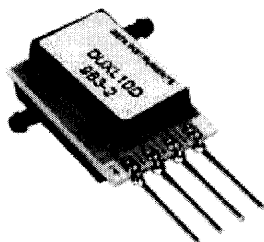


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FARNELL CODE 3107024



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.

DUXL30D

Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 30.0 in H₂O; Port Style: Barbed

Features

- Low cost/Small size
- Uncompensated/High Sensitivity
- Gage and Differential Pressure Ranges
- Pressure Ranges 1 inch H₂O through 30 inches H₂O
- 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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DUXL30D

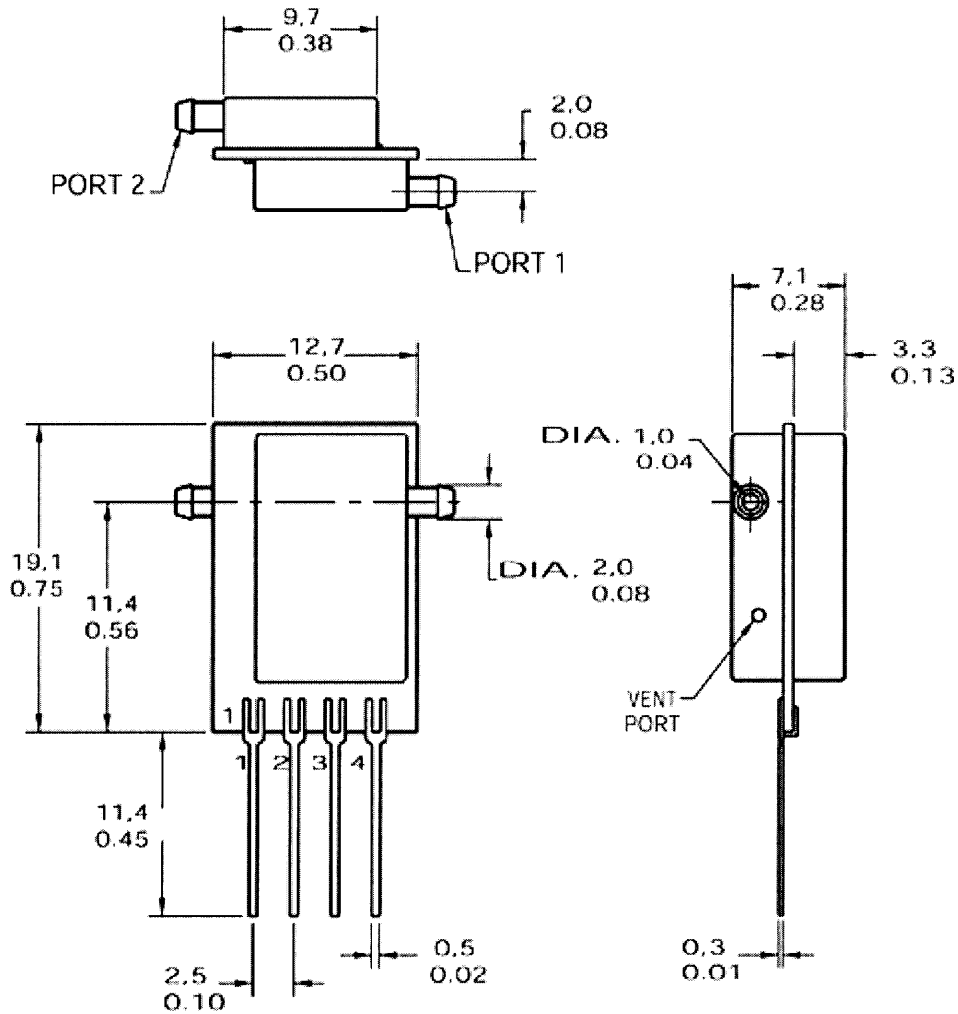
Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 30.0 in H₂O; Port Style: Barbed

Product Specifications	
Measurement Type	Gage, Differential, Vacuum Gage
Signal Conditioning	Unamplified
Pressure Range	± 30.0 in H ₂ O
Maximum Overpressure	300 in H ₂ O
Supply Voltage	4.5 Vdc typ., 8.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Termination	PCB
Port Style	Barbed
Package Style	Honeywell DI-DUXL
Typical Sensitivity	1 mV/in H ₂ O
Full Scale Span	30 mV typ.
Null Offset	0 mV typ.
Null Shift over Temperature	100 µV typ.
Span Shift Over Temperature	100 µV typ.
Operating Temperature Range	-25 °C to 85 °C [-13 °F to 185 °F]
Storage Temperature Range	-40 °C to 125 °C [-40 °F to 257 °F]
Media Compatibility	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.
Linearity, Hysteresis Error	± 1% Span
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	DUXL Series

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DUXL30D

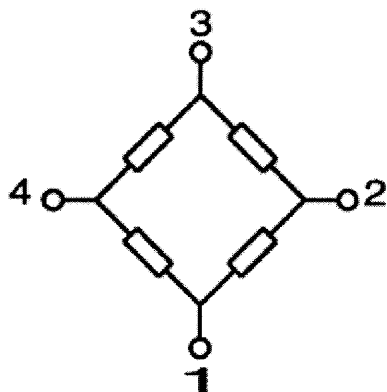
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DUXL30D

Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 30.0 in H₂O; Port Style: Barbed



EQUIVALENT CIRCUIT

PIN DESIGNATIONS

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

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DUXL30D

Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 30.0 in H₂O; 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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