



TL TANK LEVEL TRANSDUCER - DATA SHEET



*Patented

The TL series liquid level transducer has been specifically designed for tank level in the mobile market to withstand both physical abuse and exposure to dust, water, chemicals, etc. It is ideally suited for fuel, hydraulic, chemical, ADBLue, lactic acid, and brine tanks of mobile machines.

BENEFITS

- Metric or SAE threads available as standard
- Custom designs available
- End user scaleable feature
- One sensor capable of voltage or current output

PERFORMANCE

- Better performance, 0.3 mm resolution
- Solid-state, zero wear, absolute signal
- Excellent shock and vibration resistance (including resonant frequencies)
- Operating temperature -40°C to 105°C (-40°F to 221°F)
- Excellent EMC approval

ENCLOSURE

- Welded 304 stainless steel as standard
- Tube OD 9.6 mm up to 730 stroke, 10 mm thereafter
- 16 mm OD TLH option
- Strokes of up to 6 metres available
- Aluminium option, tube OD 10 mm, max. stroke 730 mm

OUTPUTS

- Analogue Voltage/Current/PWM options
- CANbus SAE J1939, CANopen and ISOBUS

TERMINATION

- Deutsch DT & DTM
- M12
- AMP

Subject to reasonable modifications due to technical advances



RELIABLE OPERATION TOUGH APPLICATION



HOW TO ORDER

TL E N 1448 PW 0.3 G 3RT N 0.15 M8 L 1234

TL Series Transducer

Tube Option

Blank = Standard 304/316 stainless steel, 9.6 mm OD <730 stroke, 10 mm OD ≥730 mm stroke

A = 10 mm OD Aluminium 6082 T6 (aluminium tubes require PM tube support)

H = 16 mm OD Stainless 304/316 (TLH tubes require PW float)

Mounting Configuration

Heads for 9.6 mm & 10 mm OD Tubes

Float needs other entry hole:

B = SAE #8

D = M18

G = 1/2" BSPP

P = Plain Tube

Float can utilise existing entry hole:

E = SAE #16 (304 Only)

F = Five-hole flange (304 Only)

M = M33 (304 Only)

Q = Four-hole flange (304 Only)

Heads for 16 mm OD Tubes

Float needs other entry hole:

A = 3/4" BSPP

E = SAE #12

F = Five-hole flange

M = M27

Gasket/O-rings

N = Nitrile

V = Viton

Stroke = Up to 730mm for Aluminium
Up to 6000mm for 304

Float

PW = Polypropylene

BW = Buna (not available for TLH)

Resolution

0.3 = 0.3 mm

Output Signal

A = Current 4 to 20 mA (3 Wire)

B = Current 4 to 20 mA (3 Wire)

BU = Current 4 to 20 mA & Voltage 1.0 to 5.0 V

C = Voltage 0.5 to 3.5 V

F = Voltage 0.25 to 4.75 V

G = Voltage 0.5 to 4.5 V

H = Voltage 0.5 to 10.0 V

J = CANbus SAE J1939 - CCJ form to be completed*

L = Voltage 0.5 to 4.5 V

O = CANopen - CCO form to be completed*

P = P.W.M 550 Hz

T = Current 4 to 20 mA (2 Wire)

V = Voltage 0.5 to 5.0 V

Z = ISOBUS - CCZ form to be completed*

*Ask Rota for this form

(For CANbus Transducer Test Kit, order Rota part number LJ 2914)

Unique Transducer Calibration Number

Optional Float Stopper

L = Float stopper at head end (304 only)

Optional Tube Support

Blank = no support (304 only - up to 730 mm for TL, TBD for TLH)

PM = Plain mounted support

(not available for TLH)

M8 = M8 x 10 mount support (304 Only)

Cable Length (m)

standard lengths: 0.15, 0.3, 0.4, 0.5, 1.0, 1.5, & 2.0 m

Electrical Termination

N = PVC Cable - Unscreened

U = PUR Cable - Unscreened

Connectors

2RT/2RC = Deutsch DT04-2P with Rota contacts

3RT/3RC = Deutsch DT04-3P with Rota contacts

4RT/4RC = Deutsch DT04-4P with Rota contacts

6RT/6RC = Deutsch DT04-6P with Rota contacts

2RM/2RCM = Deutsch DTM04-2P with Rota contacts

3RM/3RCM = Deutsch DTM04-3P with Rota contacts

4RM/4RCM = Deutsch DTM04-4P with Rota contacts

6RM/6RCM = Deutsch DTM04-6P with Rota contacts

2UP/2UC = AMP 282104-1

3UP/3UC = AMP 282105-1

4UP/4UC = AMP 282106-1

5UP/5UC = AMP 282107-1

6UP/6UC = AMP 282108-1

J = M12 Integral connector (B/D/F/G/M Mounting Configurations only)(not available for TLH)

4MH = Harness with M12 connector

5MH = Harness with M12 connector

4M9 = Harness with 90° M12 connector

5M9 = Harness with 90° M12 connector

Optional

R = Reversible Signal

Patents

CNZL201580063891.8

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KR10-1960719

JP 6713457

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