ASHCROFT®
Trust the shield.®

AXLdp Low Differential Pressure Transmitter

FEATURES

- UL94-V0 rated PBT case
- Calibrated ratiometric output
- Low voltage power requirement
- Easy mounting to PCBs
- Available in pressure ranges below 0.5 IWC

TYPICAL USES

- Flow Measurements
- Room Pressure Control
- Energy Management
- Fan Control
- HVAC and VAV

AXLdp
Pressure Transmitter

PERFORMANCE SPECIFICATIONS	
Reference Temperature:	70°F ±2°F (21°C ±1°C)
Accuracy Class:	±2.0%, ±1.0% of span (Terminal Point Method: includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors)
Stability:	≤±0.50% span/year
Media Compatibility:	Clean, dry and non-corrosive gas NOT FOR USE ON LIQUIDS

ENVIRONMENTAL SPECIFICATIONS		
Temperature Limits:	Storage:	–40°F to 158°F (–40°C to 70°C)
	Operating:	–4°F to 140°F (–20°C to 60°C)
	Compensated:	37°F to 127°F (3°C to 53°C)
Thermal Coefficients:	Zero & Span: ±0.10% of span/°F (±0.18% Span/°C)	
Humidity Effects:	No performance effect at 10-95% R.H. noncondensing	

FUNCTIONAL SPECIFICATIONS		
Mounting Position:	Calibration in vertical position (STD.)	
Overpressure Limits:	Proof: 7.25 psid	Burst: 11.60 psid
Max. Static Line Pressure:	11.60 psi	

ELECTRICAL SPECIFICATIONS	
Output Signal (Ratiometric):	(10% to 90% of the supplied voltage) 0.5 to 4.5 V with a 5 Vdc supply
Supply Voltage:	4.75 to 5.25 Vdc

KEY BENEFITS

- **OEM product**
- **Broad temperature capability**
- **High performance ASIC based electronics**
- **Superior long-term stability and repeatability**
- **Compact design: 1.18" x 1.65" x 0.37"**

PHYSICAL SPECIFICATIONS	
Pressure Connection:	3/32" I.D. tubing
Mating Electrical Connection:	JST BHR-03VS-1
Weight:	0.35 oz without leads
Environmental Rating:	IP20, NEMA 1(meets UL94-V0)

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WETTED MATERIAL

Media

Clean, dry air/gases compatible with Silicon, Glass, Gold, Titanium, Ceramic, Silicone Rubber, Aluminum and PBT
NOT FOR USE ON LIQUIDS

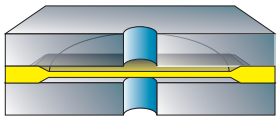
NON-WETTED

Housing

PBT (meets UL94-V0)

Featuring a highly reliable variable capacitance sensor using the patented Ashcroft® Si-Glass™ sensor. This ultra-thin single crystal diaphragm provides inherent sensor repeatability and stability.

Sensor Cross Section



The silicon diaphragm sensor has no glues or other organics to contribute to drift or mechanical degradation over time.

ORDERING CODE Example:	AX9	MB3	RM	ST	2IW
Model & Accuracy					
AX7 - AXLdp Series, ±1.0% of span					
AX9 - AXLdp Series, ±2.0% of span	AX9				
Pressure Connection					
MB3 - 3mm tube stube		MB3			
Output Signal					
RM - 0.5-4.5 Vdc ratiometric output			RM		
Electrical Termination					
NC - No leads					
ST - Leads with JST Connector				ST	
Pressure Range					
Unidirectional Ranges (differential)					
P2IW - 0.20 IWD					
P25IW - 0.25 IWD					
P5IW - 0.50 IWD					
P75IW - 0.75 IWD					
1IW - 1.00 IWD					
2IW - 2.00 IWD					2IW
2P5IW - 2.50 IWD					
4IW - 4.00 IWD					
5IW - 5.00 IWD					
10IW - 10.00 IWD					
15IW - 15.00 IWD					
20IW - 20.00 IWD					
Bi-directional Ranges					
P1IWL - ±0.10 IWD					
P25IWL - ±0.25 IWD					
P5IWL - ±0.50 IWD					
1IWL - ±1.00 IWD					
2IWL - ±2.00 IWD					
2P5IWL - ±2.50 IWD					
5IWL - ±5.00 IWD					
7P5IWL - ±7.50 IWD					
10IWL - ±10.00 IWD					

Consult factory for custom calibration ranges and other temperature compensation ranges

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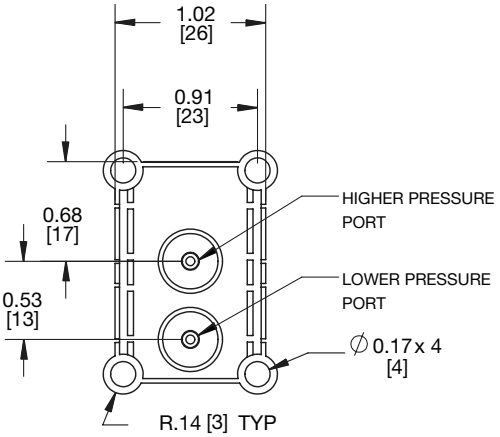
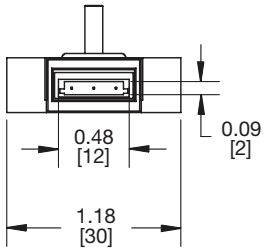
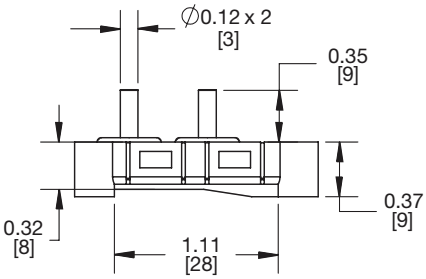
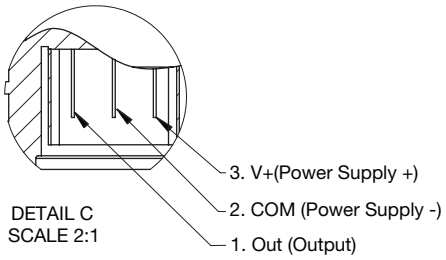
DIMENSIONS in [ ] are millimeters

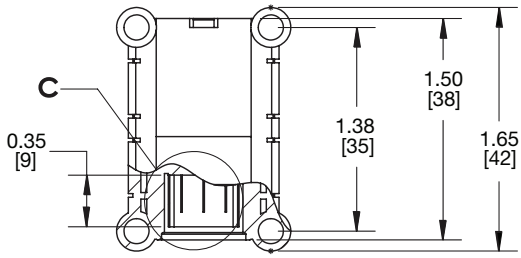
For reference only, consult Ashcroft for specific dimensional drawings











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