

(SDCxxxxxy – A) to allow optimization of accuracy and cost in any given application.

The SDX devices feature an integrated circuit (IC) sensor element and laser trimmed thick film ceramic housed in a compact solvent resistant case. The package is a double-wide (i.e. 0.600 inches lead spacing) dual-inline package (DIP). This is the same familiar package used by IC manufacturers except it is only 11,94 mm [0.470 in] long and has a pressure port(s). The pc board area used by each DIP is approximately 0.26 in x 0.26 in. This extremely small size enables the use of multiple sensors in limited available space. The DIP provides excellent corrosion resistance and isolation to external package stress.

The DIP mounts on a pc board like a standard IC with through-hole pins. The pins anchor the pressure sensor to the pc board and provide a more secure and stable unit than other types of packages. The output of the bridge is ratiometric to the supply voltage and operation from any Vdc supply voltage up to 20 Vdc is acceptable.



## SDX05D4

**Pressure Sensors: Measurement Type: Differential, Gage; 0 psid to 5 psid, Temperature Compensated Sensor, "D4" DIP Package - Straight Port**

Product Specifications	
Measurement Type	Gage, Differential
Signal Conditioning	Unamplified
Pressure Range	0 psid to 5 psid
Maximum Overpressure	20 psid
Supply Voltage	20 Vdc max.
Compensated	Yes
Output Calibration	Yes
Response Time	100 $\mu$ S
Termination	PCB
Port Style	Straight
Package Style	A4/D4 DIP

<b>Full Scale Span</b>	57.90 mV min, 60.00 mV typ., 62.10 mV max.
<b>Null Shift over Temperature</b>	$\pm 0.2$ % FS span typ., $\pm 1.0$ % FS span max.; 0 °C to 50 °C [32 °F to 122 °F]
<b>Span Shift Over Temperature</b>	$\pm 0.4$ % FS span typ., $\pm 2.0$ % FS span max.; 0 °C to 50 °C [32 °F to 122 °F]
<b>Zero Pressure Offset</b>	-1.0 mV min., 0.0 mV typ., 1.0 mV max.
<b>Linearity, Hysteresis Error</b>	$\pm 0.2$ typ. $\pm 1.0$ max. %FS
<b>Repeatability</b>	$\pm 0.2$ % span typ., $\pm 0.5$ % span max.
<b>Input Resistance</b>	4.0 kOhms typ.
<b>Output Resistance</b>	4.0 kOhms typ.
<b>Operating Temperature Range</b>	-40 °C to 85 °C [-40 °F to 185 °F]
<b>Compensated Temperature Range</b>	0 °C to 50 °C [32 °F to 122 °F]
<b>Storage Temperature Range</b>	-55 °C to 125 °C [-67 °F to 257 °F]
<b>Media Compatibility</b>	Clean, dry gases only
<b>UNSPSC Code</b>	411121
<b>UNSPSC Commodity</b>	411121 Transducers
<b>Comment</b>	Lead Temperature Soldering 2 s to 4 s at 250 °C [482 °F]
<b>Availability</b>	Global
<b>Series Name</b>	SDX Series

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Technical drawing of a mechanical assembly with dimensions in typographical units. The drawing shows a side view of a component with a circular feature on the left and a series of vertical lines on the right. Dimensions are provided in typographical units (typ.) and their corresponding metric values in brackets.

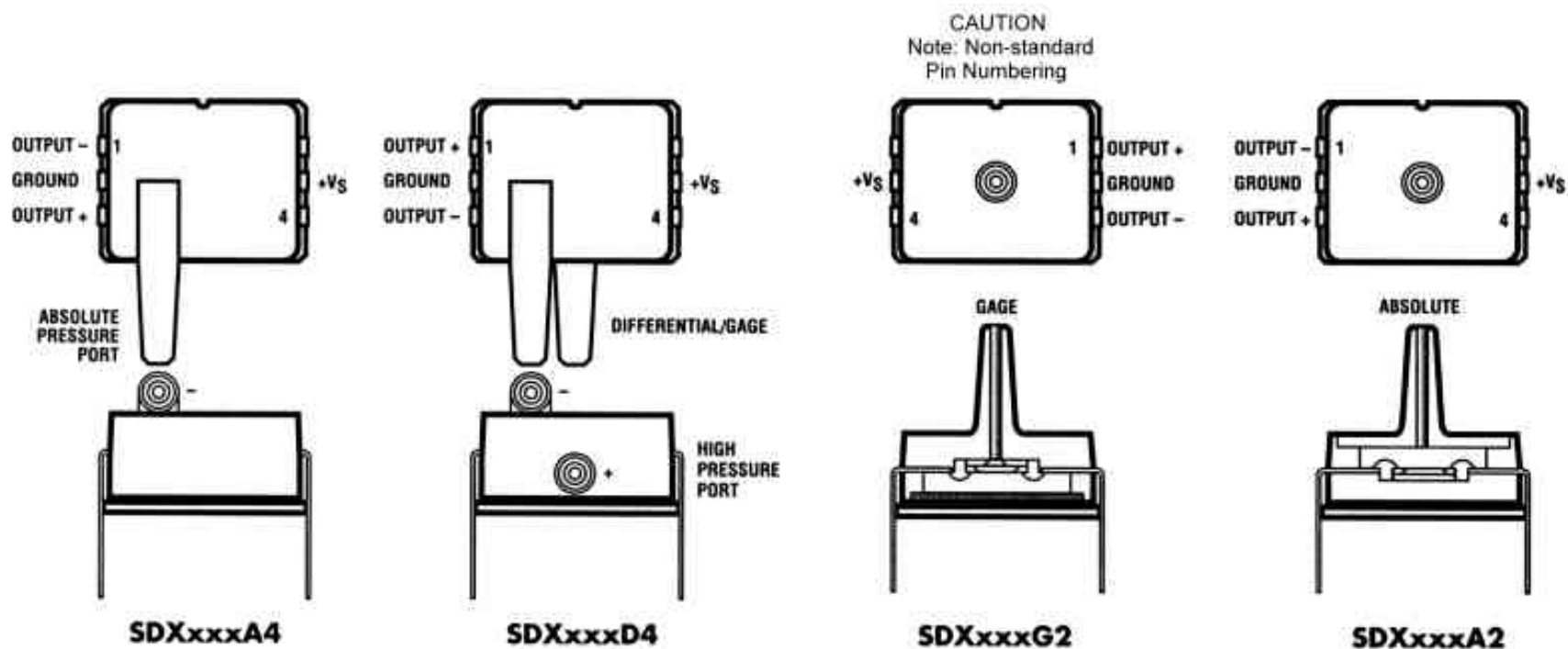
Dimension	Value (typ.)	Value (Metric)
Top horizontal dimension	10,92 typ.	0,430 typ.
Horizontal dimension below top	8,50 typ.	0,335 typ.
Horizontal dimension below that	3,05 typ.	0,120 typ.
Horizontal dimension below that	0,51 typ.	0,020 typ.
Horizontal dimension below that	2,79 typ.	0,110 typ.
Horizontal dimension below that	2,54 typ.	0,100 typ.
Horizontal dimension below that	0,25 typ.	0,010 typ.
Horizontal dimension below that	15,24 typ.	0,600 typ.

COMPENSATION CIRCUIT

Downloaded from [Arrow.com](http://arrow.com).

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## **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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