

Subsea Linear Position Transmitter

Configured for cylinder, actuator and gate travel. A fixed sensor tube reads a rod-mounted magnet carrier, providing position feedback in defined steps. Select a starting configuration below, then tailor the mounting, stroke, materials and cable assembly to your installation.



Illustrative configuration; final geometry to drawing.

OVERALL SPECIFICATION¹

Parameter	Series overview
Sensing method	External magnetic target; resistive network with stepped position feedback
Stroke range	50-2,000 mm target; proposed 50 mm increments
Linearity / repeatability	±5 mm / ±2 mm targets
Resolution	10 mm element pitch; 5 mm overlap resolution objective
Magnet gap / speed	3-15 mm / 1 m/s targets
Sensor tube	Ø16 mm proposed; length to stroke and drawing
External pressure	690 bar design target
Temperature	Passive: -40 to +85 °C Conditioned: -20 to +70 °C
Output / supply	R: external conditioning I: 10-30 VDC target V: 12-30 VDC target

PART-NUMBER MATRIX

DL-LP - [STROKE] - [OUTPUT] - [MATERIAL] - N6 - [CABLE] - [CONTACTS]

STANDARD SELECTIONS & CUSTOM OPTIONS

Field	Code	Selection
Stroke / mm	0250 / 0500 / 1000 1500 / 2000 / CUST	250 / 500 / 1,000 / 1,500 / 2,000 mm. CUST: specify another required stroke.
Output	R / I / V	R: passive resistive, 3-wire I: 4-20 mA, 2-wire; V: 0-10 V, 3-wire
Housing	SS / TI / IN / MO	316L stainless steel / titanium / Inconel / Monel. Exact exotic alloy grade subject to agreement.
Connector	N6	Nano circular 6-pin subsea interface. Mating pair and pin allocation to drawing.
Cable assembly	SE / DE / CT	Single-ended to free leads / double-ended / custom termination. Specify cable length separately.
End contacts	0 / A2	None / 2 × Form A, shared common. A2 requires output, load and pin-allocation review.

Configuration example: DL-LP-0500-I-SS-N6-SE-0 = 500 mm stroke, 4-20 mA, 316L body, Nano 6-pin, single-ended cable, no end contacts.

¹ Numerical figures are preliminary design targets, not qualified ratings. Use the matrix to specify your required configuration. Cable length, target, mounting, option compatibility and final assembly details are confirmed on the quotation and drawing. Hydraulic pressure and external water pressure are separate requirements.