

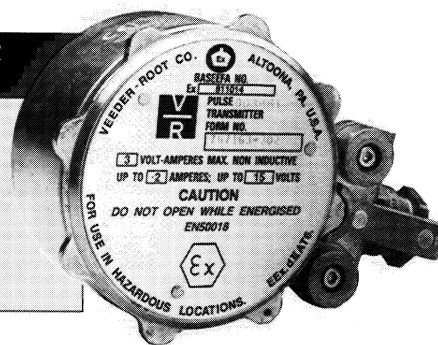
Manual No. 251963, Rev "B"

**VEEDER-ROOT****PETROLEUM PRODUCTS**

7671 BASEEFA SOLID STATE PULSE TRANSMITTER

RELIABLE, LONG LIFE PULSE TRANSMITTER FOR HAZARDOUS LOCATIONS

- BASEEFA certified & CE compliance per Emc directive 89/336.
- Solid State Switching Mechanism.
- Directional Sensing.
- Single or Dual Channel.
- Optional One-way Clutch.
- Explosion-proof Housing.



DESCRIPTION

These solid state pulse transmitters provide fast and accurate signaling for remote indication, totalizing and data monitoring systems. They are BASEEFA certified for gasoline pump computers and applications that require pulsing of output shaft rotation in hazardous locations.

The output can be either dual channel with 50 pulses per revolution per channel or single channel with 100 pulses per revolution. The dual channel pulse trains can be staggered or overlapping. A staggered output allows errors to be detected on either channel or on both concurrently (power loss to pulser). An overlapping output permits the detection of direction of rotation and errors on either channel but not on both concurrently. The single channel devices are used when greater pulse density is desired and error detection is not required.

SPECIFICATIONS

Specifications listed are standard unless otherwise noted. Optional features are available at no additional cost.

Recommended Operating Conditions: Each channel:

Supply Voltage (VCC): 10 to 15 VDC, 75 mA max at 15 VDC.

Output: Dependent on load.

Switching Times: Rise Time: 2 microseconds maximum with 10 mA resistive load to ground. Fall time: 4 microseconds maximum.

Recommended Termination: See reverse side.

Rotation: Standard is bidirectional, customer specified. Optional models available with no-back feature.

Input Shaft Speed: 600 rpm maximum.

Torque: 2 oz-in. maximum (144 gm-cm).

Output Pulse: Dual channel at 50 ppr, staggered or overlapping. Single channel at 100 ppr.

Duty Cycle:

Overlapping/Quadrature: 50% $\pm$ 10% high/low ratio. Second channel phase displaced by 90° $\pm$ 18°.

Staggered: 75% $\pm$ 5% high/low ratio. Second channel displaced by 180° $\pm$ 18°.

Single Channel: 50% $\pm$ 10% high/low ratio.

Operating Environment: -40° to 180° F (-40° to 82° C).

Storage Environment: -67° to 257° F (-55° to 125° C).

Shaft: Specify length of either 0.410 or 0.650 inch (10.4 or 16.5 mm).

Shock: Normal Shipping.

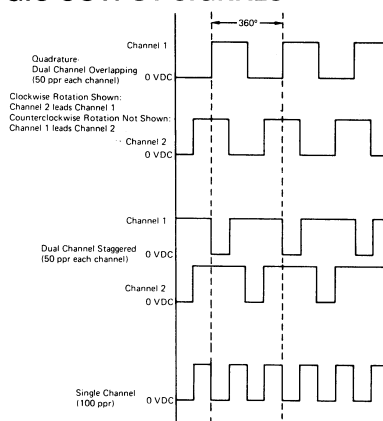
Housing: Explosion-proof.

Mounting: Three 1/4-20 UNC-2B blind tapped holes, spaced 120° apart on a 2.5 in. (63.5 mm) diameter bolt circle.

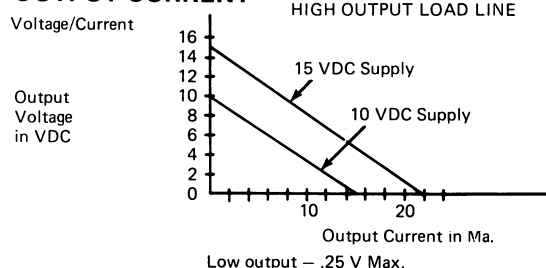
Wiring Note: 1.) Should product be exposed within systems in areas where radiated fields are greater than 3 v/m, possible error in pulse count may occur.

2.) The Internal Earth Point Screw must not exceed 4mm in length.

LOGIC OUTPUT SIGNALS



OUTPUT CURRENT



7671 solid-state pulse transmitter

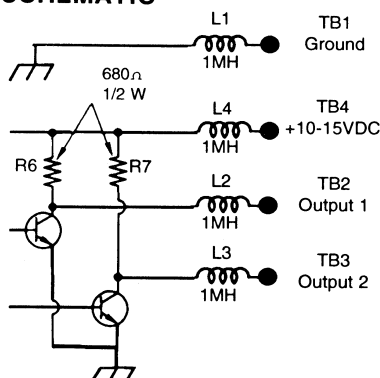
BASEEFA | Product datasheet | 251963 Rev B

MODELS

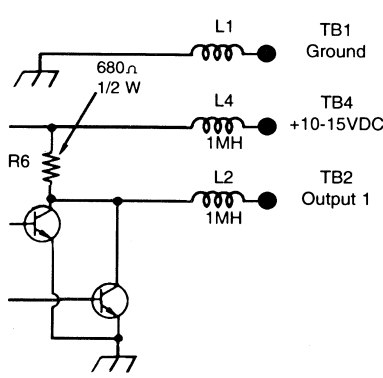
767163-xxx*	Bidirectional	Clockwise	Counter-clockwise
Dual Channel (overlap)	-30x	-40x	-50x
Dual Channel (staggered)	-31x	-41x	-51x
Single Channel	-32x	-42x	-52x

*Third digit of the suffix number indicates length of shaft. Contact factory for details.

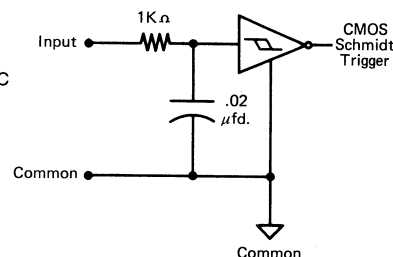
SCHEMATIC



Wiring Connections for Dual Output Models.

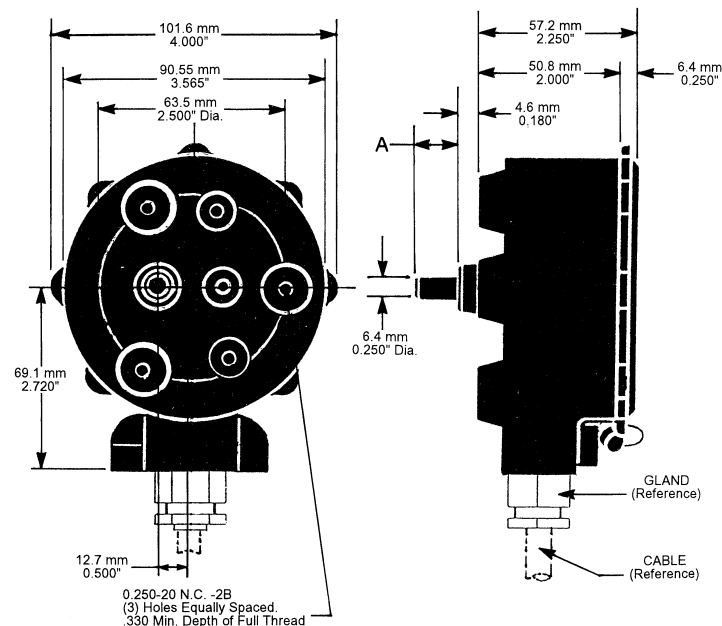


Wiring Connections for Single Output Models.



Typical Termination Schematic. Network may vary depending on application.

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, 3, 4, 5 or 6 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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