Differential Pressure Switches

Dwyer Instruments, Inc. | www.dwyer-inst.com

Series MDS
Miniature Pressure Switch
Shock and Vibration Resistant, Lightweight and Compact, Gold Contacts

The Series MDS Pressure Switch is designed with a double diaphragm to protect false actuation due to shock and vibration. This low cost pressure switch has a minimum 20 million cycle life expectancy, and an extremely fast response time, making this an ideal device for OEM orders.

### SPECIFICATIONS

**Switch Type:** SPST normally open.

**Switching Media:** Air or compatible fluids on “high” side.

**Pressure Limits:**
- MDS-0: 0.5 in w.c.
- MDS-1: 1.0 in w.c.
- MDS-2: 1.5 in w.c.
- MDS-3: 2.0 in w.c.
- MDS-4: 3.0 in w.c.
- MDS-6: 6.0 in w.c.
- MDS-8: 10.0 in w.c.
- MDS-10: 15.0 in w.c.
- MDS-12: 30.0 in w.c.
- MDS-14: 50.0 in w.c.

**Current Rating:**
- Gold contact switch providing maximum 40 mA resistive load allowing for life in excess of 20 million cycles.

**Temperature Limits:**
- 40 to 150°F (4 to 66°C).

**Contacts:**
- 18K gold inlay.

**Electrical Connections:**
- Brass tab-type for use with quick disconnects.

**Pressure Connections:**
- Two barbed ports for use with 1/8˝-3/16˝ ID tubing.

**Housing:**
- Polycarbonate.

**Diaphragm Material:**
- Polyurethane.

**Operating Voltage:**
- AC/DC - 30V or less with resistive load.

**Weight:**
- Less than 0.353 oz (10 g).

**Agency Approval:**
- cUL, UL.

See page 587 for process tubing options.

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Series MDA
Miniature Adjustable Pressure Switch
Adjustable Set Points from 0.1 to 100 in w.c.

Sense differential pressure with the Series MDA Miniature Adjustable Pressure Switch. The switch features field adjustable set point and gold inlay contacts. Air or other compatible fluids can be used on the “high side”. The lightweight and compact size make the MDA ideal for any application with space constraints. Applications include industrial, HVAC, pump and motor control, medical, automotive, pools and spas.

### SPECIFICATIONS

**Switch Type:** SPST normally open.

**Switching Media:** Air or compatible fluids on “high” side.

**Pressure Limits:**
- MDA-011: 8 psi
- MDA-111: 8 psi
- MDA-211: 8 psi
- MDA-311: 15 psi
- MDA-411: 25 psi

**Current Rating:**
- 40 mA resistive for life in excess of 20 million cycles.

**Temperature Limits:**
- 40 to 150°F (4 to 66°C).

**Contacts:**
- 18K gold inlay.

**Electrical Connections:**
- Terminals - 0.187˝ x 0.20: spade (recessed) for use with quick disconnects.

**Pressure Connections:**
- Smooth port 5/32˝ diameter for 1/8˝ ID tubing.

**Housing:**
- Polycarbonate.

**Diaphragm Material:**
- Polyurethane.

**Operating Voltage:**
- AC/DC - 30V or less with resistive load.

**Mounting:**
- Use #4 screws through mounting lugs or #2 screws through eyelets.

**Weight:**
- Less than 0.353 oz (10 g).

**Agency Approval:**
- cUL, UL.

See page 587 for process tubing options.

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