

Position Sensing Hydraulic Cylinders

Position Sensing Technology is ideal for applications that require a high level of accuracy and repeatability. Texas Hydraulics will work with you to provide the position sensing solution best suited to your application requirements. Whether high precision, redundancy, or field serviceability is your main concern, Texas Hydraulics has the experience and industry knowledge to work with you to provide the cutting edge in cylinder technology to your customers.

Product Description

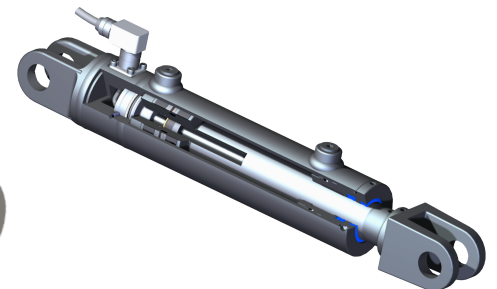
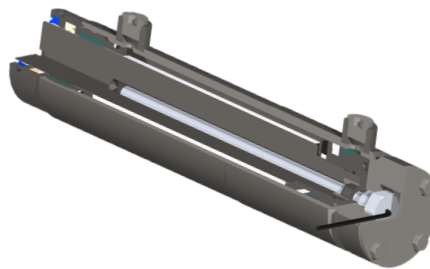
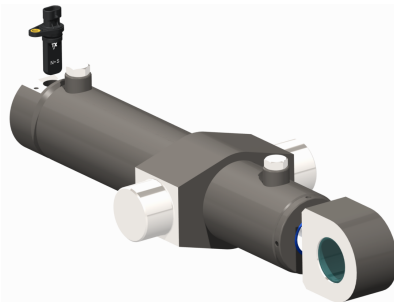
- High Performance Contactless Sensing
- Analog Voltage Output Proportional to Cylinder Stroke
- Electromagnetic Compatibility: Immunity Against Electromagnetic HF-Fields up to 200 V/m
- Stroke Range: 2" - 300" / 50 mm – 7,620 mm
- Repeatability: As low as 0.005%
- Minimum Rod Diameter: 1" / 25 mm
- Operating Pressures up to 5,000 psi / 350 bar
- M12 Connector

Optional Features

- Alternate Output Types for Tighter Control: Digital, CAN-bus
- PWM or Current Output
- Additional Linear Position Connector Types Available
- Position Sensing Technology Available on Multiple THI Cylinder Styles

Application Examples

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| Measure | Hall Bridge MARS | Hall Array | Magnetostrictive |
|--------------------|----------------------|-----------------------|-----------------------|
| Typical Accuracy | 1.5 mm | 0-5 mm | 0-2 mm |
| Ingress Protection | IP67/IP69K | IP67/IP69K | IP67/IP69K |
| Field Serviceable | Yes | No | No |
| Standard Lengths* | Up to 48" / 1,219 mm | Up to 120" / 3,048 mm | Up to 300" / 7,620 mm |
| Temperature | -40° to 221°F | -40° to 221°F | -40° to 221°F |
| Input | 5 Vdc | 9-32 Vdc | 8-32 Vdc |
| Output | 0.5 -4.5 Vdc | Various | Various |

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