Smart Cylinder Position Sensing

COMPACT TRANSDUCER
Integrated into Cap End Cover with Minimal Overall Length Addition
Precise, Durable & Cost Effective
Linear, Absolute Position Measurement
Absolute Displacement Sensor, Non-Contact Sensing
Electronics Totally Enclosed from Harsh/Shock Prone Environments

LINEAR TRANSDUCER
External Transducer Drive Mounted on Cap End
Sensing Anywhere Along the Cylinder Stroke
Linear Position Sensors Provide Accurate, Non-Contact Position Sensor Housing with Integral Electronics
Suitable for Most In-Cylinder Position Sensing Applications

IN-PORT PROXIMITY SWITCH
Non-Contact Piston Position Sensing at Near End of Stroke
Precision Machined End Caps & Piston Cushion Hubs allow for
In-Port Mounting of “RF Inductive” Proximity Switches using the
SAME Switch Probe Length on both the Front & Rear End Caps
without Shims or Spacers underneath the Switch

TIE-ROD PROXIMITY SWITCH
Tie-Rod Mounted Proximity Switches will sense a Magnet Attached
to the Piston anywhere along the stroke of the Aluminum Body Cylinder
Peninsular uses Shunted, High Gauss “Rare Earth Material”
Magnets that create a Stronger Magnetism outside the Cylinder Tube
which assures reliable actuation of the Proximity Switch

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Use this checklist to help us determine the type of Position Transducer needed for your application. Fill in the below information and return it to Peninsular or call the Factory for assistance.

### PERFORMANCE
- Mechanical Stroke: __________________
- Measurement Stroke: __________________
- Maximum Pressure: __________________
- Desired Repeatability: __________________
- Desired Resolution: __________________
- Maximum Velocity: __________________

### ENVIRONMENT
- Type of Application: 
  - [ ] Industrial
  - [ ] Mobile
  - [ ] Laboratory
  - [ ] Other
- Fluid Type: __________________
- Fluid Operating Temp: __________________
- Fluid Ambient Storage Temp: __________________
- Vibration: 
  - [ ] Low
  - [ ] Med
  - [ ] High
- Shock: 
  - [ ] Low
  - [ ] Med
  - [ ] High
- Humidity: __________________
- Exposure: __________________
- Other Environment Hazards: __________________
  - __________________

### ELECTRICAL
- Input (excitation): ___AC ___DC ___Other
- Output Required: ___mV ___V ___4-20MA
  - ___Hz ___CPC/CPR

### CORDSETS
- Length in Inches: ________________
- Length in Feet: ________________
- Length in Meters: ________________

Several technologies & devices are available to provide load position information to fluid power control systems. The Transducer provides a signal out which will require a PLC & Servo Valve to complete a “Closed Loop Feedback System”