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FS03



Actual product appearance may vary.

FS01/FS03 Series force transducer, compensated, amplified, 0 lb to 3.0 lb force range

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

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

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.

Supporting Documentation

[Dimensions](#)

[Installation Instructions](#)

Product Specifications	
Sensitivity	Laser trimmed outputs: 2.85 V min., 3.00 V typ., 3.15 V max.
Operating Force (O.F.)	3.0 lb
Supply Voltage	5.0 Vdc typ., 12.0 Vdc max.
Null Offset	1.0 Vdc ± 0.05 Vdc
Linearity	1.0 typ., 3.0 max. %FS, Best Fit Straight Line
Null Shift over Temperature	2.5 max. %FS over comp range, ref to 27 °C
Sensitivity Shift over Temperature	2.5 max. %FS over comp range, ref to 27 °C
Overforce	7 lb
Compensated Temperature Range	5 °C to 50 °C [41 °F to 122 °F]
Operating Temperature Range	0 °C to 70 °C [32 °F to 158 °F]
Storage Temperature Range	-20 °C to 85 °C [13 °F to 185 °F]
Solderability	2 s to 4 s @ 220 °C
Availability	Global
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Series Name	FS01/FS03

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