



# **D5100** Industrial Differential Pressure Transducer

### **SPECIFICATIONS**

- **316L Stainless Steel Wetted Surface**
- Voltage, Current, and mV Outputs
- **True Wet/Wet Differential** .
- CE Certified (amplified version only) •
- Variety of Pressure Ports and Electrical Connections

The D5100 series from Measurement Specialties sets the price and performance standard for differential pressure transducers used in demanding environments.

The amplified model of the D5100 series exceeds the latest heavy industrial CE requirements including surge protection and reverse polarity protection. The amplified and mV output pressure transducers both have two pressure ports for high and low pressures and all wetted parts are made of 316L stainless steel. They come in a variety of electrical configurations and ranges from 1 to 500 psi (up to 35 Bar).

SENSOR SOLUTIONS ///D5100



DSPM Industria\* Via Paolo Uccello 4 - 20148 Milano Tel +39 02 48 009 757 Fax +39 02 48 002 070

# FEATURES

- Heavy Industrial CE Approval (amplified only)
- As Low As ±0.1% Pressure Non Linearity
- Rugged Construction: Can Withstand 50g Shock/20g Vibration
- Up to -40°C to +125°C Operating Temperature Range
- Excellent Stability
- Various Output, Pressure Ports and Electrical Connections

### **APPLICATIONS**

- Process Controls
- Tank Level Measurement
- Filter Performance Monitoring
- Corrosive Fluids and Gas Measurement Systems
- Flow Measurements

### STANDARD RANGES

Range	psiD	Range	BarD
0 to 1	•	0 to 0.07	•
0 to 5	•	0 to 0.35	•
0 to 15	•	0 to 1	•
0 to 30	•	0 to 2	•
0 to 50	•	0 to 3.5	•
0 to 100	•	0 to 7	•
0 to 300	•	0 to 20	•
0 to 500	•	0 to 35	•

# PERFORMANCE SPECIFICATIONS (AMPLIFIED OUTPUT)

### Typical Drive: See Output Options Table

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS		1 PSI			≥5 PSI		UNITS	NOTES
FARAMETERS	MIN	ΤΥΡ	MAX	MIN	ТҮР	MAX	UNITS	NOTES
Accuracy	-0.3		0.3	5psi: -0.25		0.25	%Span	1
Roourdoy	0.0	0.5 ≥15		≥15psi: -0.1	0.1		/oopun	•
Isolation, Body To Any Lead	1			1			MΩ @25VDC	
Pressure Cycles	1.00E+6			1.00E+6			0-FS Cycles	
Proof Pressure (High Side)			10X			ЗX	Rated	2
Proof Pressure (Low Side)			10X			ЗX	Rated	3
Burst Pressure (High Side)			12X			4X	Rated	2
Burst Pressure (Low Side)			12X			4X	Rated	3
Line (common) Pressure			1000			1000	psi	
Line Pressure Effect on Zero		0.004			0.0008 TYP : 0.0005 TYF	)	%Span/psi	
Long Term Stability		±0.25			±0.1		%Span/year	
Total Error Band	-1.5		1.5	-1		1	%Span	
Compensated Temperature	0		50	0 -20		70 +85	°C	
Operating Temperature	-40		+85	-40		+125	°C	4
Storage Temperature	-40		+125	-40		+125	°C	4
Load Resistance (R <sub>L</sub> )	$R_L > 100k \Omega$							5
Sensor Type	Differential Pre	Differential Pressure Sensor with Unidirectional Calibration						
Pressure Port Material	316L Stainless	Steel						
Bandwidth	DC to 1KHz (ty	DC to 1KHz (typical)						
Shock	50g, 11 msec l	50g, 11 msec Half sine shock per MIL-STD-202F, Method 213B, Condition A						
Vibration	±20g, MIL-STD-810C, Procedure 514.2, Fig 514.2-2, Curve L							
Notes								

- Combined linearity, hysteresis and repeatability using Best Fit Straight Line. 1.
- 2. 1000psi, whichever is less.
- 3. 150psi, whichever is less.
- Except cable 105°C Max. 4.
- 5. Voltage output.

### **CE Compliance**

IEC 55022 Emissions Class A & B

IEC 61000-4-2 Electrostatic Discharge Immunity (6kV contact/8kV air)

IEC 61000-4-3 EM Field Immunity (30V/m)

IEC 61000-4-4 Electrical Fast Transient Immunity (1kV)

IEC 61000-4-5 Surge (1kV)

IEC 61000-4-6 Conducted Immunity (10V)

IEC 61000-4-9 Pulsed Magnetic Field Immunity (100A/m)

Pressure Port Options	Dim C (inches) [mm]	Electrical Connection Options
2 = 1/4-19 BSPP Male	3.08 [78.3]	1 = 2 ft cable
5 = 1/4-18 NPT Male	3.18 [80.8]	4 = Packard Connector
F = 1/4-19 BSPP Female	2.18 [55.42]	5 = Bendix Connector
G = 1/4-18 NPT Female	2.18 [55.42]	6 = Hirschmann Connector

Others available upon request

Others available upon request

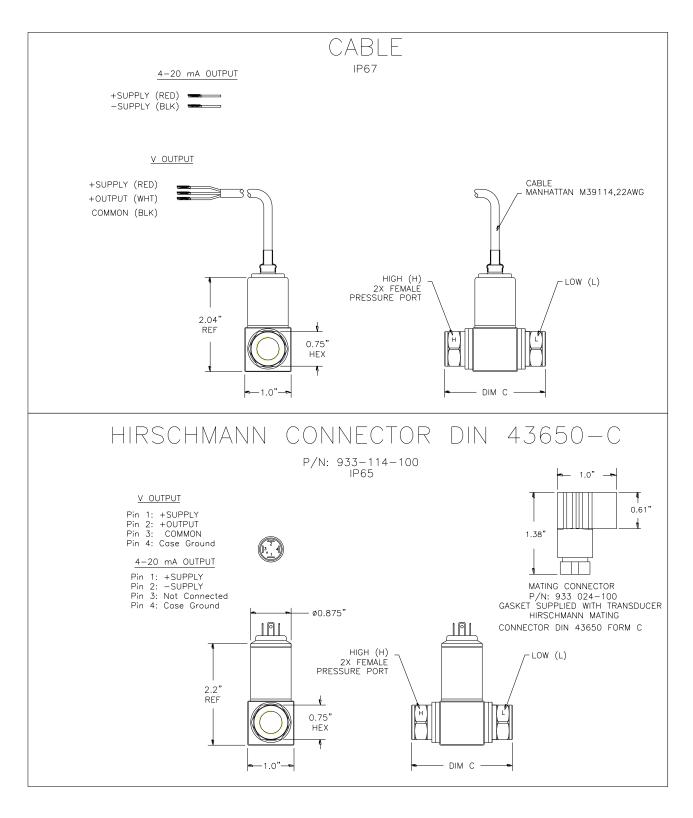
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### SENSOR SOLUTIONS ///D5100



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# DIMENSIONS (AMPLIFIED OUTPUT)

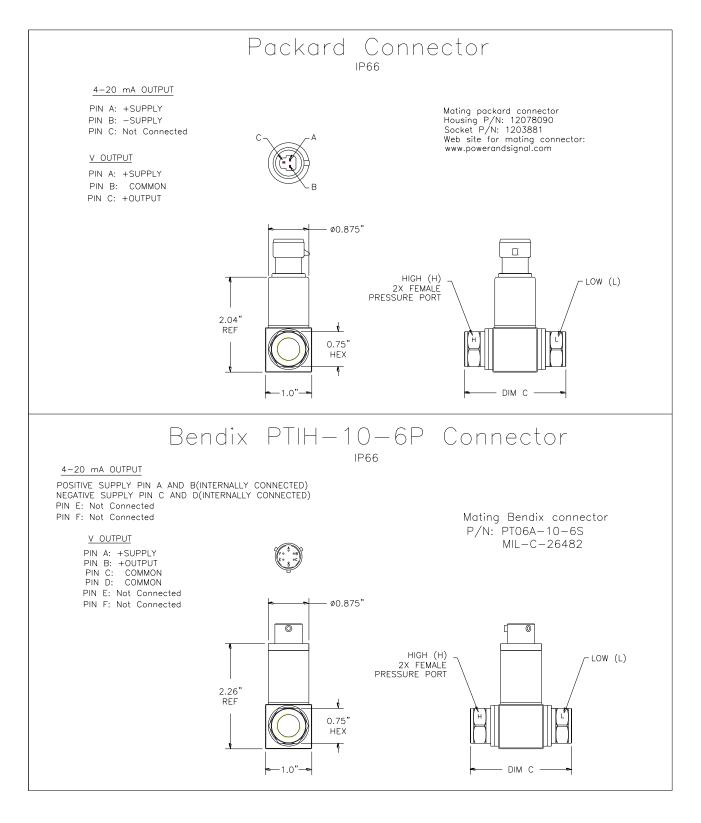


SENSOR SOLUTIONS ///D5100

09/2015

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# DIMENSIONS (AMPLIFIED OUTPUT)



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# OUTPUT OPTIONS (AMPLIFIED OUTPUT)

			Supply(V)		
Code	Output	MIN	ТҮР	MAX	
3	0.5 – 4.5V (ratiometric)	4.75	5.00	5.25	
4	1 – 5V	8	15	30	
5	4 – 20mA	9	15	30	

# PERFORMANCE SPECIFICATIONS (mV OUTPUT)

Supply Voltage: 10Vdc

Ambient Temperature: 25°C (unless otherwise specified

NumberNumberNumberNumberNumberNumberZero Pressure Output-2.00101010mVSpan778083Spsi: 99100101mVAccuracy-0.3 $0.3$ $\frac{5}{5}$ Spsi: 0.250.25 $N_S$ Span1Input Resistance5.59.012.55.59.012.5KQOutput Resistance4.0 $30.0$ $\frac{5}{5}$ Spsi: 0.250.00KQIsolation, Body To Any Lead505050NO (g60VDC)Pressure Cycles1.00E+6 $100E+6$ $000E+6$ $000$ psiProof Pressure (High Side) $10X$ 3XRated3Burst Pressure (Ind Side) $12X$ 4XRated3Line (common) Pressure $0.004$ $\frac{5}{2}$ Spsi: $1.0$ $100$ $NO$ Line Pressure Effect on Zero $0.004$ $\frac{5}{2}$ Spsi: $1.5$ $1.5$ $NO$ Coutput Load Resistance5 $5$ $1.5$ $NO$ $NO$ Line (common) Pressure $1.5$ $1.5$ $\frac{1.5}{2}$ Spsi: $1.5$ $1.5$ $NO$ Coutput Load Resistance $5$ $1.0$ $NO$ $NO$ $NO$ Coutput Load Resistance $5$ $1.0$ $NO$ $NO$ Coutput Load Resistance $5$ $1.5$ $NO$ $NO$ Coutput Load Resistance $5$ $1.5$ $NO$ $NO$ Coutput Load Resistance $5$ $NO$ $1.5$ $1.5$ $NO$ Coutput Load R	PARAMETERS	MIN	1 PSI TYP	МАХ	MIN	≥5 PSI TYP	МАХ	UNITS	NOTES
Zero Pressure Output         2.0         0         2.0         25ps: 2.0         0         2.0         mV           Span         77         80         83         215ps: 39         100         102         mV           Accuracy         -0.3         0.3         25ps: 9.9         100         101         mV           Input Resistance         5.5         9.0         12.5         5.5         9.0         12.5         KQ           Output Resistance         4.0         30.0         215psi: 4.0         30.0         250         KQ           Pressure Cycles         1.00E+6         1.00E+6         0-FS Cycles         250         100         250         250           Proof Pressure (Low Side)         1.00E+6         1.00E+6         0-FS Cycles         200	Supply Voltage	IVITIN			WIIN			VDC	
$ \frac{1}{10} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$			-		5psi: -2.0	-		-	
Span         //         80         83 $_{2}$ tpsi: 99         100         101         mV           Accuracy         -0.3         -0.3 $_{2}$ tpsi: -0.25         .0.25         .0.25         .0.25         .0.25         .0.25         .0.25         .0.25         .0.25         .0.25         .0.25         .0.0         12.5         .0.0         .0.0         .0.0         .2.5         .0.0	Zero Pressure Output	-2.0	0	2.0	•	0		mV	
Accuracy       -0.3       0.3       215ps: 90       100       100         Input Resistance       5.5       9.0       12.5       5.5       9.0       12.5       KQ         Output Resistance       4.0       30.0       25psi: 4.0       30.0       25	Shah	77	90	00	5psi: 98	100	102	m)/	
Accuracy       0.3       0.3       2*fpsi: 0.1       0.1       % Span       1         Input Resistance       5.5       9.0       12.5       5.5       9.0       12.5       KQ         Output Resistance       4.0       30.0 $\frac{5}{25}$ : 4.0       30.0       KQ       KQ         Isolation, Body To Any Lead       50 $KQ$ $KQ$ KQ       Pressure (high Side) $V<$ $V$ $V$ Rated       2         Proof Pressure (Low Side) $1.00E+6$ $100E+6$ $X$ Rated       3         Burst Pressure (Low Side) $12X$ $X$ Rated       3         Burst Pressure (Low Side) $12X$ $X$ Rated       3         Line (common) Pressure $1000^2$ $4X$ Rated       3         Line fressure Effect on Zero $0.004$ $\frac{5}{215}$ $1.00$ $\frac{6}{85}$ Long Term Stability $\pm 0.25$ $\frac{5}{215}$ $1.0$ $\frac{6}{85}$ $\frac$	эран	//	00	00	≥15psi: 99	100	101	ΠIV	
Input Resistance         5.5         9.0         12.5         5.5         9.0         12.5         5.5         9.0         12.5         KΩ           Output Resistance         4.0         30.0         ≥15psi: 4.0         25.0         KΩ           Isolation, Body To Any Lead         50         50         9.0         12.5         KΩ           Pressure Cycles         1.00E+6         50         0.75 Cycles         0.75 Cycles           Proof Pressure (High Side)         1.00E+6         3X         Rated         2           Burst Pressure (Low Side)         12X         4X         Rated         2           Burst Pressure (Low Side)         12X         4X         Rated         2           Line Pressure (Low Side)         20.04         \$55psi: 0.0008 TYP ≥15psi: 0.0005 TYP         %Span/psi           Line Pressure Effect on Zero         0.04         \$25         \$55         1.0         %Span/psi           Long Term Stability         ±0.25         ±0.1         %Span/psi         %Span/psi           Cong Term Stability         ±0.25         \$5         MQ         %Span           Output Load Resistance         5         1.0         %Span         %Span           Output Load Resistance         <	Accuracy	-0.3		0.3	•		0.25	%Span	1
Output Resistance $A.0$ $Bolol         \frac{5psi}{215psi} A.0 \frac{5psi}{215psi} A.0 SO KO           Isolation, Body To Any Lead         50         50         OESOVCC           Pressure Cycles         1.00E+6         OFSC OFSC           Proof Pressure (High Side)         OESOVEC OSS         Rated         2           Proof Pressure (Low Side)         10X         X         Rated         3           Burst Pressure (Low Side)         12X         4X         Rated         3           Line (common) Pressure         100 12X         4X         Rated         3           Line Pressure Effect on Zero         0.004 \frac{5psi}{215psi} 0.0008 TPP\geq 15psi 0.0005 TPP         \sqrt{Span/psi} \sqrt{Span/psi}           Line Pressure Effect on Zero         0.004 \frac{5psi}{215psi} 0.005 TPP         \sqrt{Span/psi} \sqrt{Span/psi}           Long Term Stability         \pm 0.25 \frac{5psi}{215psi} 0.005 TPP         \sqrt{Span/psi} \sqrt{Span/psi}           Temperature Coefficient – Span         1.5 \frac{5psi}{215psi} 0.005 TPP         \sqrt{Span} \sqrt{Span}           Output Load Resistance         5 5 MO $									
Cutput Hesistance         4.0         30.0 $\ge 15psi: 4.0$ $\ge 50$ KQ           Isolation, Body To Any Lead         50         MQ @S0VDC           Pressure Cycles         1.00E+6         0-FS Cycles           Proof Pressure (High Side)         10X         Rated         3           Proof Pressure (Low Side)         10X         X         Rated         3           Burst Pressure (Low Side)         12X         4X         Rated         3           Burst Pressure (Low Side)         12X         4X         Rated         3           Line (common) Pressure         0.004 $\sum 5psi: 0.0008$ TYP $\sum 8pan/psi$ 2           Long Term Stability $\pm 0.25$ $\sum 5psi: 1.0$ 1.0 $\sum 8pan/psi$ Cong Term Stability $\pm 0.25$ $\sum 5psi: 1.5$ 1.5 $\sum 8pan/psi$ Temperature Coefficient – Span $-1.5$ $\sum 5psi: 1.5$ 1.5 $\sum 8pan/psi$ Output Load Resistance         5 $MQ$ $\sum 15psi: 2.0$ $ms$ $\sum 15psi: 2.0$ $ms$ Compensated Temperature         0 $0.1$ $0.1$ $ms$ $\sum 15psi: 2.0$ $ms$	Input Resistance	5.5	9.0	12.5		9.0		KΩ	
$\begin{tabular}{ c                                   $	Output Resistance	4.0		30.0	•			KΩ	
Pressure Cycles1.00E+60.FS CyclesProof Pressure (High Side)10X3XRated2Proof Pressure (Low Side)10X3XRated3Burst Pressure (Low Side)12X4XRated2Burst Pressure (Low Side)12X4XRated3Line (common) Pressure1001000psi1000Line Pressure Effect on Zero0.0045psi: 0.0008 TYP >15psi: 0.0005 TYP%Span/psiLong Term Stability±0.25±0.1%Span/psiTemperature Coefficient – Span-1.51.5 >15psi: -1.51.5 >1.5 >15psi: -1.0%SpanTemperature Coefficient – Offset-2.52.55MQOutput Load Resistance55MQ1000Compensated Temperature050\$psi: 070 >15psi: -1.0%CCompensated Temperature-40+125-40+125°COperating Temperature-40+125-40+125°CCompensated Temperature-40+125-40+125°COperating Temperature-40+125-40+125°COperating Temperature-40+125-40+125°CVoltage Breakdown500V rms@50Hz, Leakage Current <tm< td="">+125'C4Voltage Breakdown500V rms@50Hz, Leakage Current <tm>-10010045Operating Temperature-40+125'40+125'CVoltage Breakdown500V</tm></tm<>	lealation Dady To Any Load	50			•		25.0		
$\begin{array}{c c c c c c } \begin{tabular}{ c c c c c c c } \hline Proof Pressure (High Side) & 10X & 3X & Rated & 3\\ Proof Pressure (Low Side) & 10X & 3X & Rated & 3\\ Burst Pressure (High Side) & 12X & 4X & Rated & 2\\ Burst Pressure (Low Side) & 12X & 4X & Rated & 3\\ Line (common) Pressure & 1000 & 100 & psi & 1000 & 100 & 100 & 100 & 100 & 100 & 1000 & psi & 1000 & 1$								-	
Proof Pressure (Low Side)10X3XRated3Burst Pressure (High Side)12X4XRated2Burst Pressure (Low Side)12X4XRated3Line (common) Pressure100012X4XRated3Line Pressure Effect on Zero0.004 $\frac{5psi: 0.0008 TYP}{s15psi: 0.0005 TYP}$ $\sqrt{8}Span/psi$		1.00E+0		10Y	1.00E+0		27	-	2
Burst Pressure (High Side)12X4XRated2Burst Pressure (Low Side)12X4XRated3Line (common) Pressure1000 $psi$ 1000 $psi$ Line Pressure Effect on Zero $0.004$ $\frac{5psi: 0.0008 TYP}{>15psi: 0.0005 TYP}$ $%Span/psi$ $NSpan/psi$ Long Term Stability $\pm 0.25$ $\pm 0.15$ $\frac{5}{215psi: 1.0}$ $NSpan/psi$ $NSpan/psi$ Temperature Coefficient – Span $-1.5$ $\frac{5psi: -1.5}{>15}$ $1.5$ $NSpan$ $NSpan$ Temperature Coefficient – Offset $-2.5$ $\frac{5psi: -1.5}{>1.5}$ $1.5$ $NSpan$ $NSpan$ Output Load Resistance $5$ $NQ$ $NQ$ $NQ$ $NQ$ Output Load Resistance $5$ $NQ$ $NQ$ $NQ$ Compensated Temperature $0$ $0.1$ $0.1$ $NQ$ $NQ$ Output Noise (10Hz to 1KHz) $0.1$ $0.1$ $NQ$ $NQ$ Compensated Temperature $-40$ $+85$ $-40$ $+125$ $^{\circ}C$ Operating Temperature $-40$ $+125$ $40$ $+125$ $^{\circ}C$ Voltage Breakdown $500V rms@50Hz, Leakage Current < T$									
Burst Pressure (Low Side)12X4XRated3Line (common) Pressure1000psi1000psiLine Pressure Effect on Zero $0.004$ $5psi: 0.0008$ TYP $\geq 15psi: 0.0005$ TYP $%Span/psi$ 1000Long Term Stability $\pm 0.25$ $\pm 0.25$ $\pm 0.1$ $%Span/psi$ 1000Temperature Coefficient – Span $-1.5$ $5psi: -1.5$ $1.5$ $\geq 15psi: -1.0$ $NSpan$ 1000Temperature Coefficient – Offset $-2.5$ $2.5$ $5psi: -1.5$ $1.5$ $\geq 15psi: -1.0$ $NOQ$ Output Load Resistance5 $5psi: -1.5$ $1.0$ $NOQ$ Output Noise (10Hz to 1KHz) $1.0$ $0.1$ $ms$ Compensated Temperature $0$ $51$ $5psi: 0.005$ $70$ $\geq 15psi: -20$ $85$ Operating Temperature $-40$ $+85$ $40$ $+125$ $°C$ Operating Temperature $-40$ $+125$ $40$ $+125$ $°C$ Operating Temperature $-40$ $+125$ $40$ $+125$ $°C$ Operating Temperature $-40$ $+125$ $40$ $+125$ $°C$ Voltage Breakdown $500V rms@50Hz, LeakageCurrent < ITTT$							-		
Line (common) Pressure1000psiLine Pressure Effect on Zero $0.004$ $\begin{array}{c} 5psi: 0.0008 TYP \\ \geq 15psi: 0.0005 TYP \end{array}$ $\begin{array}{c} \line Pressure Effect on Zero \\ > 15psi: 0.0005 TYP \end{array}$ $\begin{array}{c} \line Pressure Effect on Zero \\ > 15psi: 0.0005 TYP \end{array}$ $\begin{array}{c} \line Pressure Effect on Zero \\ > 15psi: 0.0005 TYP \end{array}$ $\begin{array}{c} \line Pressure Effect on Zero \\ > 15psi: 0.0005 TYP \end{array}$ $\begin{array}{c} \line Pressure Pressure Effect on Zero \\ > 15psi: 0.0005 TYP \end{array}$ $\begin{array}{c} \line Pressure Pres$									
Line Pressure Effect on Zero $0.004$ $\frac{5psi: 0.008 TYP}{>15psi: 0.005 TYP}$ $\frac{N}{N}$ pan/psi           Long Term Stability $\pm 0.25$ $\pm 0.1$ $\frac{N}{N}$ pan/psi           Temperature Coefficient – Span $-1.5$ $\frac{5psi: -1.5}{>15psi: -1.0}$ $1.0$ $\frac{N}{N}$ pan           Temperature Coefficient – Offset $-2.5$ $\frac{5psi: -1.5}{>1.5}$ $1.5$ $\frac{N}{N}$ pan           Output Load Resistance $5$ $5psi: -1.0$ $1.0$ $\frac{N}{N}$ pan           Output Noise (10Hz to 1KHz) $1.0$ $1.0$ $uV$ p-p           Response Time (10% to 90%) $0.1$ $0.1$ ms           Operating Temperature $-40$ $+85$ $-40$ $+125$ $^{\circ}C$ Operating Temperature $-40$ $+125$ $^{\circ}C$ 4           Voltage Breakdown $50V rms@50Hz, Leakage Current < trans$	, ,								3
Line Pressure Effect on Zero0.004 $\frac{1}{215psi: 0.005 TVP}$ $\frac{9}{8}Span/psi$ Long Term Stability $\pm 0.25$ $\pm 0.1$ $\frac{8}{8}Span/year$ Temperature Coefficient – Span $-1.5$ $\frac{5}{15}$ $1.5$ $\frac{8}{8}Span$ Temperature Coefficient – Offset $-2.5$ $2.5$ $\frac{5}{2}Spsi: -1.5$ $1.5$ $\frac{8}{8}Span$ Output Load Resistance $5$ $1.0$ $M\Omega$ $M\Omega$ Output Noise (10Hz to 1KHz) $1.0$ $0.1$ $M\Omega$ Response Time (10% to 90%) $0.1$ $0.1$ $ms$ Compensated Temperature $0$ $50$ $70$ $\geq 15psi: -20$ $85$ Operating Temperature $-40$ $+85$ $-40$ $+125$ $^{\circ}C$ Storage Temperature $-40$ $+125$ $-40$ $+125$ $^{\circ}C$ Voltage Breakdown $500V rms@50Hz, Leakage Current < T$				1000	5nsi: (		1000	p3i	
$\begin{array}{c c c c c } \mbox{Long Term Stability} & \pm 0.1 & \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Line Pressure Effect on Zero		0.004		•			%Span/psi	
Temperature Coefficient – Span-1.51.5 ≥15psi: -1.01.0%SpanTemperature Coefficient – Offset-2.52.55psi: -1.51.5 ≥15psi: -1.01.0%SpanOutput Load Resistance55MΩOutput Noise (10Hz to 1KHz)1.01.0 $V$ p-pResponse Time (10% to 90%)0.10.1msCompensated Temperature0505psi: 070 ≥15psi: -20%SpanOperating Temperature-40+85-40+125°CStorage Temperature-40+125-40+125°CVoltage Breakdown500V rms@50Hz, Leakage Current <1mA	Long Term Stability		±0.25					%Span/year	
Image: Properties of the second se	Tomporature Coefficient Coop	1 6		15	5psi: -1.5		1.5	% Enon	
Temperature Coefficient – Offset-2.52.5 $2.5$ $215psi: -1.0$ 1.0%SpanOutput Load Resistance55MQOutput Noise (10Hz to 1KHz)1.0 $0.1$ $0.1$ $0.1$ $0.1$ Response Time (10% to 90%)0.10.1msCompensated Temperature0 $500$ $70$ $25psi: 0$ $70$ Operating Temperature-40+85-40+125 $^{\circ}C$ Storage Temperature-40+125-40+125 $^{\circ}C$ Voltage Breakdown $500V rms@50Hz, Leakage Current Sensor TypeDifferential Pressure Sure Virt Unit CalibrationPressure Port Material316L Stainless Steel1.01.0$	Temperature Coencient – Span	-1.5		1.5	≥15psi: -1.0		1.0	%Span	
Output Load Resistance5MΩOutput Load Resistance55MΩOutput Noise (10Hz to 1KHz)1.0Response Time (10% to 90%)0.10.1Ompensated Temperature0505psi: 070 ≥15psi: -2085Operating Temperature-40+85-40+125°CStorage Temperature-40+125-40+125°CVoltage Breakdown500V rms@50Hz, Leakage Current <1mA	Temperature Coefficient - Offset	-2.5		25	5psi: -1.5		1.5	%Snan	
Output Noise (10Hz to 1KHz)1.0.uV p-pResponse Time (10% to 90%)0.10.1msCompensated Temperature05070 ≥15psi: -2085Operating Temperature-40+85-40+125°CStorage Temperature-40+125-40+125°CVoltage Breakdown500V rms@50Hz, Leakage Current < 1		-		2.5	≥15psi: -1.0		1.0		
Response Time (10% to 90%)0.10.1msCompensated Temperature0505psi: 070215psi: -208570Operating Temperature-40+85-40+125°C404125°CStorage Temperature-40+125-40+125°C404125°C40Voltage Breakdown500V rms@50Hz, Leakage Current <1mA	Output Load Resistance	5			5			MΩ	
Compensated Temperature0505psi: 070PCOperating Temperature-40+85-40+125°CStorage Temperature-40+125-40+125°CStorage Temperature-40+125-40+125°CVoltage Breakdown500V rms@50Hz, Leakage Current <1mL			1.0			-		uV p-p	
Compensated Temperature050≥15psi: -2085°COperating Temperature-40+85-40+125°CStorage Temperature-40+125-40+125°CVoltage Breakdown500V rms@50Hz, Leakage Current <1mA	Response Time (10% to 90%)		0.1			0.1		ms	
Operating Temperature-40+85-40+125°CStorage Temperature-40+125-40+125°CVoltage Breakdown500V rms@50Hz, Leakage Current <1mA	Compensated Temperature	0		50	•			°C	
Storage Temperature-40+125-40+125©C4Voltage Breakdown500V rms@50Hz, Leakage Current <1mA	compensated remperature	0		50	≥15psi: -20		85	-	
Voltage Breakdown     500V rms@50Hz, Leakage Current <1mA		-40		+85	-40		+125	-	
Sensor TypeDifferential Pressure Sensor with Unidirectional CalibrationPressure Port Material316L Stainless Steel	Storage Temperature	-40		+125	-40		+125	°C	4
Pressure Port Material 316L Stainless Steel	Voltage Breakdown	500V rms@50	0Hz, Leakag	ge Current «	:1mA				
	Sensor Type	Differential Pressure Sensor with Unidirectional Calibration							
Shock 50g, 11 msec Half sine shock per MIL-STD-202F, Method 213B, Condition A	Pressure Port Material	316L Stainless Steel							
	Shock	50g, 11 msec	Half sine sh	nock per MI	L-STD-202F, Metl	hod 213B, Co	ndition A		





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 sensori & trasduttori

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#### Notes

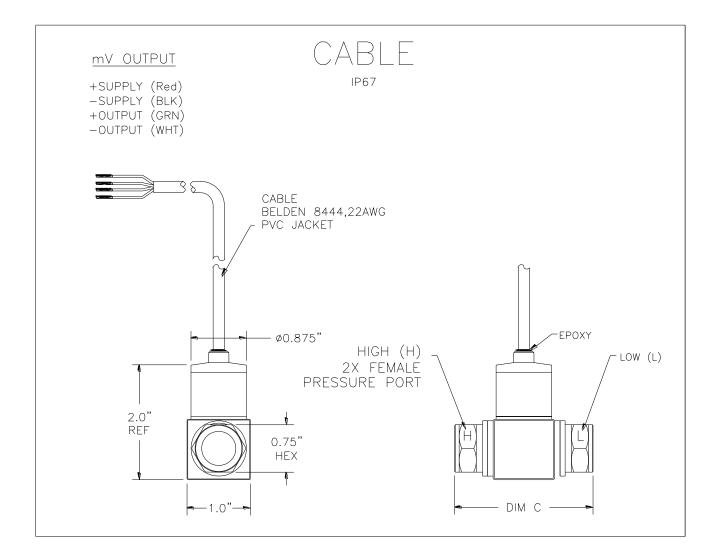
- 1. Combined linearity, hysteresis and repeatability using Best Fit Straight Line.
- 2. 1000psi, whichever is less.
- 3. 150psi, whichever is less.
- 4. Except cable 105°C Max.

Pressure Port Options	Dim C (inches) [mm]	Electrical Connection Options
2 = 1/4-19 BSPP Male	3.08 [78.3]	1 = 2 ft cable
5 = 1/4-18 NPT Male	3.18 [80.8]	
F = 1/4-19 BSPP Female	2.18 [55.42]	
G = 1/4-18 NPT Female	2.18 [55.42]	

Others available upon request

Others available upon request

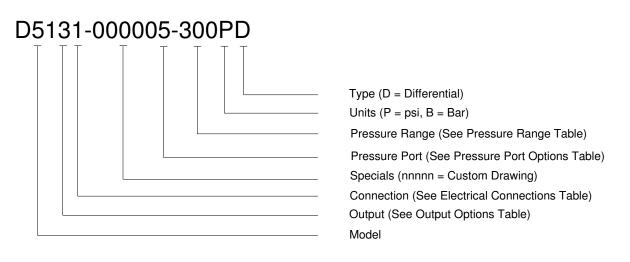
# DIMENSIONS (mV OUTPUT)



## **OUTPUT OPTIONS (mV OUTPUT)**

		Supply(V)		
Code	Output	MIN	TYP	MAX
2	80mV (1psi), 100mV (≥5psi) [ratiometric]		10	14

### **ORDERING INFORMATION**



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#### SENSOR SOLUTIONS ///D5100

09/2015

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