

### Product Overview

The AX-LDPS-K Series differential pressure switch is designed for monitoring pressure differentials in neutral and mildly aggressive liquids and gases. It is widely used for pump status monitoring, boiler systems, flow detection and filter condition monitoring. The switch provides a reliable output signal when the pressure or flow rises above or falls below a preset alarm threshold. Its robust, user-friendly design enables straightforward installation and precise adjustment of the switching point.



### Products Features

- High overpressure withstand capability up to 20 bar
- Adjustable mounting bracket for installation flexibility
- Switching setpoint adjustable via calibration screw
- Enclosure protection class: IP54 (in accordance with IEC 60529)
- CE compliant

### Product Specifications

|                       |  |
|-----------------------|--|
| Range:                | 0.4 to 4 Bar   |
| Maximum Pressure:     | 20 Bar   |
| Pressure Connections: | 1/8" BSP female thread                                 |
| Cable Entry:          | Cable gland with PG 9 thread                           |
| Switch Rating:        | SPDT Micro-Switch, 5A at 250V AC                       |
| Weight:               | 1.10 Kg to 1.32 Kg                                     |
| Media Temperature:    | -10°C to 85°C  |
| Protection Class:     | IP54   |
| Marking:              | CE Approved  |
| Dimensions:           | 133.5×675×67.5mm and 139×675×67.5mm                    |
| Material:             | Body: Brass<br>Cover: Painted Steel<br>Diaphragm: EPDM |
| Country of Origin:    | China  |

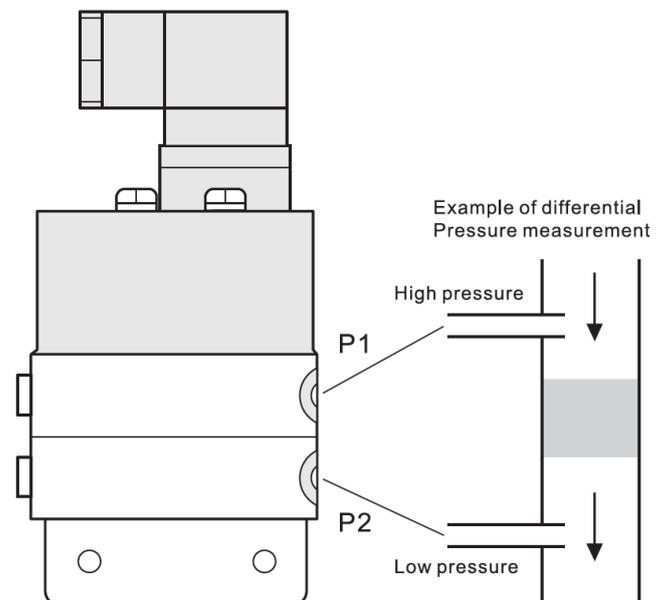
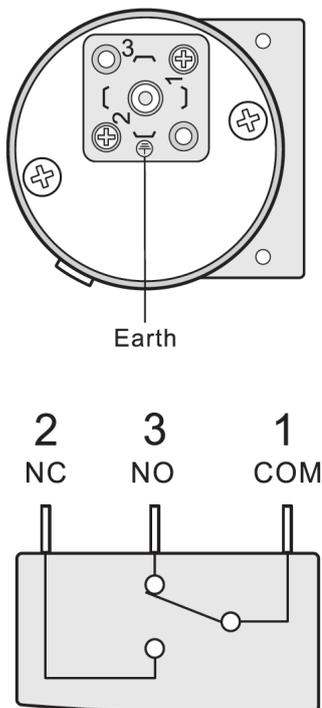
### Product Order Codes

| Order Code    | Description   |
|---------------|---|
| AX-LDPS-K250M | Liquid Differential Pressure Switch (40 to 250mBar), Fixed Hysteresis 25mBar. |
| AX-LDPS-K1K   | Liquid Differential Pressure Switch (0.07 to 1Bar), Fixed Hysteresis 50mBar.  |
| AX-LDPS-K4K   | Liquid Differential Pressure Switch (0.2 to 4Bar), Fixed Hysteresis 100mBar.  |

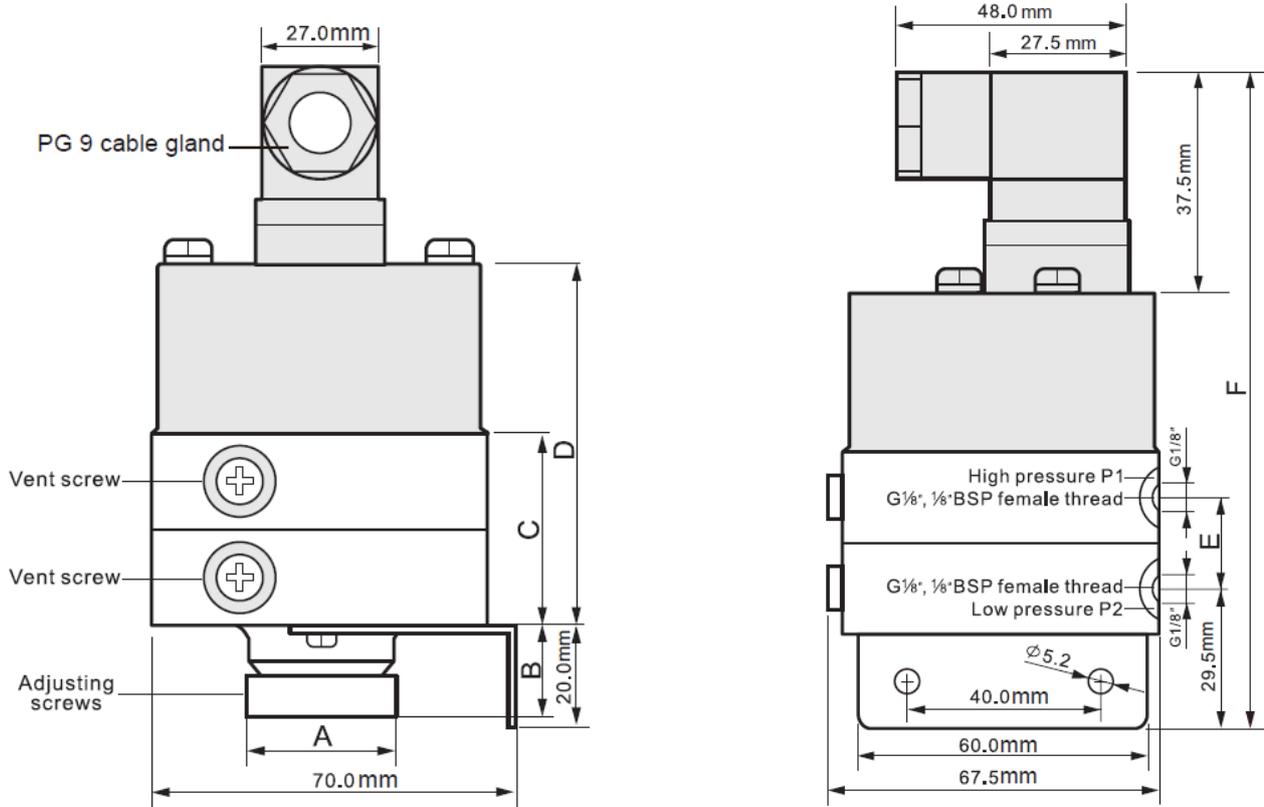
### Installation Instructions

- Verify that the maximum allowable operating pressure (MAOP) of the DPS exceeds the maximum system pressure.
- Connect P1 to the high-pressure port and P2 to the low-pressure port; reverse connection is not permissible.
- Isolate the power supply prior to removing the enclosure cover.
- Confirm that the electrical contact ratings of the DPS are appropriate for the application.
- Ensure correct terminal wiring and that the DPS is effectively earthed.
- Ensure the ambient and process temperatures remain within the specified operating range of  $-10\text{ }^{\circ}\text{C}$  to  $+85\text{ }^{\circ}\text{C}$ .
- Install the DPS in a vibration-free environment.
- For liquid differential pressure measurement, mount the DPS horizontally to avoid gravitational influence on measurement accuracy.
- Prevent the ingress of sediment or particulate contamination into the sensing ports.
- Ensure no isolation or control valves are installed between the pressure sensing points.
- Set the switching setpoint using a screwdriver via the adjustment screw.
- Perform a functional test of the complete system after installation and adjustment.

### Electrical Connection



### Dimensions:



### Datasheet Contents

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