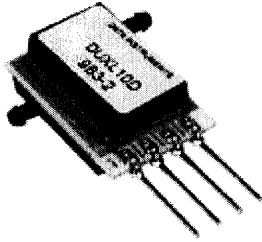


**Honeywell**

FARNELL CODE 3106986



*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*

## DUXL01D

**Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range:  $\pm 1.0$  in H<sub>2</sub>O; Port Style: Barbed**

### Features

- Low cost/Small size
- Uncompensated/High Sensitivity
- Gage and Differential Pressure Ranges
- Pressure Ranges 1 inch H<sub>2</sub>O through 30 inches H<sub>2</sub>O
- Operating Temperature Range -25 °C to 85 °C [-13 °F to 185 °F]

### Typical Applications

- Handheld Instrumentation
- Airflow Controllers
- Medical Monitors
- Smart Microvalves And Switches
- Level Indicators

### Description

The SURSENSE™ line of ultra low pressure sensors is based upon a proprietary, patented technology designed to reduce all output offset or common mode errors. These sensors utilize a silicon, micromachined sensing element which features a unique stress concentration enhanced structure to provide a highly stable linear output that is proportional to applied pressure. Output offset errors due to changes in temperature, warm-up, long term stability and position sensitivity have all been significantly reduced when compared to conventional sensors. The DUXL Series sensors provide a ratiometric millivolt output and are housed in a low profile miniature ported package. These sensors are intended for those applications where customized external signal conditioning is required or available from other sources. The low profile outline is ideal for portable applications where small size is critical.

Product is patented by US patent 6023978.

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## DUXL01D

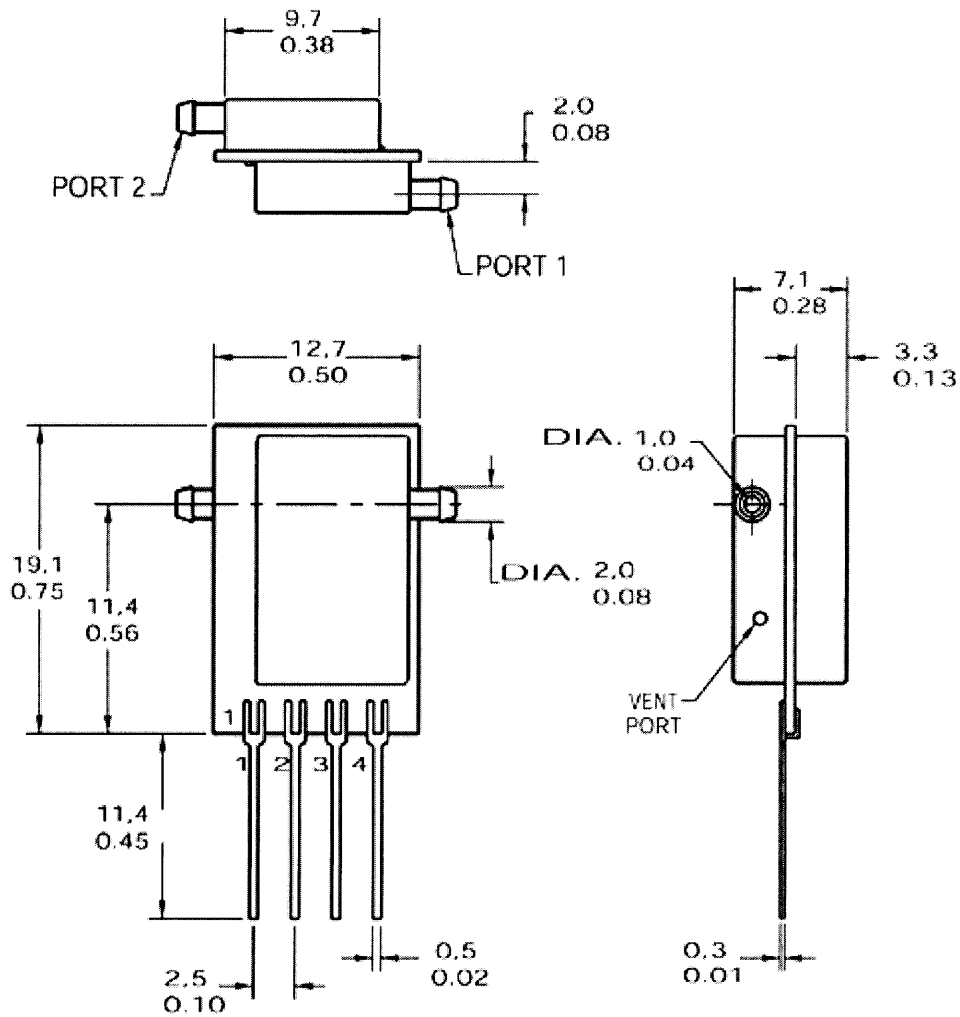
**Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 1.0 in H<sub>2</sub>O; Port Style: Barbed**

Product Specifications	
<b>Measurement Type</b>	Gage, Differential, Vacuum Gage
<b>Signal Conditioning</b>	Unamplified
<b>Pressure Range</b>	± 1.0 in H <sub>2</sub> O
<b>Maximum Overpressure</b>	100 in H <sub>2</sub> O
<b>Supply Voltage</b>	4.5 Vdc typ., 8.0 Vdc max.
<b>Compensated</b>	Yes
<b>Output Calibration</b>	Yes
<b>Termination</b>	PCB
<b>Port Style</b>	Barbed
<b>Package Style</b>	Honeywell DI-DUXL
<b>Typical Sensitivity</b>	6 mV/in H <sub>2</sub> O
<b>Full Scale Span</b>	6 mV typ.
<b>Null Offset</b>	0 mV typ.
<b>Null Shift over Temperature</b>	100 µV typ.
<b>Span Shift Over Temperature</b>	100 µV typ.
<b>Operating Temperature Range</b>	-25 °C to 85 °C [-13 °F to 185 °F]
<b>Storage Temperature Range</b>	-40 °C to 125 °C [-40 °F to 257 °F]
<b>Media Compatibility</b>	P2 port: DRY GASES ONLY: Media must be compatible with epoxy based adhesive. P1 port: Wetted materials; Media must be compatible with nylon housing, epoxy adhesive and silicon.
<b>Linearity, Hysteresis Error</b>	± 1% Span
<b>UNSPSC Code</b>	411121
<b>UNSPSC Commodity</b>	411121 Transducers
<b>Availability</b>	Global
<b>Series Name</b>	DUXL Series

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## DUXL01D

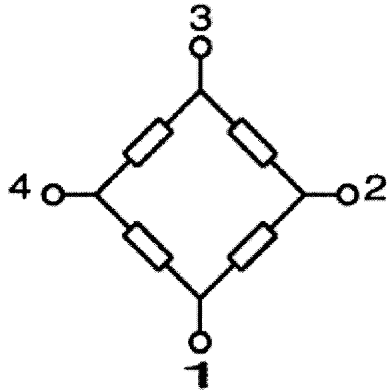
**Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range:  $\pm 1.0$  in H<sub>2</sub>O; Port Style: Barbed**



# Honeywell

## DUXL01D

**Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range:  $\pm 1.0$  in H<sub>2</sub>O; Port Style: Barbed**



EQUIVALENT CIRCUIT

### PIN DESIGNATIONS

1. -V Excitation
2. + Output Signal
3. + V Excitation
4. - Output Signal

# Honeywell

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## DUXL01D

**Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range:  $\pm 1.0$  in H<sub>2</sub>O; Port Style: Barbed**

### **WARNING**

#### **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

### **WARNING**

#### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

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