

## **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

#### **TYPICAL USES**

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

SPECIFICATIO	NS			
Reference Temperature:	72 °F ±2 °F (21 °C ±1 °C)			
Accuracy Class (BFSL):	$\pm$ 0.50% of span			
Accuracy (TEB):	<b>±1.5% of Span</b> : From -20 to 85 °C (-4 to 185 °F) <b>±2.0% of Span</b> : From -40 to -20 °C (-40 to -4 °F) <b>±2.0% of Span</b> : 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:	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			
ENVIRONMENT	TAL SPECIFICATIONS			
Temperature Limits:	Storage: -40 °F to 257 °F (-40 °C to 125 °C) 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 S	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			

All specifications are subject to change without notice. All sales subject to standard terms and conditions. Ashcroft® and Trust the Shield® are trademarks of Ashcroft Inc. The following non-Ashcroft trademarks are the property of their respective owners: 17-4 PH®, AMP®, Deutsch®, Metri-Pack® and Superseal®. For more information, see <u>Ashcroft Brands & Trademarks</u> @2022 Ashcroft Inc. G3\_transducer\_ds\_RevB\_11-15-22



G3 Transducer



## **KEY BENEFITS**

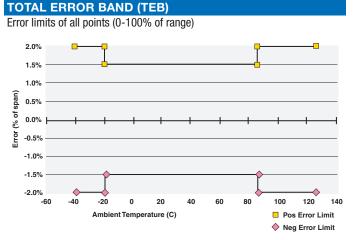
- Broad temperature capability
- High EMI/RFI immunity ratings
- Up to IP67 Ingress rating
- High performance ASIC based electronics

#### FUNCTIONAL SPECIFICATIONS Pressure Ranges: Vacuum, compound, gauge 5 to 5000 psig and absolute 15 to 500 psia Warm-up Time: > 500 msec Position Effect: < ±0.01% span Overpressure: Proof Burst 5X Range ≤200 psi 2X 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

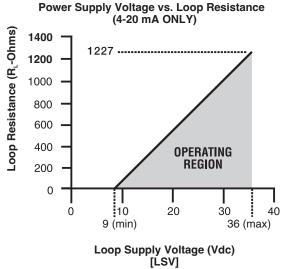
ashcroft.com | 1.800.328.8258 | Contact Us



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	Current Outpu <u>t</u>			
4-20 mA, 2 wire		9-36 Vdc		
ENVIRONMENT	AL	RATING		
Rating Electrical Connections P67, NEMA 4X Metri-Pack <sup>®</sup> , Shielded cable, Flying leads Deutsch <sup>®</sup> DT & DTM, AMP <sup>®</sup> Superseal <sup>®</sup> and M12 P65, NEMA 4X Hirschmann <sup>®</sup> G, EN 175301-803 Form C (DIN 43650 C)				
WETTED COMP	ON	ENTS		
Diaphragm	316L Stainless steel			
NON-WETTED	316L Stainless steel			
Housing	20% Glass reinforced nylon, Fire retardant to UL94 V1			
OPTIONAL FEATURES				
Electrical Termination:	See ordering code			
Process Connection Location:	See	See ordering code		
Consult Factory For:		ressure range options, process connection cations, approval descriptions		



## **POWER SUPPLY & LOAD RESISTANCE**



All specifications are subject to change without notice. All sales subject to standard terms and conditions. Ashcroft<sup>®</sup> and Trust the Shield<sup>®</sup> are trademarks of Ashcroft Inc. The following non-Ashcroft trademarks are the property of their respective owners: 17-4 PH<sup>®</sup>, AMP<sup>®</sup>, Deutsch<sup>®</sup>, Metri-Pack<sup>®</sup> and Superseal<sup>®</sup>. For more information, see <u>Ashcroft Brands & Trademarks</u> ©2022 Ashcroft Inc. G3\_transducer\_ds\_RevB\_11-15-22 2 of 4



ORDERING CODE	Example:	G3	M01	42	M2	60#	G-	XTU
Model		00						
G37 - G3 Series, 1.5% Total Error Band -20 °C/85 °C, 2.0%Total E Pressure Connection Size	rror Band -40 °C/-20 °C, 85 °C/125 °C	G3						
M01 - ¼ NPT - Male			M01					
M01 - /s N1 - Male M02 - 1/4 NPT - Male			IVIOT					
MEK - 7/16 20 SAE #4 - Male, not UL reconginzed over 10,000 ps	i range							
MEV - %-18 SAE #6 Male w/Buna-N O-ring, not UL recognized								
MS2 - 1/4-19 bsp - Male, not UL recognized over 10,000 psi rang								
MG2 - G ¼ B - Male	-							
M38 - %-24 SAE #3 Male w/Buna-N O-ring								
M33 - %-24 UNJF3A (w/37° cone seat)								
M76 - 7/16 - 20 UNJF3A (w/37° cone seat)								
Output Signal								
05 - 0-5 Vdc								
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				42				
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 length								
M12 - Mates to Hirschmann <sup>®</sup> 933 172-100 or similar								
EW - No mating connector								
E0 - W/mating connector, no cable								
E2 - W/mating connector, 1 meter (3 feet) of shielded cable								
E1 - W/mating connector, customer defined cable length								
Pigtail - Shielded cable with PVC jacket and 24 AWG leads								
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 length								
Hirschmann <sup>®</sup> G Series								
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 length								
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								
Deutsch <sup>®</sup> DT Series DTM04-3P								
DS- Without mating connector								
S2 - W/1 meter (3 feet) of cable								
S3 - W/3 meter (10 feet) of cable								
S1 - W/mating connector, customer specified length								
AMP <sup>®</sup> Superseal <sup>®</sup>								
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								V
Option (if including an option(s) must include an "X")								 
TU - Throttle Plug								10

All specifications are subject to change without notice. All sales subject to standard terms and conditions. Ashcroft® and Trust the Shield® are trademarks of Ashcroft Inc. The following non-Ashcroft trademarks are the property of their respective owners: 17-4 PH®, AMP®, Deutsch®, Metri-Pack® and Superseal®. For more information, see <u>Ashcroft Brands & Trademarks</u> ©2022 Ashcroft Inc. G3\_transducer\_ds\_RevB\_11-15-22

ashcroft.com | 1.800.328.8258 | Contact Us

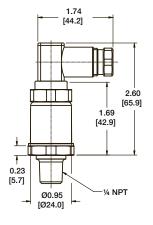


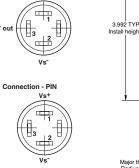
G3 RANGE TABLE					
	Range	Code			
_	0 psi/-14.7 psi	0#&vac			
	15 psi/-14.7 psi	15#&vac			
	30 psi/-14.7 psi	30#&vac			
ounod	60 psi/-14.7 psi	60#&vac			
* Compound	100 psi/-14.7 psi	100#&vac			
*	150 psi/-14.7 psi	150#&vac			
	300 psi/-14.7 psi	300#&vac			
	*5 psi	5#			
	15 psi	15#			
	30 psi	30#			
	50 psi	50#			
	60 psi	60#			
	100 psi	100#			
e	150 psi	150#			
Positive Pressure	250 psi	250#			
ive Pr	300 psi	300#			
Posit	500 psi	500#			
	*750 psi	750#			
	*1,000 psi	1000#			
	*1,500 psi	1500#			
	*2,000 psi	2000#			
	*3,000 psi	3000#			
	*5,000 psi	5000#			
	bar, kPa, and mPa ranges also available				

\*Not available in absolute pressure

#### **DIMENSIONS** are identified in inches and [millimeters]

For reference only, consult Ashcroft for specific dimensional drawings.





DEUTSCH® DTM04-3P

1.06

793 Flange Major thread Radius R.211

AMP® SUPERSEAL® DEUTSCH® DT04-3P

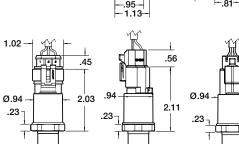
.44

.54

1.06

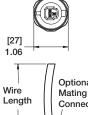
.06 .67

Connection - PIN Vs+



.46 2.04

3-PIN METRI-PACK®\*



.71

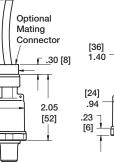
[18]

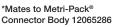
[24]

.94

.23 7 [6]







\*\*Mates to Hirschmann® G4W1F Connector or Similar

Optional

Connector

2.24

[57]

1.59

[40]

Mating

All specifications are subject to change without notice. All sales subject to standard terms and conditions. Ashcroft® and Trust the Shield® are trademarks of Ashcroft Inc. The following non-Ashcroft trademarks are the property of their respective owners: 17-4 PH®, AMP®, Deutsch®, Metri-Pack® and Superseal®. For more information, see Ashcroft Brands & Trademarks ©2022 Ashcroft Inc. G3\_transducer\_ds\_RevB\_11-15-22

4 of 4