

952QD BlueOx with Quadrature Output

Magnetostrictive LDT with Quadrature Output

The BlueOx Quadrature is a magnetostrictive linear displacement transducer (LDT) for continuous machine positioning in a variety of industrial applications. The quadrature output makes it possible for customers to have a direct interface to virtually any incremental encoder input or counter card, eliminating costly absolute encoder converters and special PLC interface modules.

The BlueOx Quadrature LDT is lab tested and field proven to stand up to high shock and vibration without effect. With test results of 2,000 G's of shock and 30 G's of random vibration without false signals or mechanical damage, the BlueOx Quadrature LDT is ready to perform in the most demanding applications.

The BlueOx Quadrature LDT can be ordered with 1 to 9999 cycles per inch of output resolution and the position data is absolute. The transducer features an input to re-zero the probe "on the fly". Another unique feature is the "burst" mode. An input on the transducer triggers a data transfer of all the incremental position data relative to the transducer's absolute zero position. This can be used to achieve absolute position updates when power is restored to the system.

The BlueOx Quadrature is shipped from the factory pre-calibrated and ready for installation. In addition to its ability to withstand shock and vibration, the BlueOx Quadrature is rugged in other ways. Sensing tube construction is welded stainless steel, suitable for insertion in 5,000 PSI hydraulic cylinders.

The electronics are enclosed behind an aluminum housing with O-ring seals. The BlueOx Quadrature LDT, with its rugged construction, is at home in heavy duty areas such as lumber mills, steel mills, stamping plants and any other harsh environment where accurate and reliable continuous linear position sensing is needed.

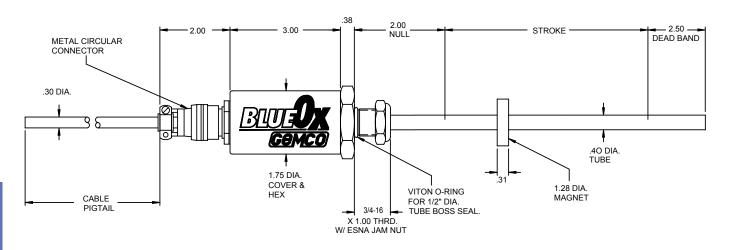


Specifications	
Input Voltage	13.5 - 26.4 VDC
Current Draw	< 200 mA at 15 VDC
Output	Quadrature Output A+, A-, B+, B-, Z+, Z Line Drivers: 5V or Input Power
Inputs	10 - 30 VDC
Resolution	0.001"
Non-linearity/Accuracy	<.05% (+/002" Min)
Repeatability	0.001% of Full Stroke (+/002" Min.)
Hysteresis	+/02% of Full Scale
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	2" - 168"
Null Zone	2.0"
Dead Zone	2.5"
Connectors	1/4 Turn MS Style Connector Standard. Potted Pigtail Assembly Available Optionally
Update Time	Approx. 1mS for < 60" Approx. 2mS for > 60" to < 120" Approx. 3mS > 120"
Enclosure	IP67
Specifications are subject to change without notice. Specifications are based on a typical 36" LDT.	

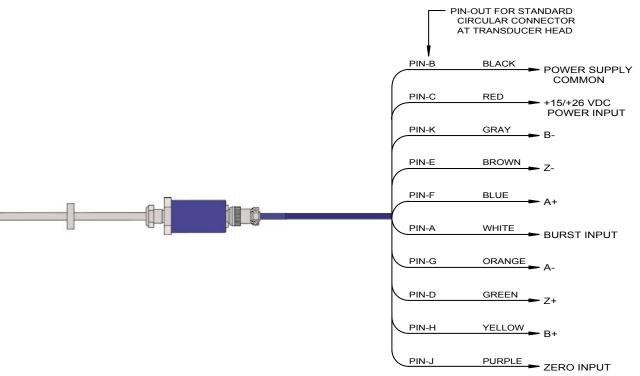


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Dimension Drawing



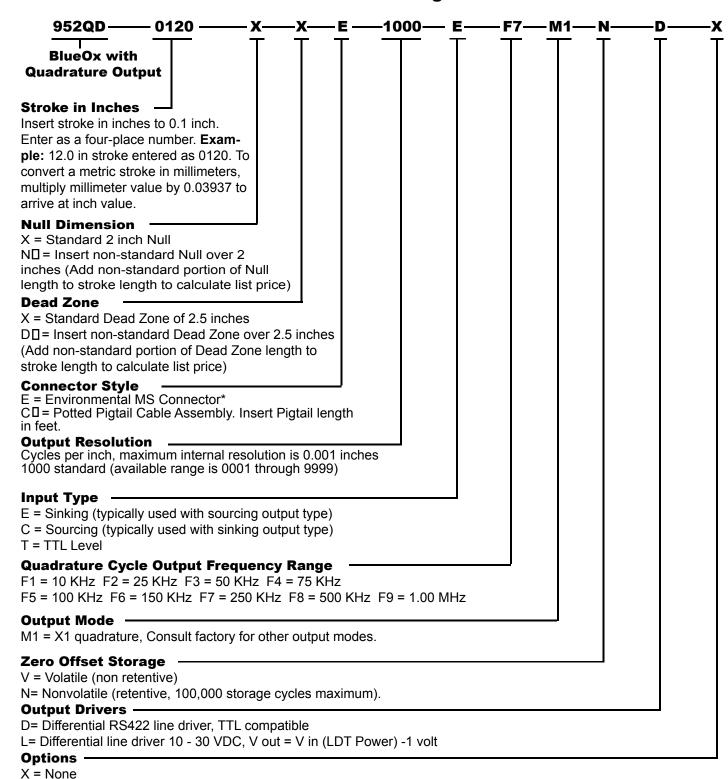
Wiring Diagram





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Part Numbering





952 Connector Options



Option "T"
Threaded Metal Connector
(MTS - "RB" on Tempo II & III)



Option "Q"
Bayonet Style Connector
(MTS - "RC" on Tempo II & III)



Option "M"

1/4 Turn Quick Disconnect Connector
(MTS - "MS" on Tempo II & III)



Stainless Steel Head Cover and Connector (Consult Factory)