



951 Quik-Stik II

The Gemco Quik-Stik II

Gemco brand position sensing products have been known for reliability and high resolution. We have taken over twenty years experience in magnetostrictive linear sensors and married it with our understanding of rugged industrial applications to develop the Quik-Stik II LDT, with patented design for high resolution magnetostrictive linear sensing.

The Quik-Stik II LDT is field proven to provide top performance & repeatability. The on-board microprocessor is programmed to compensate for variables and to linearize outputs, providing high resolution and linearity. The Quik-Stik II LDTs rugged sensing tube construction is welded stainless steel, suitable for insertion in 5000 PSI hydraulic cylinders. The electronics are enclosed behind an anodized housing with O-ring seals for IP67 indoor applications (Type 6 rating available as a special option). There is no need to re-calibrate the sensor once installed.

The Quik-Stik II LDT is available in Analog, Start/Stop Pulse, Control Pulse or Variable Pulse versions. The analog style units offer 16 bits of resolution and are available with voltage or current outputs. The output format, voltage or current, is hardware specified. If voltage outputs are specified, the unit can be programmed for voltage type 5 VDC or 10 VDC, polarity, span, and zero reference point. The ability to select voltage type and polarity allows selection of 0 - 5 VDC, 0 - 10 VDC, -5 to 5 VDC, or -10 VDC to 10 VDC output. The current-type units are programmable for polarity, span, and zero reference. The units are programmable via a hand-held programmer or RS232 serial communications.

The Quik-Stik II LDT, with its high resolution and industrial construction, is at home in areas such as assembly automation, material handling, robotics, and any other industrial area where highly accurate and reliable continuous linear position sensing is needed. Units are available with radiused (curved) probes and in a rugged mill-duty housing.

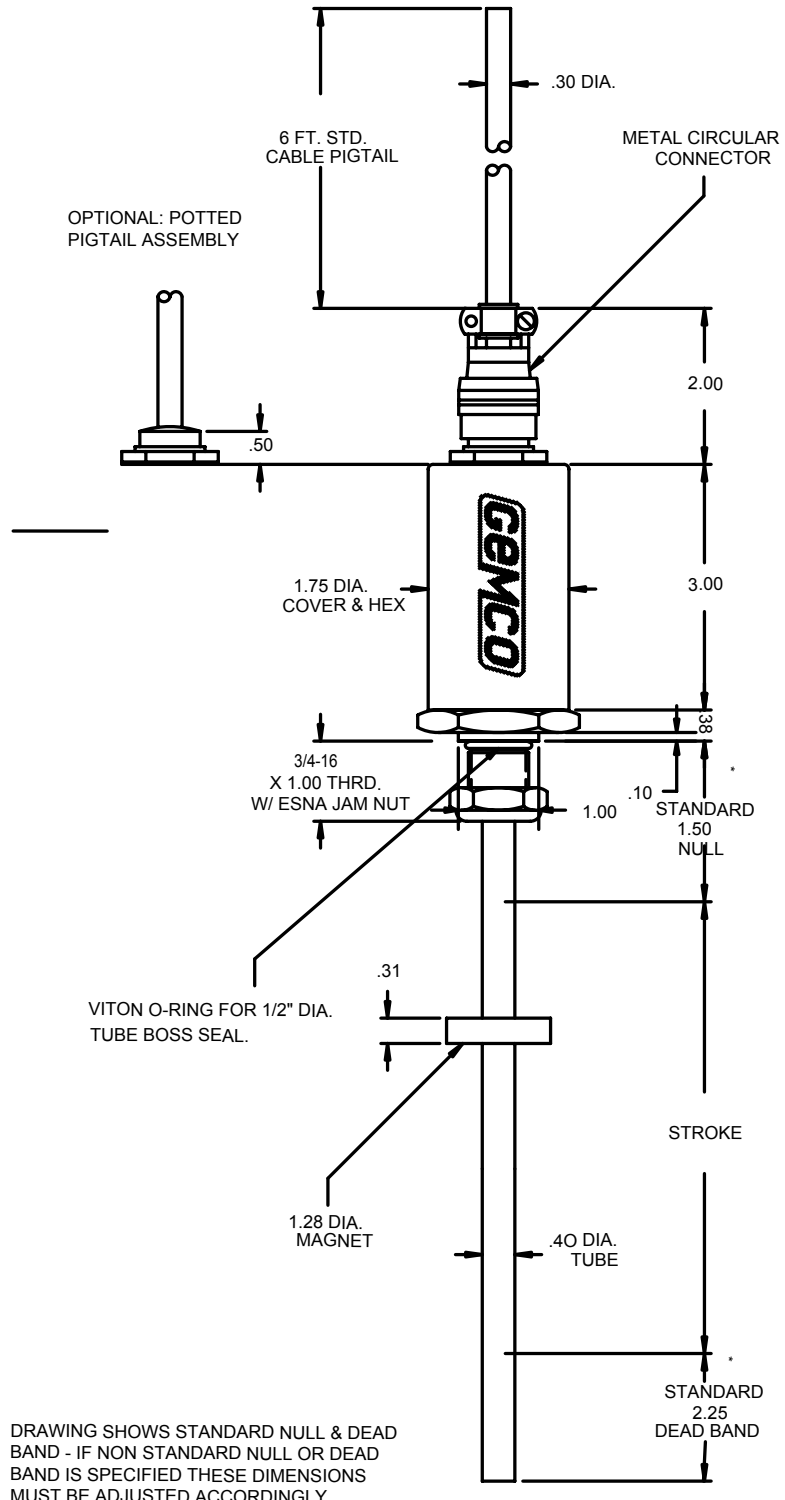


Specifications	
Input Voltage	15 VDC to 26 VDC
Current Draw	< 200 mA at 15 VDC
Output 1) Analog	Absolute Analog Position via Digital-to-Analog Converter -10 to 10 VDC 16-Bit (65,535) Resolution 0 to 10 VDC 15-Bit (32,768) Resolution -5 to 5 VDC 15-Bit (32,768) Resolution 0 to 5 VDC 14-Bit (16,384) Resolution 4 to 20 mA 16-Bit (65,535) Resolution
2) Digital	TTL Level Pulse/Pulse, RS422 Pulse/Pulse RS422 Pulse Width Modulated
Resolution 1) Internal 2) Analog Output	.001" 16 Bit (One Part In 65,535)
Non-linearity/Accuracy	Less than 0.05% of Full Stroke with +/- 0.002" (+/- 0.05 mm) Maximum
Repeatability	+/- 0.001% of Full Scale or +/- 0.0004" (0.102 mm), whichever is greater
Hysteresis	.001" (.025 mm) Maximum
Operating Temperature 1) Head Electronics 2) Guide Tube	-40° to 155° F (-40° to 70° C) -40° to 220° F (-40° to 105° C)
Operating Pressure	5000 psi Operational, 10,000 psi Spike
Span Length	1" - 300"
Null Zone	1.5"
Dead Zone	2.25"
Connectors	1/4 Turn MS Style Connector Standard. Potted Pigtail Assembly Available Optionally
Update Time	2 mS Typically
Enclosure	IP67

Specifications are subject to change without notice.

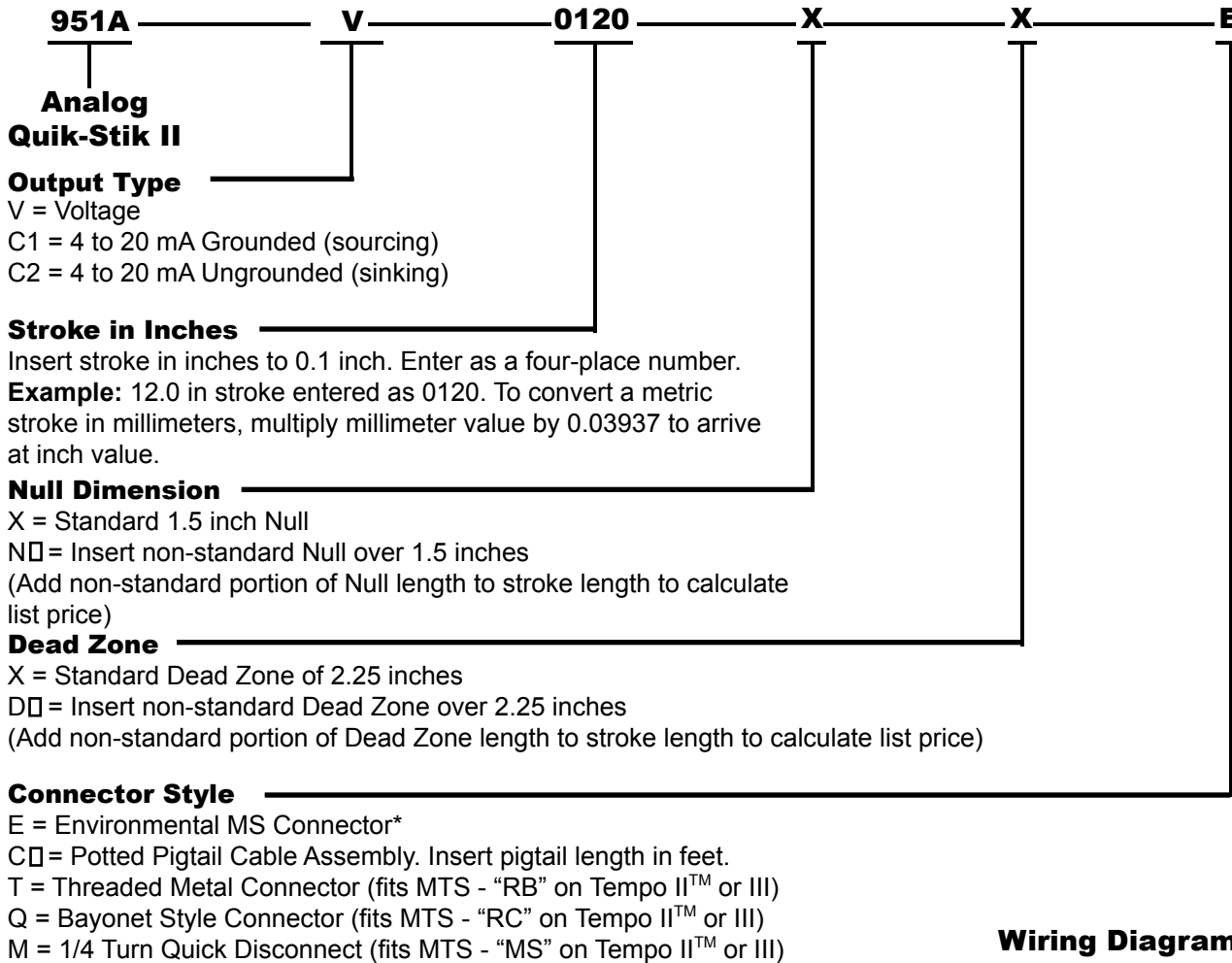
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Dimension Drawing



NOTE: DRAWING SHOWS STANDARD NULL & DEAD BAND - IF NON STANDARD NULL OR DEAD BAND IS SPECIFIED THESE DIMENSIONS MUST BE ADJUSTED ACCORDINGLY.

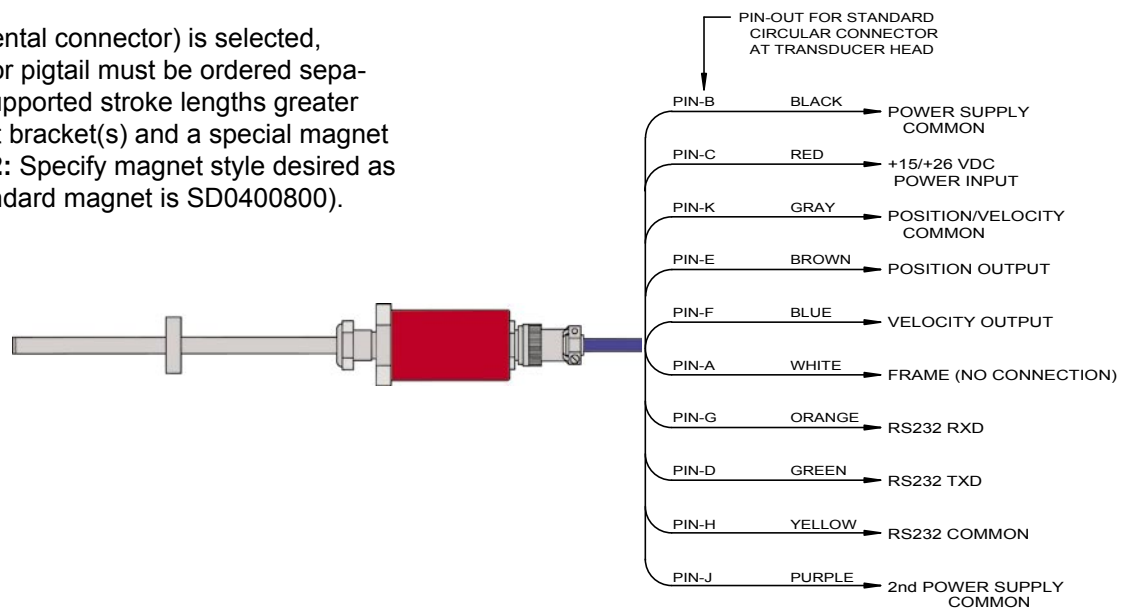
Part Numbering



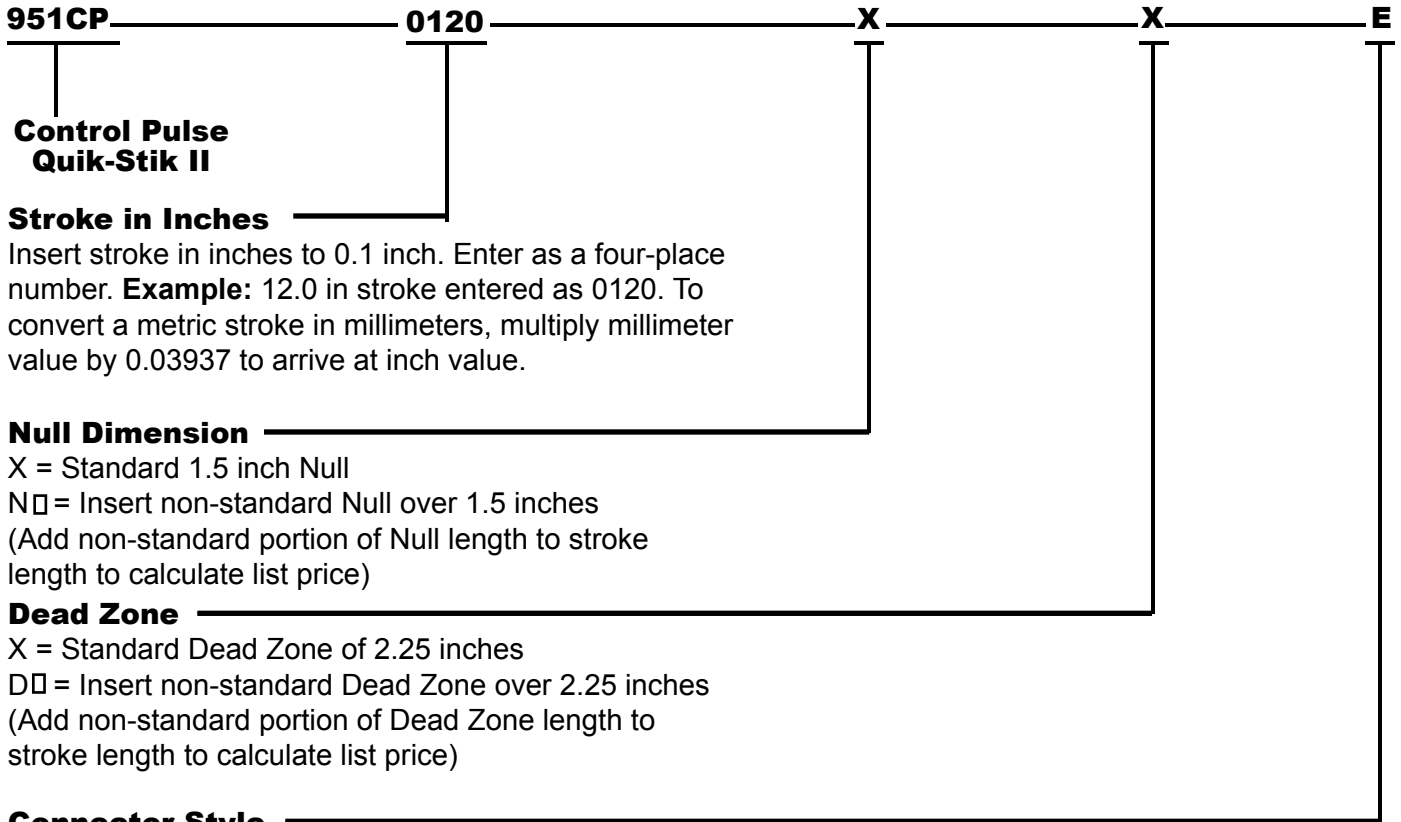
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Wiring Diagram

* If option E (environmental connector) is selected, mating connector and/or pigtail must be ordered separately. **Note 1:** On unsupported stroke lengths greater than 4 feet, rod support bracket(s) and a special magnet should be used. **Note 2:** Specify magnet style desired as separate line item (standard magnet is SD0400800).



Part Numbering

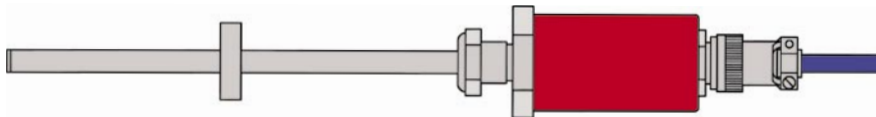


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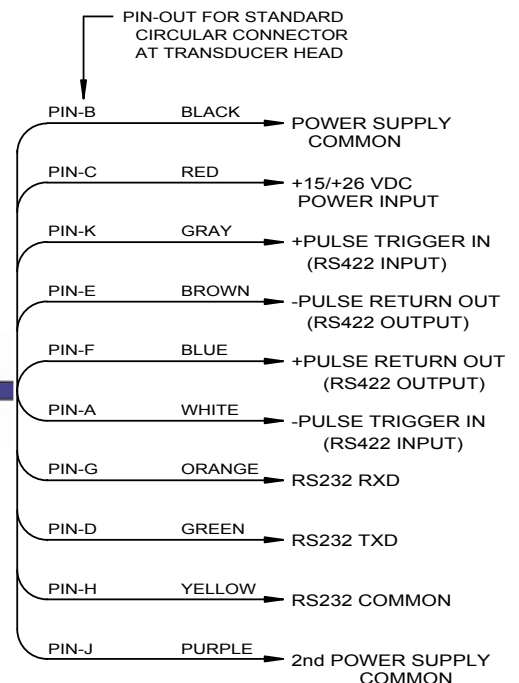
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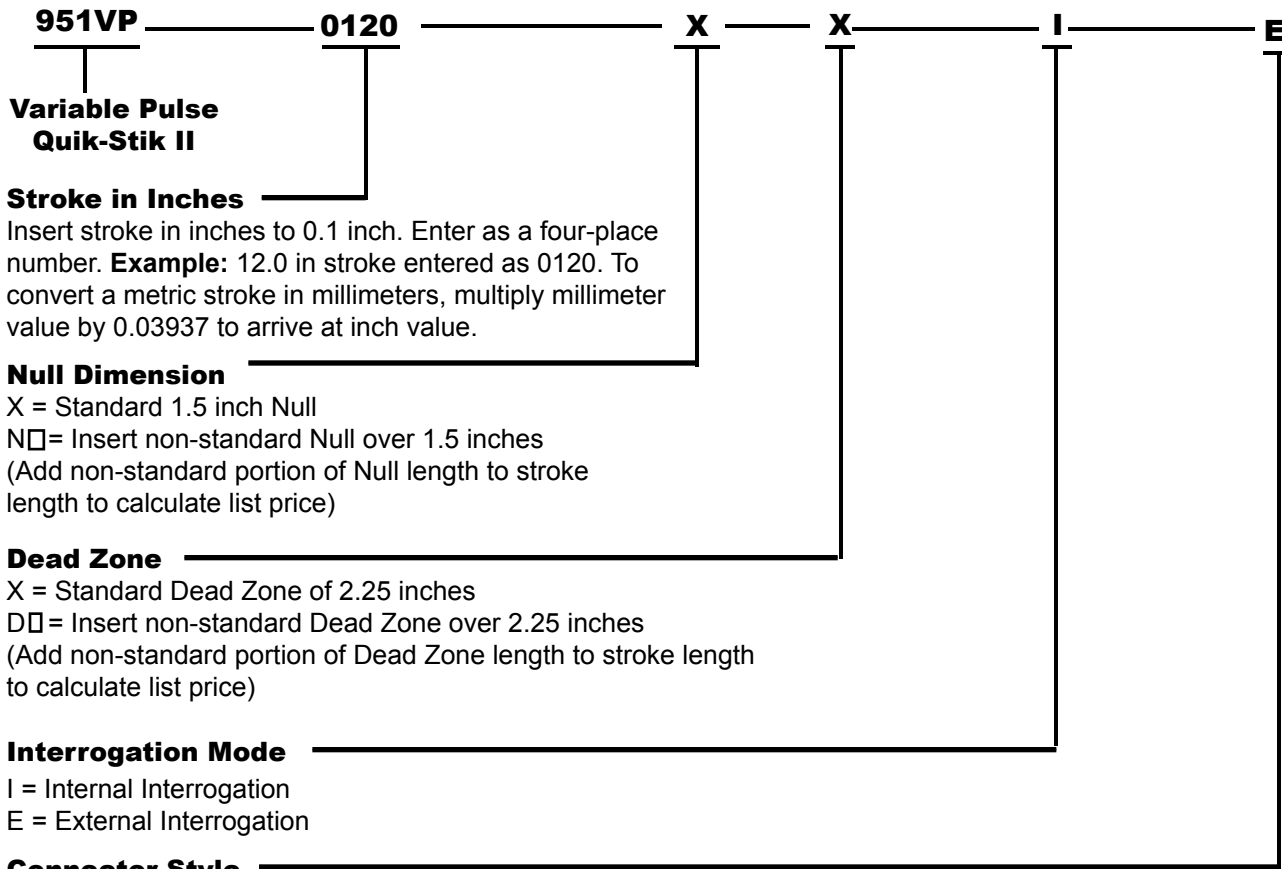
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Wiring Diagram



Part Numbering



Connector Style
E = Environmental MS Connector*
C□ = Potted Pigtail Cable Assembly. Insert Pigtail length in feet.
T = Threaded Metal Connector (fits MTS - "RB" on Tempo II™ or III)
Q = Bayonet Style Connector (fits MTS - "RC" on Tempo II™ or III)
M = 1/4 Turn Quick Disconnect (fits MTS - "MS" on Tempo II™ or III)

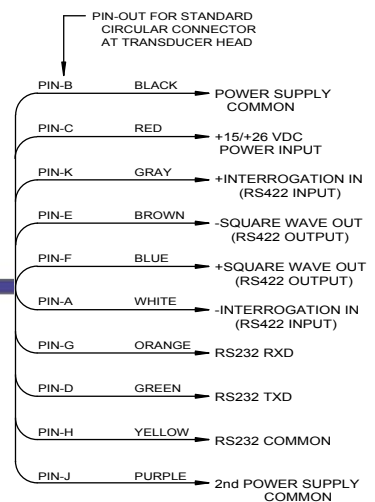
* If option E (environmental connector) is selected, mating connector and/or pigtail must be ordered separately.

Note 1: On unsupported stroke lengths greater than 4 feet, rod support bracket(s) and a special magnet should be used. **Note 2:** Specify magnet style desired as a separate line item (standard magnet is SD0400800). **Note 3:** The unit is field programmable (via PC or hand-held programmer) for number of recirculations.

Note 4: Recirculations from 1-128 (in binary increments) are available. The recirculations are programmed via RS232.



Wiring Diagram



Part Numbering

951RS ————— **0120** ————— **X** ————— **X** ————— **E**

RS422 Start/Stop

Stroke in Inches

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

Null Dimension

X = Standard 1.5 inch Null
 N□ = Insert non-standard Null over 1.5 inches
 (Add non-standard portion of Null length to stroke length to calculate list price)

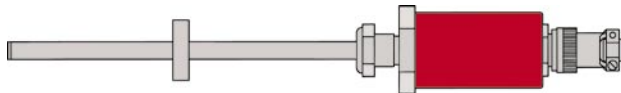
Dead Zone

X = Standard Dead Zone of 2.25 inches
 D□ = Insert non-standard Dead Zone over 2.25 inches
 (Add non-standard portion of Dead Zone length to stroke length to calculate list price)

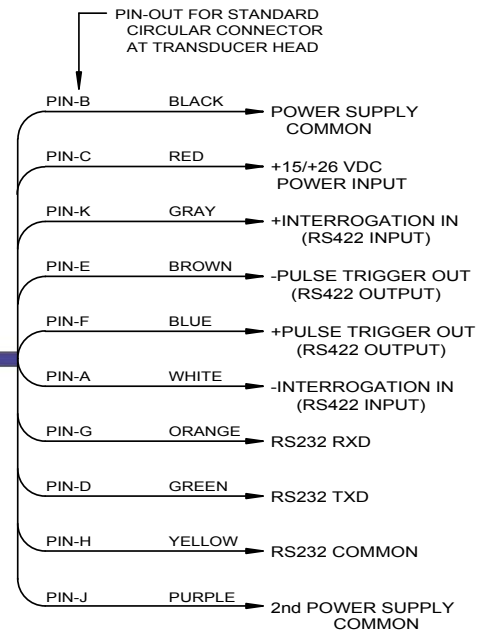
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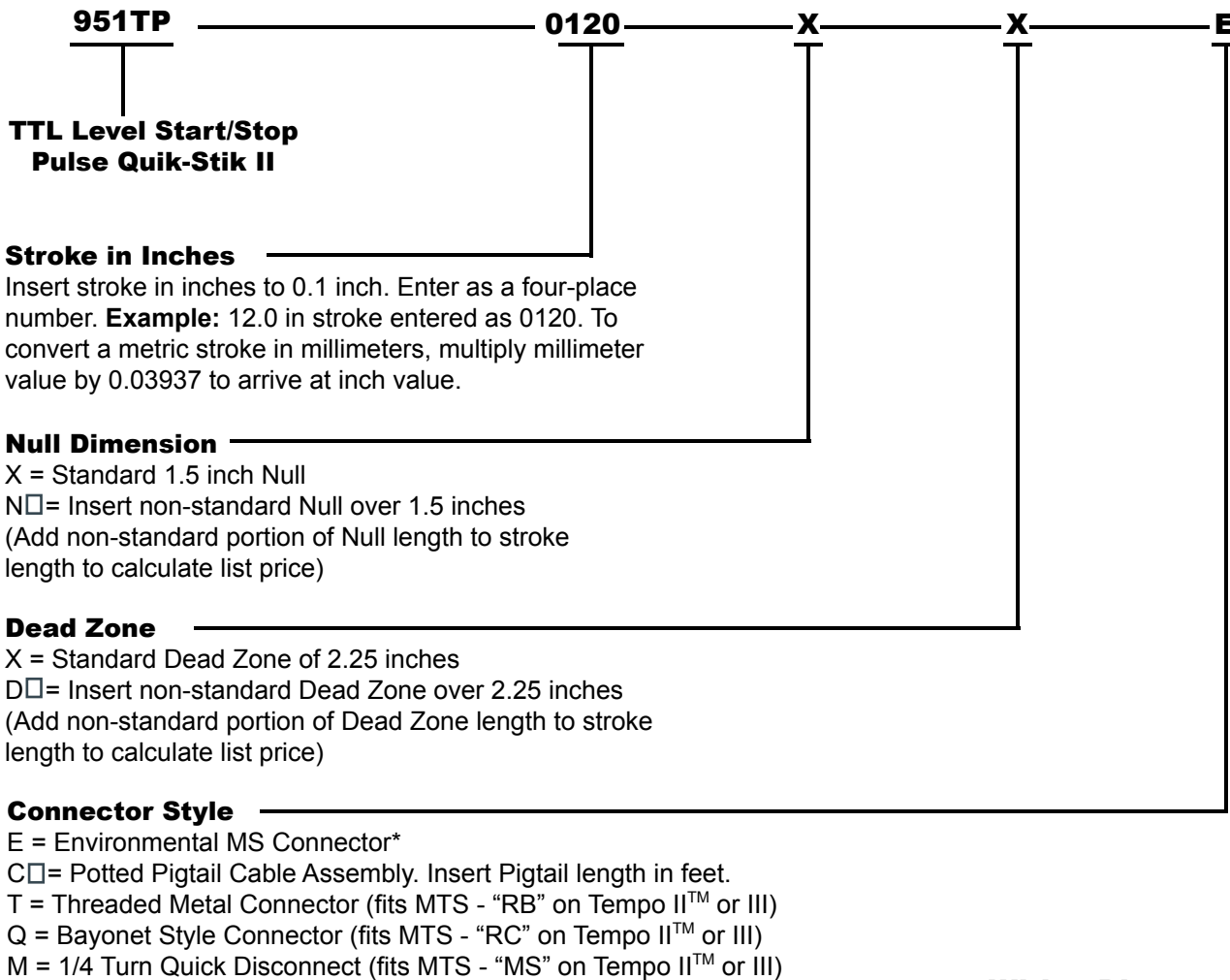
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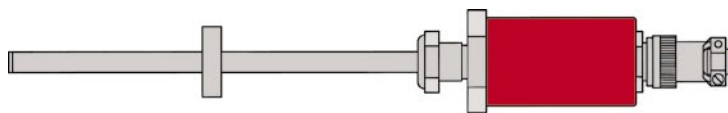
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Wiring Diagram

