ICM387

Optional Pressure Transducer for ICM325A

Scan to see a full specifications, installation and agency certification information.

APPLICATIONS: APPLIANCE / ELECTRICAL / HVAC/R / MARINE / POOL & SPA / RV

The ICM387 pressure transducer provides proven performance at a competitive price.

APPLICATIONS

- √ Discharge and suction pressure monitoring
- √ Subcooling and superheat calculations
- √ Compressor oil pressure monitoring
- √ Condenser fan control
- √ Compressor staging and unloading
- √ Electronic expansion valve control
- √ Remote systems diagnostics and trending

SPECIFICATIONS

Pressure Ranges
- 0-500 psi

Performance

Accuracy: +/- 1.2% span (linearity, hysterisis, repeatability, calibration)

Temperature error: +/- 0.013% °C

Operating Temperature: -40°C to +135°C

Electrical
- **Supply Voltage (Vin):** 4.5 to 5.5 Vdc
- **Output Voltage (Vout):** 0.5 to 4.5 Vdc typical
- **Supply Current:** 8 mA (maximum @ 5.5 Vdc with no load)
- **Output Current:** 2.5 mA (maximum sink or source)
- **Output Load:** 10K ohms typical Output
- **Output Response Time:** 10 mS
- **Overvoltage Protection:** 16 Vdc
- **Reverse Voltage:** 14 Vdc
- **Short Circuit Protected:** Yes
- **EMC (512 MHz-1 GHz):** 25 V/m
- **EMC (10 MHz-512MHz):** 50 V/m
- **ESD (CDF-AEC-Q100-002):** 15k V

Physical
- **Proof Pressure:** (5X) 15-75 psi, (3X) 100-300 psi, (2X) 500 psi
- **Burst Pressure:** 2CP5 1500 psi/2500 psi minimum
  2CP50 2500 psi minimum
- **Cycle Life:** 10M F.S. cycles
- **Random Vibration** (50-2000 Hz): 11g
- **Drop (any axis):** 1.5 m
- **Electrical Connection:** Nema 4X, IP65

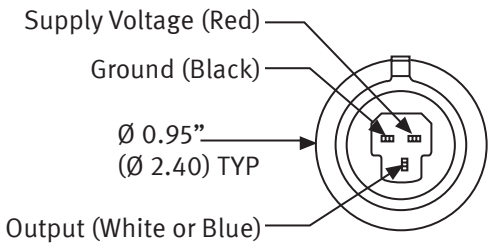
FEATURES

- √ Ceramic capacitive sensor
- √ Durable, compact design
- √ Accurate performance over wide temperatures
- √ Overvoltage and short circuit protected
- √ Brass connector
- √ Sealed gauge (neoprene seal)

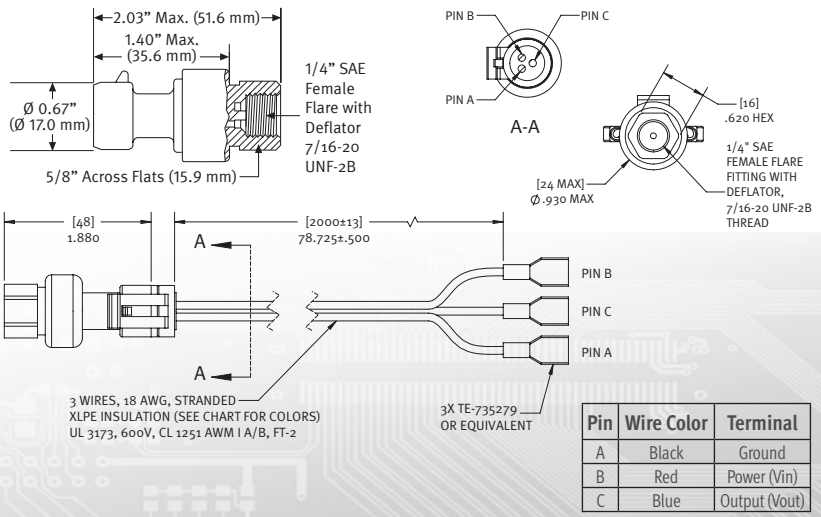
MODE OF OPERATION

The standard design is ideal for demanding HVAC and refrigeration applications where long-term reliability is a must. The transducer is designed to operate with a 5Vdc supply, and to provide a robust o to 5Vdc output. The output is ratiometric to supply voltage, allowing the user to maintain accuracy with variation in the supply voltage. The electrical interface is a rugged industry accepted connector. The brass pressure connection has multiple threads. This device maintains accuracy through a wide temperature range.

WIRING DIAGRAM



DIMENSION DIAGRAM



Pin	Wire Color	Terminal
A	Black	Ground
B	Red	Power (Vin)
C	Blue	Output (Vout)

Content and specifications on sell sheets subject to change without notice.

ICM CONTROLS | MADE IN AMERICA

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