



NEW SENSORS SPOTLIGHT

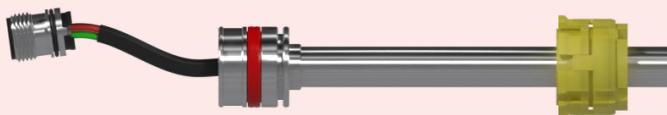
RO & RA SERIES - Rota's new angular position sensors!
Full 360° measurement capable, up to 0.2° resolution
Hinged design for easy installation



Rota goes Rotary!



HA SERIES - Functional safety sensors
ISO 13849 PLd, CANopen Safety output



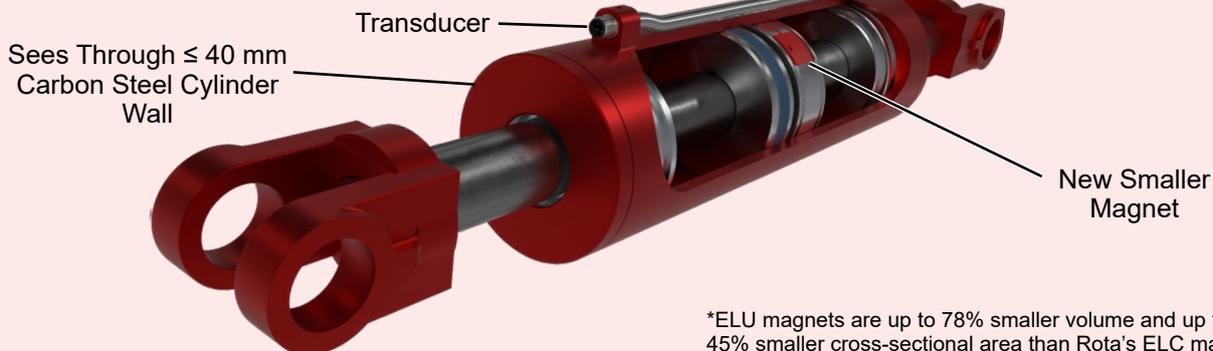
**Available
Summer
2026**

FA SERIES - Rota's most economical
sensor design!



**Available
Spring
2026**

ELU SERIES - Rota's new externally-mounted transducers.
Now compatible with magnets up to 78% smaller*!



*ELU magnets are up to 78% smaller volume and up to 45% smaller cross-sectional area than Rota's ELC magnets

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





TRANSDUCER PRODUCT GUIDE

New!

RA & RO SERIES

- Analogue Voltage/Current/PWM options
- CANbus SAE J1939, CANopen, and ISOBUS options
- Sizes available to fit around ≤ 3", ≤ 5", or ≤ 7" shafts
- Larger or custom sizes also available
- 316 Stainless steel subsea version available
- Two-piece retrofittable design:



Opens to fit around existing assembly!

- Half-moon design available for up to 160° measurement



Now Available
with temperature indication!

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



Rotational Measurement Transducers

RO Series
RA Series

Absolute non-contacting signal

Up to 0.2° resolution

Exceeds ECE R10 Automotive EMC Ratings

Continuous 360° measurement capable

For Monitoring Tank Level

TL Series

Capable of monitoring position, speed, and temperature

Up to 6 metres in length

UN ECE R10 Automotive EMC specification

High accuracy

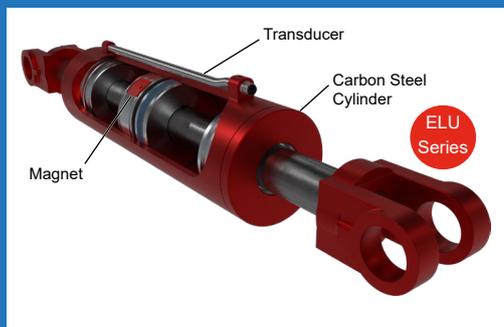


RELIABLE OPERATION TOUGH APPLICATION

Rota Limited, Manchester UK

www.rota-ltd.com
PRODUCT GUIDE V.11.5

Externally-Mounted Transducers



Easily field-replaceable for maximum machine uptime

The easiest, lowest-cost solution for a smart cylinder

No gun drilling cost

Ideal for steering and long cylinders

ELU SERIES

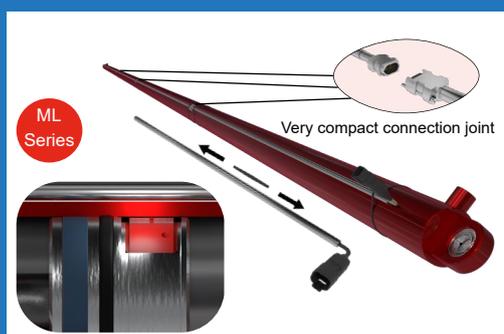
- Great serviceability
- Sees through ≤ 40 mm thick carbon steel cylinder wall
- Up to 0.3 mm resolution
- Can mount two sensors with one magnet to achieve redundancy
- -40°C to $+115^{\circ}\text{C}$ operating oil temperature
- Tested up to 20g RMS, with resonant frequencies held at 1g for 1 hour!
-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

Data sheet:



Click or Scan

Modular Transducers



Easy transportation in small sections

Solid state, only the magnet moves

Easy maintenance

Ideal for long cylinders up to 40 m

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

New!
Available Summer
2026



Safety-Related Transducers



HA Series

LV Series

Exceeds UN ECE R10 Automotive EMC Specification

Very compact

Up to 5.8 m stroke

Very robust, high vibration capability

HA SERIES - Functional Safety

- ISO 13849 PLd, CANopen Safety output
- Built-in self diagnostics
- Includes message counter and checksum for additional message verification
- IP69K rated unmated connectors!
- High vibration ratings including resonant frequencies expected



Data sheet:
Click or Scan

HM SERIES - Functional Safety

- 430 bar working pressure

LV SERIES

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



Data sheet:
Click or Scan



Redundant Transducers



LR Series

Dual or triple outputs

Separate sensor circuits

Separate power supplies

Separate connectors and cables

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



RELIABLE OPERATION TOUGH APPLICATION

Rota Limited, Manchester UK

www.rota-ltd.com
PRODUCT GUIDE V.11.5



TRANSDUCER PRODUCT GUIDE

Now Available
with temperature indication!



Mobile Cylinder Transducers



LA Series

LB Series

Maintains pin-to-pin dimension

OEM or field installable/re-calibratable

Very robust, high vibration capability
Up to 25g RMS, resonant frequency found and held for 1 hour!

IP69K unmated connectors!

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

New!

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

Data sheet:



Click or Scan



Industrial Cylinder Transducers



LJ Series

LF Series

CANbus and SSI Asynchronous output options

Very rugged design
Three different tube sizes available for different applications

Up to 0.05 mm resolution

High vibration capability
including resonant frequencies

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
- Compatible 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

Data sheet:



Click or Scan

Data sheet:



Click or Scan



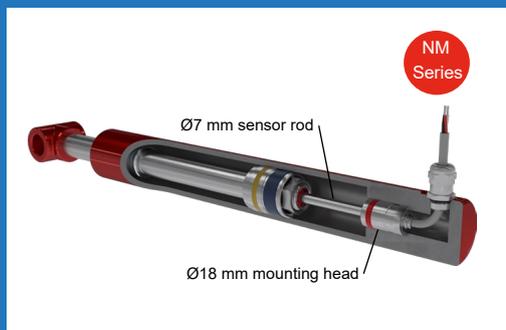
RELIABLE OPERATION TOUGH APPLICATION

Rota Limited, Manchester UK

www.rota-ltd.com
PRODUCT GUIDE V.11.5



For Small-Diameter Cylinders



Ø7 mm sensor rod reduces gundrill hole diameter

Suitable for some ≥Ø20 mm bore cylinders

Multiple mounting and electrical termination options

Welded stainless steel construction

NM SERIES

- Rota's narrowest sensor designs for some ≥Ø16 mm piston rods
- Up to 0.1 mm resolution
- Small-diameter mounting head options
- 1/2" SAE and M18 threaded mounting head options
- 470 bar operating pressure
- Approx. 735 mm max. stroke
- IP69K unmated connector options!
- High vibration ratings and EMC rating

Data sheet:



Click or Scan

CM SERIES

- Rota's shortest sensor designs for the most compact cylinders
- Suitable for some ≥Ø20 mm piston rods

New!
Available Spring 2026



New Generation Mobile Cylinder Transducers



More economical design

Simplified installation

Very robust, high vibration capability

IP69K unmated connectors!

FA SERIES

- Rota's most economical sensor design
- Improved non-linearity
- Easy-to-install double seal
- Absolute signal - Analogue and CANbus outputs
- High vibration ratings including resonant frequencies expected
- Tested to and exceeds the following EMC ratings:
 - UN ECE Reg. 10.05: (Automotive)
 - EN ISO 14982:2009 (Agricultural and Forestry Machinery)
 - ISO 13766:2018 (Earth-Moving and Building Construction Machinery)

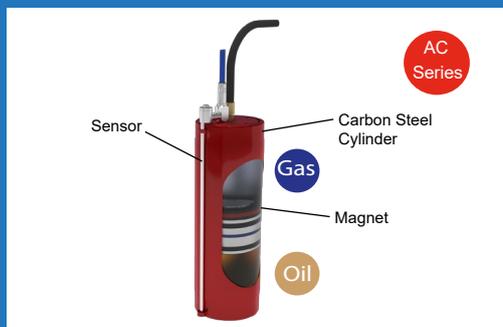
Data sheet:



Click or Scan



For Piston Accumulators



Externally-mounted sensor

Up to 20 metre stroke

No additional seals required

No end cap modification required

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

Data sheet:



Click or Scan

Independently Pin-Mounted Transducers



Short pin-to-pin length

Very robust, high vibration capacity

Highly customisable

UN ECE R10 Automotive EMC specification

LL/LN/LU SERIES

- LL - Light duty - aluminium 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

Data sheet:



Click or Scan

For Explosive Atmospheres



LK Series

LD Series

AEx, IECEx and ATEX approved

Absolute, non-contact technology

High shock capability

High vibration capability

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

Data sheet:



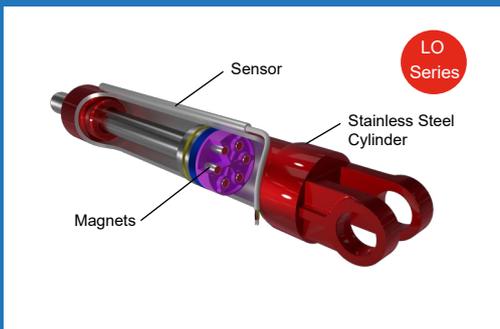
Click or Scan

Data sheet:



Click or Scan

For Ocean Yachts With Stainless Steel Cylinders



LO Series

Extensively used by America's Cup teams

316 Stainless Steel or Titanium enclosure

IP68 Rated to a depth of 3 metres for 28 days

Redundant options available

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 position monitoring

Data sheet:



Click or Scan