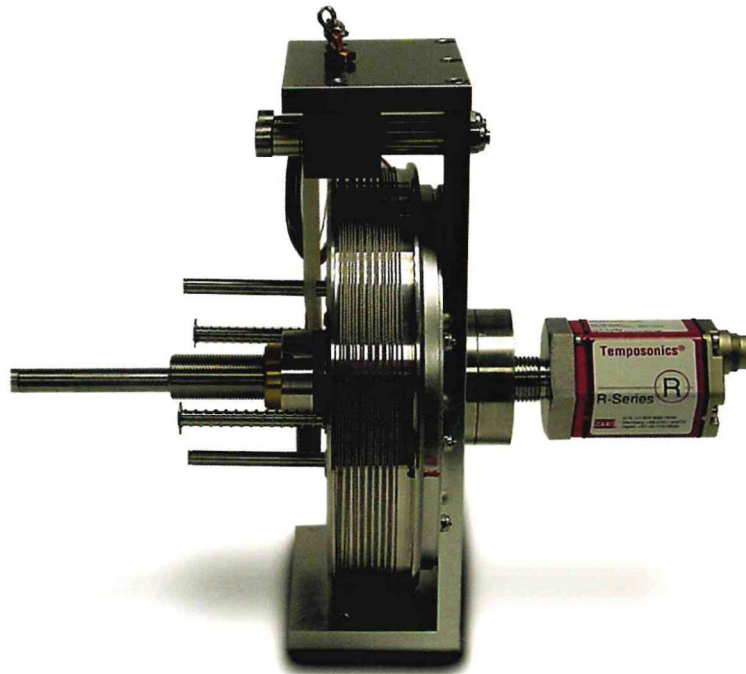


Control Products, Inc.

Long Stroke Draw Wire Systems Application Overview

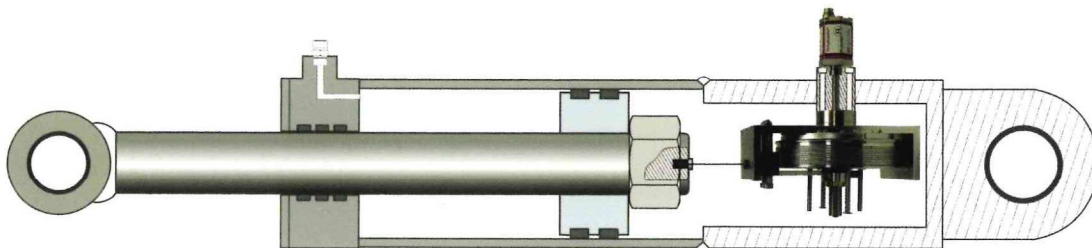


CPI®

www.cpi-nj.com



CPI's patented linear-to-rotary-to-linear technology leverages highly developed magnetostrictive sensors to provide long-stroke draw wire sensor systems for use in off-shore applications. Draw wire core component materials are specified for extreme precision, high cycle life and long-term operation in almost any medium. Virtually any signal output is offered via industry standard signal interfaces. Standard and application-specific mounting and enclosure configurations are available.



Product Platforms

Base Part Number	Maximum Extension	Power springs	Construction
SL2000	10M	1	direct drive
SL3000	12M	1	direct drive
SL4000	14M	1	direct drive
SL6000	30M	4	reduction drive

Position Sensing for:

- Long-stroke hydraulic cylinders
- Telescoping cylinders
- Piston accumulators

**Internal or external mount*

Draw Wire Sensors for Hazardous Environments

ATEX

IECEx

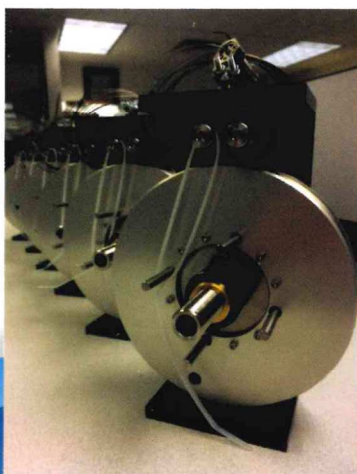
SIL2

Triple Redundancy

Subsea Draw Wire Sensors

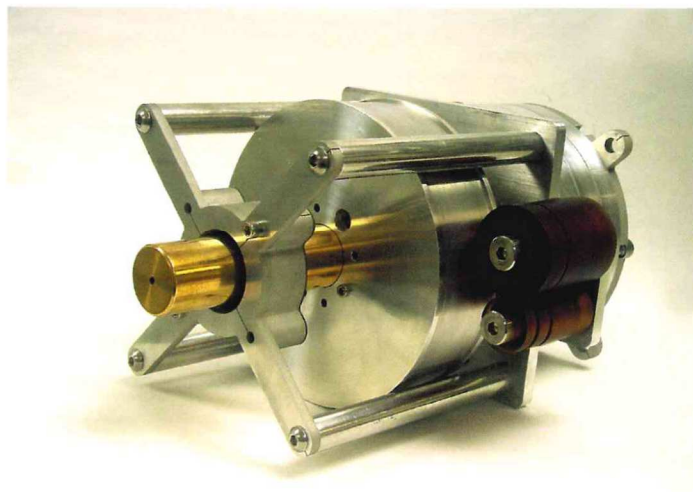
Submersible to 3,000 M

Stroke lengths to 30M



General Specifications

Measurement	absolute position
Resolution	+/-5mm
Operating voltage	24VDC
Current consumption	100mA typical
Minimum/maximum load	0 / 500 ohms
Dielectric strength	700 VDC
Polarity protection	up to -30 VDC
Overvoltage protection	up to 36 VDC
Electromagnetic emission	IEC/EN 61326-1 (Class B)
Electromagnetic immunity	IEC/EN 61326-3-2 (Class B)
Temperature Range	-40C to 80C
Operating pressure	350 bar static
Cycle endurance	application dependent
Output	4-20mA
Measurement cable	corrosion resistant 18-8 stainless steel



Draw wire core



heave compensation * rig raisers * motion monitoring and control * platform positioning * crane control * dynamic positioning systems * drill string motion monitoring

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