

Features

- All-welded 316L stainless steel sensor and pressure connection
- Highly configurable; wide selection of pressure connections and electrical terminations
- Ranges vacuum to 5000 psi
- NSF-61 Compliant

Typical Uses

- Performance vehicle racing
- Railroad/transportation
- Agriculture implements
- Compressor control
- HVAC and refrigeration
- Process automation and control
- Pump monitoring

Specifications

Reference 72 °F ±2 °F (21 °C ±1 °C)

Temperature:

Accuracy Class ± 0.50% of span

(BFSL):

Accuracy (TEB): **±1.5% of Span**: From -20 to 85 °C (-4 to 185 °F)

> **±2.0% of Span:** From -40 to -20 °C (-40 to -4 °F) **±2.0% of Span:** From 85 to 125 °C (185 to 257 °F) Total Error Band Accuracy: includes the combined effects of non-linearity (Terminal Point Method), hysteresis, non-repeatability, temperature and zero offset

and span setting errors

Stability: $\leq \pm 0.25\%$ of span/year

Durability: > 10 million cycles

Approvals: NSF-61, CE/UKCA, CE, UL (UL 61010-1),

(CSA 222 6101-1)

UL Recognized component per UL-61010-1, CSA 22.2 6101-1 Electrical Equipment for Measurement, Control and Laboratory use

Environmental Specifications

Temperature Storage: -40 °F to 257 °F (-40 °C to +125 °C) Limits: Operating: -40 °F to 257 °F (-40 °C to +125 °C)

Compensated: -40 °F to 257 °F (-40 °C to +125 °C)

Humidity Effects: 0 to 100% R.H., no effect

Functional Specifications

Vibration Effects: Random vibration (20 g) over temperature range

(-40 °C to 125 °C)

Shock Effects: 100 gs, 6 ms

Drop Test: Withstands 1 meter on concrete

Response Time: <2 ms









Key Benefits

- Broad temperature capability
- High EMI/RFI immunity ratings
- IP67 Ingress rating
- High performance ASIC based electronics

Functional Specifications

Pressure Ranges: Vacuum, compound, gauge 5 to 5000 psig

and absolute 15 to 500 psia

> 500 msec Warm-up Time:

Position Effect: $< \pm 0.01\%$ span

Overpressure: Proof Burst ≤200 psi 2X Range 5X Range 300 to 5000 psi 1.5X Range 3X Range

Electrical Specifications

Reverse Polarity & Yes Miswired Protected:

Insulation 100 Vac Breakdown Voltage:

Insulation >100 Mh @ 100 Vdc

Resistance: Circuit Protection: Reverse polarity and miswire protection





Output Signals Available						
Voltage Output	Excitation	Supply Current				
0-5 Vdc, 3 wire	9-36 Vdc	5 mA				
0-10 Vdc, 3 wire	14-36 Vdc	5 mA				
1-5 Vdc, 3 wire	9-36 Vdc	4 mA				
1-6 Vdc, 3 wire	9-36 Vdc	4 mA				
0.5-4.5 Vdc 3 wire	9-36 Vdc	4 mA				
Ratiometric Output						
0.5-4.5 Vdc, 3 wire	5.0 Vdc +/- 0.5Vdc	3.5 mA				
Current Output						
4-20 mA, 2 wire	9-36 Vdc					

Environmental Rating

Rating Electrical Connections
IP67, NEMA 4X Metri-Pack®, Shielded cable, Flying
leads Deutsch® DT & DTM, AMP®
Superseal® and M12
IP65, NEMA 4X Hirschmann® G, EN 175301-803
Form C (DIN 43650 C)

Wetted Components

Diaphragm 316L Stainless Steel
Process Connection 316L Stainless Steel

Non-Wetted Components

Housing 20% Glass Reinforced Nylon, Fire retardant to UL94 V1

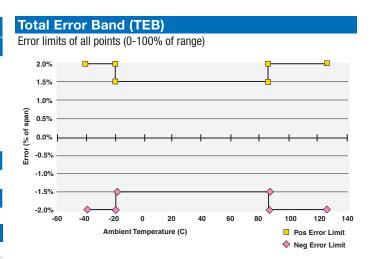
Optional Features

Electrical See Ordering Code Termination:

Process Connection Location: See Ordering Code

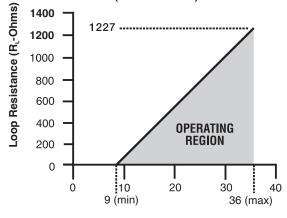
Consult Factory Pressure range options, Process connection

For: locations, Approval descriptions



Power Supply & Load Resistance

Power Supply Voltage vs. Loop Resistance (4-20 mA ONLY)



Loop Supply Voltage (Vdc) [LSV]



Ordering code	Example:	G37	M01	42	M2	60#	G -	XTU
Model								
G37 - G3 Series, 1.5% Total Error Band -20 °C to 85 °C	2.0%Total Error Band -40 °C to -20 °C	G37						
and 85 °C to 125 °C Pressure Connection Size								
M01 - 1/8 NPT - Male			M01					
M02 - ¼ NPT - Male			IVIOI					
MEK - 7/16 20 SAE #4 - Male, not UL reconginzed over	10,000 psi range							
MEV - %6-18 SAE #6 Male w/Buna-N O-ring, not UL I								
MS2 - 1/4-19 bsp - Male, not UL recognized over 10,00	00 psi range							
MG2 - G ¼ B - Male								
M38 - 3/2-24 SAE #3 Male w/Buna-N O-ring								
M33 - ^{3/8} -24 UNJF3A (w/37 ° cone seat)								
M76 - 7/6-20 UNJF3A (w/37 ° cone seat)								
Output Signal 5 - 0-5 Vdc								
5 - 0-5 vac 10 - 0-10 Vdc								
15 - 1-5 Vdc								
16 - 1-6 Vdc								
42 - 4-20 mA				42				
RM - 0.5-4.5 Vdc Ratio metric to 5 Vdc supply								
45 - 0.5 - 4.5 Vdc Ratio metric to 9-36 Vdc supply								
Electrical Termination								
EN 175301-803 Form C (DIN 43650, Form C)								
DC - No mating connector								
N1 - Mating connector, no cable								
N2 - Mating connector, 1 meter (3 feet) of cable								
N3 - Mating connector, 3 meter (10 feet) of cable								
N9 - Mating connector with customer specified lengt						-		
M12 - Mates to Hirschmann® 933 172-100 or simila	ar							
EW - No mating connector E0 - W/mating connector, no cable								
E2 - W/mating connector, 1 meter (3 feet) of shielded	cable					-		
E4 - W/mating connector, 3 meter (10 feet) of shielder						-		
E1 - W/mating connector, customer defined cable ler						-		
Pigtail - Shielded cable with PVC jacket and 24 A								
F2 - W/1 meter (3 feet) cable length								
F3 - W/3 meter (10 feet) of cable length								
P1 - Customer specified length								
Metri-Pack®						_		
GN - No mating connection								
G2 - Mating connection with 1 meter (3 feet) of cable						-		
G3 - Mating connection with 3 meter (10 feet) of cable G1 - Mating connector with customer specified lengt								
Hirschmann® G Series	II							
HM - No mating connection								
M1 - W/mating connector , no cable						-		
M2 - Mating connection with 1 meter (3 feet) of cable					M2	-		
P9 - Mating connector with customer specified lengt						-		
Flying Leads								
W2 - 1 meter (3 feet) of flying leads								
W9 - Customer specifed length								
Deutsch® DT Series DT04-3P								
DT - Without mating connector								
T2 - W/1 meter (3 feet) of cable								
T3 - W/3 meter (10 feet) of cable								
T1 - W/mating connector, customer specified length								
DS- Without mating connector						-		
S2 - W/1 meter (3 feet) of cable						-		
S3 - W/3 meter (3 feet) of cable								
S1 - W/mating connector, customer specified length								
AMP® Superseal®								
AP - Without mating connector								
A2 - W/1 meter (3 feet) of cable								
A3 - W/3 meter (10 feet) of cable								
A1 - W/mating connector, customer specified length								
Pressure Ranges (see range table on page 4)								
60# - 60 psi						60#		
Measurement Type								
G - Gauge							G	
A - Absolute Option (if including an option(s) must include an '	(Vii)							X

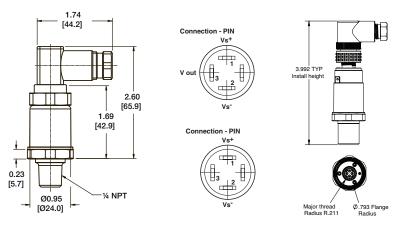


G3 Range Table								
	Range	Code	316SS	316SS ISO				
Gauge	5 psi	5#		Х				
	15 psi	15#	Χ*	Х				
	30 psi	30#	Х	Χ				
	50 psi	50#	Х	Х				
	60 psi	60#	Х	Х				
	100 psi	100#	Х	Х				
	150 psi	150#	Х	Х				
	250 psi	250#	Х	Х				
	300 psi	300#	Х	Х				
	500 psi	500#	X	X				
	750 psi	750#	Х	Х				
	1,000 psi	1000#	X	Х				
	1,500 psi	1500#	Х	Х				
	2,000 psi	2000#	X	Х				
	3,000 psi	3000#	Х	Х				
	5,000 psi	5000#	Х	Х				
Compound	0 psi/-14.7 psi	0#&vac	Х*	Х				
	15 psi/-14.7 psi	15#&vac	Х*	X				
	30 psi/-14.7 psi	30#&vac		Х				
	60 psi/-14.7 psi	60#&vac		Х				
	100 psi/-14.7 psi	100#&vac		Х				
	150 psi/-14.7 psi	150#&vac		Х				
	300 psi/-14.7 psi	300#&vac		Х				
Absolute	15 psi	15#		Х				
	30 psi	30#		Х				
	50 psi	50#		Х				
	60 psi	60#		Х				
	100 psi	100#		Х				
	250 psi	250#		Х				
	300 psi	300#		X				
	500 psi	500#		Х				

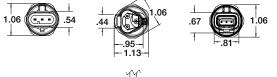
*Not available with 4-20mA output

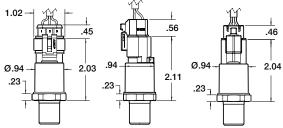
Dimensions are identified in inches and [millimeters]

For reference only, consult Ashcroft for specific dimensional drawings.

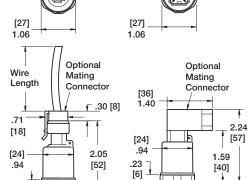


AMP® SUPERSEAL® DEUTSCH® DT04-3P DEUTSCH® DTM04-3P





3-PIN METRI-PACK®* MINI HIRSCHMANN®**



*Mates to Metri-Pack® Connector Body 12065286

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> **Mates to Hirschmann® G4W1F Connector or Similar