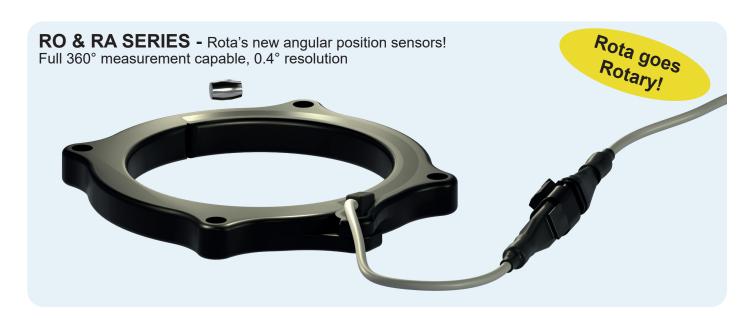
TRANSDUCER PRODUCT GUIDE

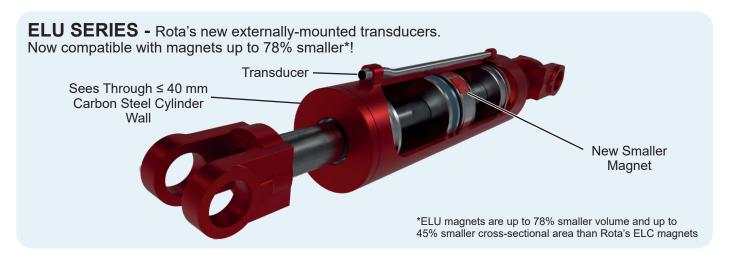
NEW SENSORS SPOTLIGHT



HA SERIES - Functional safety sensors ISO 13849 PLd (and SIL 2 coming later), CANbus Safety or Analogue outputs

Coming Soon!





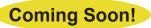
Rota is dedicated to providing its customers with highly reliable linear transducers, tank level sensors, and now rotary sensors!



TRANSDUCER PRODUCT GUIDE



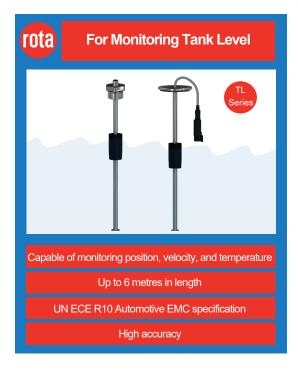
RO & RA SERIES



- Analogue Voltage/Current/PWM options
- CANbus SAE J1939, CANopen, and ISOBUS options
- Sizes available to fit around ≤ 3" or ≤ 5" shafts
- 316 Stainless steel subsea version available
- Two-piece retrofittable design:



Opens to fit around existing assembly!



TL SERIES



- Suitable for Diesel, Oils, Adblue, and Agri Chemicals etc.
- High resolution 0.3 mm design.
- IP69K unmated connectors!

TLT SERIES

- TLT CANbus version can also monitor temperature great for hydraulic tanks.
- Very cost-effective, eliminating a separate temperature sensor and mounting/assembly costs.
- -40 to 105°C operating temperature.

TLH SERIES

Larger tube design for harsher applications.

TRANSDUCER PRODUCT GUIDE



ELU SERIES

- Great serviceability
- Sees through ≤40 mm thick carbon steel cylinder wall.
- Up to 0.3 mm resolution.
- Can mount two sensors with one magnet to achieve redundancy.
- -40°C to +115°C operating oil temperature.
- Tested up to 20g RMS, with resonant frequencies held at 1g for 1 hour!
- Tested to and exceeds the following EMC ratings:
 - UN ECE Reg. 10.05: October 2014 (Automotive)
 - EN ISO 14982:2009 (Agricultural and Forestry Machinery)
 - ISO 13766:2018 (Earth-Moving and Building Construction Machinery)



ML SERIES

- Very compact connection joint, ideal for telescopic booms.
- Modular version simply bolts together.
- Short sections, easier to transport, stock and assemble.
- Available with an EL type magnet or an 'R' remote magnet.
- Absolute signal.

TRANSDUCER PRODUCT GUIDE



HA SERIES - Functional Safety



- ISO 13849 PLd (and SIL2 coming later)
- CANbus Safety or Analogue output
- Built-in self diagnostics
- The same dimensions as the well-establised LA series
- IP69K rated unmated connectors!

Coming Soon!

HM SERIES - Functional Safety

- 430 bar working pressure
- Up to 5.8 m stroke

LV SERIES

- Verification transducer has a second array of Hall-effect sensors for checking and verifying the primary circuit.
- 0.3 mm resolution.
- Exceedingly reliable over 150,000 supplied!



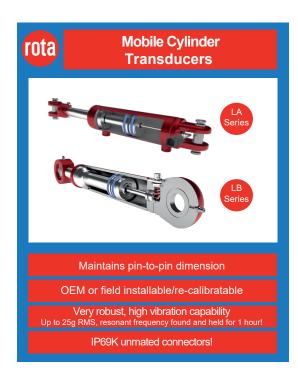
LR SERIES

- Redundant transducer houses two entirely separate sensing circuits.
- Two separate connectors and cables.
- Up to 20 metre stroke.
- Independently pin-mounted LUR option available see independently pin-mounted transducer section overleaf.

LQ SERIES

- Triple redundant transducer houses three entirely separate sensing circuits.
- Three separate connectors and cables.
- Up to 20 metre stroke.

TRANSDUCER PRODUCT GUIDE



LA SERIES



- 350 bar working pressure.
- Miniature M12 screw-in head for mounting between clevis eyes.
- UN ECE R10 Automotive EMC specification.
- IP69K unmated connectors!
- Aluminium build.

LB SERIES

- 375 bar working pressure.
- Stainless steel build.

LM SERIES 3



- Now 430 bar working pressure!
- Welded high-pressure stainless steel build.



LJ SERIES

- 500 bar working pressure.
- SSI Asynchronous option.
- Up to 20 metre stroke.
- High speed up to 8m/s.
- Very compact.

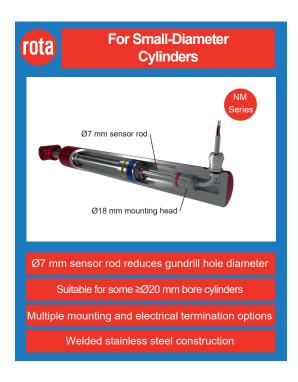
LJW SERIES

- Subsea transducers.
- Compatibile with a large variety of subsea connectors.
- 316 stainless steel build.
- 5000 metre depth rating.

LF SERIES

■ 720 bar working pressure, 1035 bar max. pressure test.

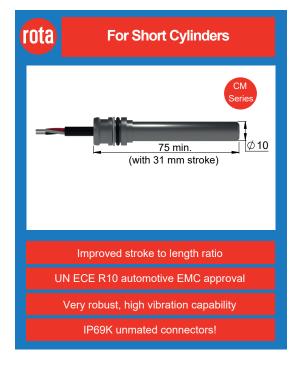
TRANSDUCER PRODUCT GUIDE



NM SERIES

Coming Soon!

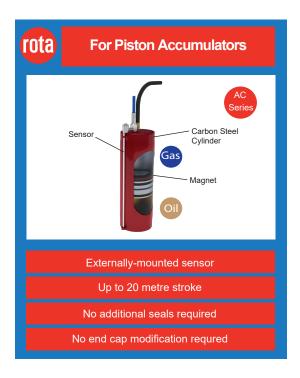
- Rota's narrowest sensor designs for some ≥Ø16 mm piston rods.
- Small-diameter mounting head options.
- M12 and M18 threaded mounting head options.
- 470 bar operating pressure.
- Approx. 735 mm max. stroke.
- IP69K unmated connector options!
- High vibration ratings and EMC ratings expected.



CM SERIES

- Rota's shortest sensor designs for the most compact cylinders.
- Up to 430 bar working pressure.
- Suitable for some ≥Ø20 mm piston rods.
- Absolute signal Analogue low voltage outputs available, with other analogue and CANbus outputs in development.
- Tested up to 25g RMS, with resonant frequencies held at 1g for 1 hour.
- Tested to the following EMC ratings:
 - UN ECE Reg. 10.05: October 2014 (Automotive)
 - EN ISO 14982:2009 (Agricultural and Forestry Machinery)
 - ISO 13766:2018 (Earth-Moving and Building Construction Machinery)

TRANSDUCER PRODUCT GUIDE



AC SERIES

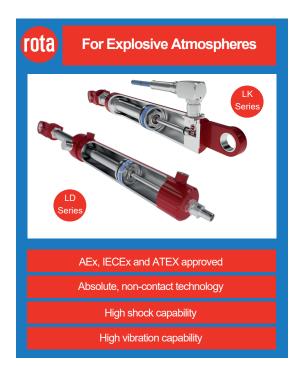
- Suitable for thick-wall carbon steel piston accumulators.
- Sees through 25 mm carbon steel wall.
- Solid-state design.
- Installed 360° magnet can rotate with modified piston.
- Versions for Subsea or Ex atmospheres.
- Resolution up to 4 mm.
- Suitable for thick-wall carbon steel hydraulic cylinders with limited crush load, pumps, or intensifiers with large diameter spigot.



LL/LN/LU SERIES

- LL Light duty aluiminium build.
- LL Ideal for high-volume, low-cost OEM applications.
- IP69K unmated connectors!
- LN Normal duty stainless steel build.
- LU Ultra-heavy duty stainless steel build.
- LU & LN Subsea & Ex. I.S. versions.
- LUR Two entirely separate sensing circuits for redundancy.

TRANSDUCER PRODUCT GUIDE



LK SERIES

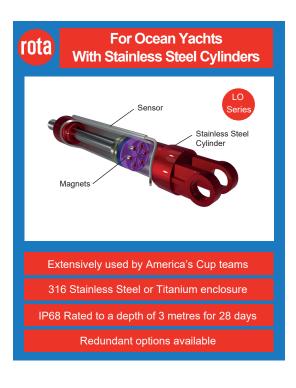
- 2 wire 4-20 mA absolute signal option.
- Suitable for Zones 0/1/2, ATEX Categories 1/2/3.
- Intrinsically safe design.
- Very compact mounting head options.
- Max. stroke of 10 metres.

LD SERIES

- 2 wire 4-20 mA absolute signal option.
- Explosive atmosphere transducer for Zones 1/2,
- ATEX Categories 2/3.
- No I.S. barrier or galvanic isolator needed.
- Very compact.

LZ SERIES

- Linear transducer with enclosed limit switches.
- Resistive output.
- Rotatable junction box for easy cable lay.
- No I.S. barrier or galvanic isolator needed.



LO SERIES

- Multiple magnet installation options.
- -30° to +70°C operating temperature range.
- Non-contact, zero-wear design with absolute signal.
- Industry leading random and sinusoidal vibration ratings
 including resonant frequencies.
- Common applications include:
 - · Traveller car position monitoring
 - · Jib inhaul/outhall position monitoring
 - · Rudder rake angle monitoring
 - · Daggerboard position monitoring
 - · Foil poision monitoring