



955 eBrik™ LDT Data Sheet

High Resolution Magnetostrictive LDT In a Low Profile Package

The 955 eBrik™ is an accurate, programmable zero and span, auto-tuning, non-contact linear position sensor in an economical, low-profile package. The sensor utilizes our field-proven Magnetostrictive technology to provide absolute position, repeatable to .001% of the sensing distance. The 955 eBrik™ is a cost effective linear sensing solution.

The streamlined anodized aluminum extrusion houses the sensing element and electronics. The magnet moves over the sensing element that determines the position and converts it to a readable output. The 955 eBrik™ is a self-contained unit and does not have a "can" or head assembly. All of the electronics are incorporated in the transducer, which is less than one inch tall.

Units can be ordered in span lengths up to 72 inches long in 1 inch increments. The slide magnet is designed to move effortlessly along the transducer in guide tracks, or a floating magnet assembly can be positioned above the unit. A variety of hardware is available for attaching the magnet slide to the moving portion of the process. The transducer can be ordered with 0 to 10 VDC or 4 to 20 mA output.

All units are provided with our standard 5 pin 12mm Euro Micro connector, mounting feet and magnet assembly. Mating cables are sold in various lengths and must be ordered separately.

The 955 eBrik™ has a few truly unique features. One feature is the LDT's auto-tuning capability, the ability to sense the distance between the magnet and the sensing surface and adjust its signal strength accordingly. As a bonus feature, the 955 eBrik™ offers Programmability, the ability to rescale the Zero and Span positions or invert the positions in the field. This is an optional feature and must be called out at time of order under the "Options" field. All units come fully programmed from the factory, are 100% absolute, and do not require reprogramming unless desired. There is a unique diagnostic that is built into the analog output on every unit. If there is a loss of magnet, or if the magnet assembly moves beyond the programmed range, the analog output will transmit a fault voltage or current, warning the host controller that it is out of range.

The transducer can be mounted vertically or horizontally using our mounting feet which slide on the lower part of the extrusion and clamp down when tightened. This packaging provides a compact and easy method of mounting for machine builders.

The 955 eBrik™ is designed for applications where economical continuous feedback is necessary. The sensor can be a cost effective replacement to linear potentiometers, limit and proximity sensors. Applications include presses, blow molding, injection molding, extruding, roll positioning, tire press, and many more.

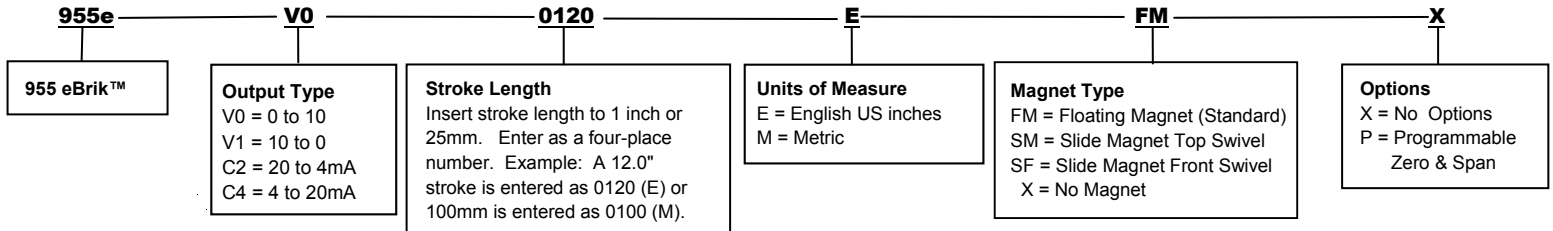


Specifications	
Input Voltage	24 VDC +/- 20%
Current Draw	1.1w (44 mA typical)
Output	0 to 10 VDC 10 to 0 VDC 4 to 20 mA 20 to 4 mA
Non-Linearity	Less than +/- 0.03% of stroke, or +/- 0.013" whichever is greater
Update Time	1 ms
Repeatability	.001%
Operating Temperature	-40° to 85° C
Span Length	1" to 72"
Null Zone	2.75"
Dead Zone	2.75"
Connectors	12mm Micro 5 Pin
Enclosure	IP67
Approvals	CE

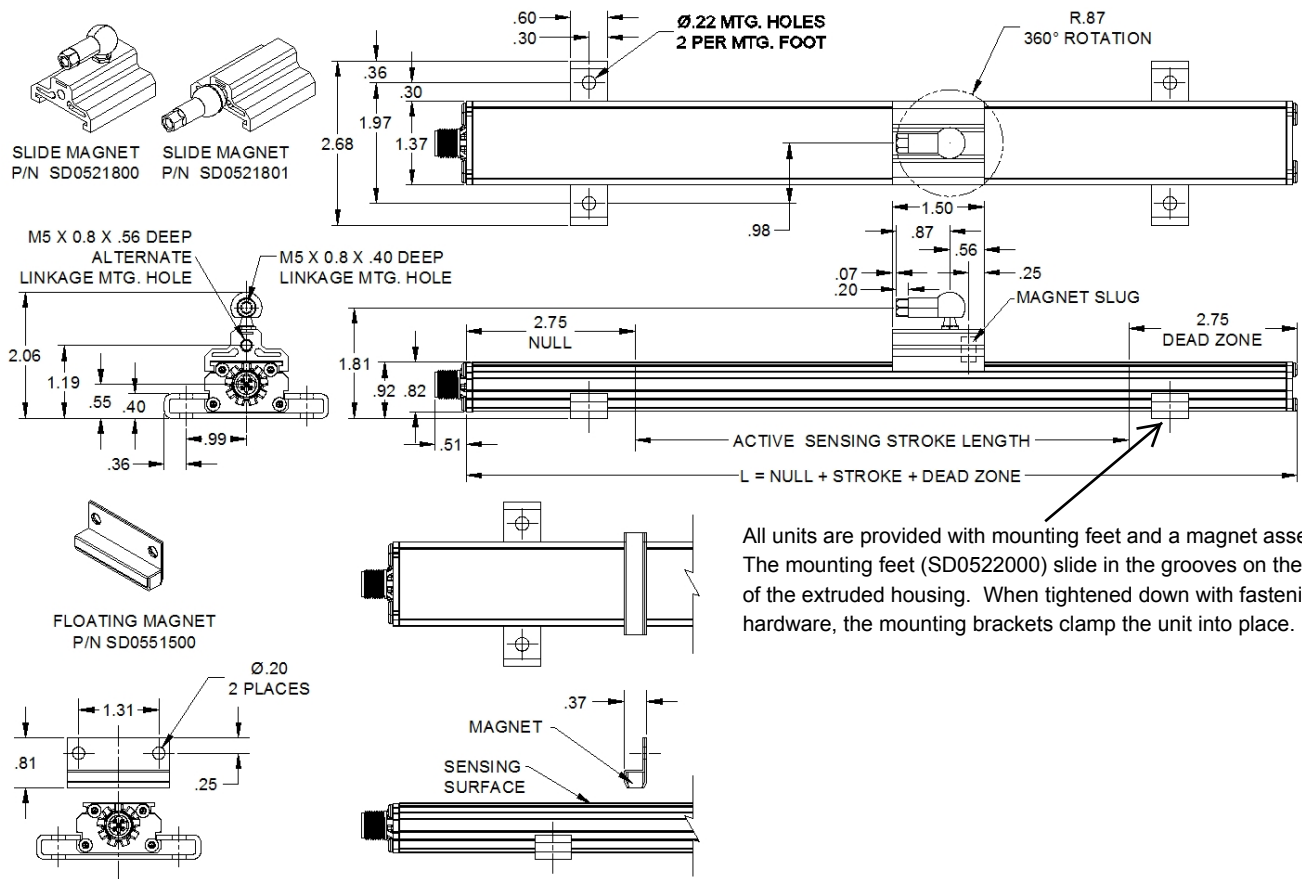
Specifications are subject to change without notice.

955 eBrik™

Part Numbering



Dimension Drawing

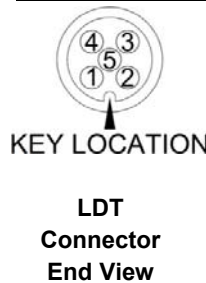


All units are provided with mounting feet and a magnet assembly. The mounting feet (SD0522000) slide in the grooves on the side of the extruded housing. When tightened down with fastening hardware, the mounting brackets clamp the unit into place.

Accessories

Item	Part Number
Slide Magnet	SD0521800
Slide Magnet Side Adapter	SD0521801
Large Float Magnet	SD0551500
Mounting Foot	SD0522000
6 Ft. Cable - Straight	949019L6
12 Ft. Cable - Straight	949019L12
6 Ft. Cable - Right Angle	949020L6
12 Ft. Cable - Right Angle	949020L12
Control Arm	955ARMXX (X = Inches)
Rod Ends	04-570252

Wiring Diagram



PIN NUMBER	FUNCTION	COLOR
1	+VDC POWER SUPPLY	BROWN
2	PROGRAM*	WHITE
3	POWER SUPPLY COMMON	BLUE
4	ANALOG OUT	BLACK
5	ANALOG COMMON	GRAY

*Optional feature must be specified in the part number at time of order.