



Rota is dedicated to providing its customers with highly reliable linear transducers that maximize hydraulic cylinder performance, without changing existing mounting lengths, maximizing uptime with the best vibration capability, whilst containing costs and improving your bottom line.

DISPLAY PANEL ONE



ROTA TRANSDUCERS

Redundant & Verification Transducers



ECE-R10 (Automotive Specification) Available



Dual Outputs Available



Field Replaceable Designs

LR SERIES

- Redundant transducer houses two entirely separate sensing circuits.
- Estimated MTTFd (70c) 11,000 years for 30" (750mm) stroke length.
- 99% safe failure fraction.
- LRF version capable of 10,500 psi (720 bar) working pressure.
- Triple redundant and Ex versions available.

LV SERIES



- Verification transducer has an additional array of Hall Effect sensors for checking and verifying the primary sensory circuit.
- 0.004" (0.1mm) resolution.
- Estimated MTTFd (70c) 6,300 years for 30" (750mm) stroke length.
- 99% safe failure fraction.
- Life length test over 45,000 hours!
- In series production with a major European truck manufacturer on a critical steering application.



ROTA TRANSDUCERS

Ex Transducers for Explosive Atmospheres



A Ex, IECEx and ATEX Approved



Absolute, Non-Contact Technology



High Shock & Vibration Capability

LK SERIES

- Explosive atmosphere transducer for Class 1, Zone 0 - more than 1000 hours.
- Intrinsically safe design.
- 2 wire 4-20 mA option.
- Very compact mounting head.
- Max stroke of 33 feet (10 meters).

LD SERIES



- Explosive atmosphere transducer for Class 1, Zone 1 - less than 1000 hours.
- No I.S barrier or galvanic isolator needed.
- New AEx mb encapsulation design eliminates large electronic enclosure.
- Option with Rota's patented DR4 connector allows removal without a hot work permit.
- Limited availability from April 2017.





ROTA TRANSDUCERS

Externally Mounted Transducers



No Cost to Gun Drill



Fast, Low Cost Maintenance



Sees Through Carbon Steel Walls

EL SERIES

- Sees through 1/2" (13mm) carbon steel wall.
- Absolute signal.
- Simple, low cost cylinder machining.
- Ideal for steering and long cylinders.
- ELC for compact carbon steel pistons.
- ELL for longer carbon steel cylinders
- ELA for aluminium pistons



ROTA TRANSDUCERS

Modular Design External Transducers



Up to 130 Feet in Length



Reduced Shipping Costs



End User Assembles On Site

ML SERIES

- Ideal for very long boom cylinders up to 1/2" (13mm) wall.
- Uses patented EL magnet technology.
- Simply bolts together.
- CANbus, voltage and current outputs.
- Solid state design replaces wire pull designs that become unreliable due to wire stretching in freezing and dirty conditions.



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DISPLAY PANEL THREE

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ROTA TRANSDUCERS

Internal Transducers



Maintain Pin to Pin Dimension



OEM or Field Installable / Re-Calibrateable



Very Robust, High Vibration Capability

25g RMS, 75g Sine at 2 hours of resonant frequency!

LA SERIES

- 5000 psi (350 bar) working pressure.
- Tiny SAE # 6 screw in head for mounting between clevis eyes.
- -40°+221°F operating temperature.
- CANbus outputs.
- New CT, 2mm resolution low cost option.
- New calibrateable option.
- High EMC rating up to 200V/m

LB SERIES

- 5450 psi (375 bar) working pressure.
- 304 stainless steel body up to 120" (3 meter) stroke.
- Compact welded LM option.
- Rotatable head option, allows 360° orientation of 90° M12 cables.

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ROTA TRANSDUCERS

High Pressure / R&D Transducers



Highly Customizable



Very Robust, High Vibration Capability



R&D Transducers used to test application feasibility

LU / LN SERIES

- Independantly pin mounted transducers.
- All 316 stainless steel construction.
- Subsea and Ex. Intrinsically safe versions.
- LU Heavy Duty - 200" (5 meter) stroke.
- LN Light Duty - 80" (2 meter) stroke.
- CANbus, current and voltage outputs.

LJ / LF SERIES

- High pressure in cylinder designs.
- LJ working pressure 7250 psi (500 bar).
- LF working pressure 10,500 psi (720 bar).
- Compact mounting fit easily into a cylinder.
- 0.004" (0.1mm) resolution up to 200" (5 meters).
- Max stroke 400" (10 meters).

DISPLAY PANEL FOUR

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ROTA TRANSDUCERS

Tank Level Transducers



3 in 1

Capable of Position, Velocity and Temperature



Up to 6.5 Feet in Length



High Accuracy

TL SERIES



- Robust all welded 304 stainless steel construction suitable for Diesel, Oils, Adblue and Agri chemicals.
- 0.008" (0.2mm) resolution option.
- -40° + 221°F operating temperature.
- Flange, thread or plain tube mounting.
- Threaded base tube support for high shock applications.

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ROTA TRANSDUCERS

Piston Accumulator Position Transducers



Transducer on the Outside



Fixed on Carbon Steel Wall



No Additional Seals

AC SERIES



- Suitable for carbon steel piston accumulators.
- Existing seals are not changed.
- Installed 360° magnet can rotate with the modified piston.
- No end-cap modification needed.
- Resolution 1/4" - 3/8" (6 -10mm)
- I.S. version for Ex atmospheres.
- Limited availability summer 2017



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