

Honeywell Sensing and Control

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FS01 Force Sensors

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FS01/FS03 Series force transducer, compensated, amplified, 0 lb to 1.5 lb force range

Actual product appearance may vary.

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Description

The FS01/FS03 Series sensors are a special low cost, piezoresistive-based force sensor. These high-level voltage output, calibrated, and temperature compensated sensors give an accurate and stable output over a 5 °C to 50 °C [41 °F to 122 °F] temperature range. They offer simple operation from a single 5.0 Vdc supply. Operation from any dc supply voltage, up to 12.0 Vdc, is acceptable.

These sensors feature an integrated circuit sensor element and laser-trimmed thick-film ceramic in a small plastic housing. Their extremely small size enables the use of multiple sensors in limited available space. This package also provides excellent corrosion resistance and isolation to external package stress.

Features

Features

- 0 lb to 1.5 lb and 0 lb to 3.0 lb ranges
- High-level output range
- Temperature compensated
- Calibrated zero and span
- Small size
- Zero noise

Potential Applications

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- Medical infusion pumps
- Ambulatory noninvasive pump pressure
- Occlusion detection
- Kidney dialysis machines
- Load and compression sensing
- Variable tensions control