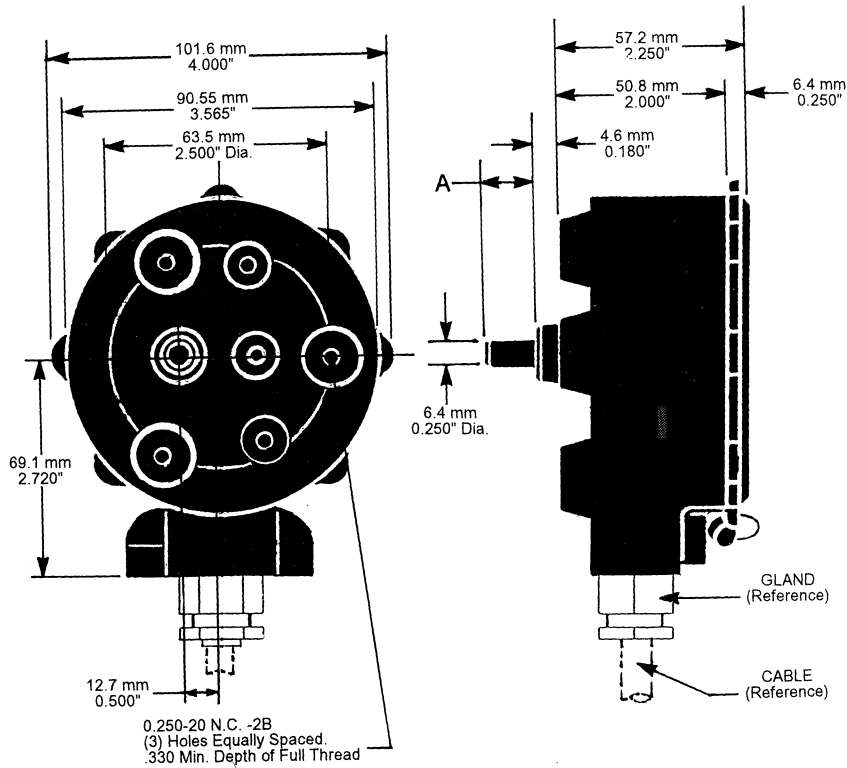
**\*Wiring Note:** The internal earth point screw must not exceed 4mm in length.

### OPTIONS

Standard models of the 1871 have an output of 1 pulse per revolution of the input shaft and should be so specified when ordering. Other ratios may be most economically obtained via customer supplied external gearing. The simplest method to use two spur gears — one mounted on the pulse transmitter input shaft, the mating gear mounted on the customer drive. Ratio pulses of 2, 5 & 10 per revolution can be obtained by special order from the factory. Also available are non-standard input shafts, lead length variations.

(See reverse side for Dimensions)

# DIMENSIONS



## Dimensions

### A. Shaft length standard

.410 + 0.50 in. (10.4 + 1.27 mm )  
- 0.035 in. - 0.88 mm

Any cable gland approved by BASEEFA for use with Group IIA, IIB or IIC enclosures may be used.

2 or 3 core tinned copper conductors required with metallic screen. All enclosed in an outer insulating sheath.

Other lengths available on request

Specifications for this product may have changed since the publication of this data. For current specifications and dimensions, or possible modifications, please contact our nearest office.



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