

AX-LDPS1382 & 1482

Liquid Differential Pressure Switch



Product Overview

The AX-LDPS1382 & 1482 range of differential pressure switches is a cost effective pressure monitoring solution for liquids and non aggressive gases. The unit is designed for both flow proving and flow failure detection with models available to cover a wide differential pressure range.

Features

- Easy Installation
- Changeover contacts to suit many applications
- Optional integrated 4-pin plug (-P)
- Complete with mounting bracket
- Suitable for use with mains voltage

Product Specifications

Range:		Pressure Range	Hysteresis
	AX-LDPS1382-1	0.07 to 1 bar	0.04 bar
	AX-LDPS1382-4	0.2 to 4 bar	0.07 bar
	AX-LDPS1382-11	0.5 to 11 bar	0.3 bar
	AX-LDPS1382-28	2 to 28 bar	0.6 bar
	AX-LDPS1482-125	5 to 125 mbar	2.5 mbar
	AX-LDPS1482-250	15 to 250 mbar	4 mbar
	AX-LDPS1482-400	25 to 400 mbar	10 mbar
Max. Line Pressure:	>250 mbar	34 bar max	
	<125 mbar	14 bar max	
Out of Balance Pressure:		4 x pressure range	
Pressure Connections:		1/8" BSP female Brass	
Electrical Connection:		Screw terminals - max conductor size 1.5mm ²	
Switch Rating:		10A @ 250Vac inductive load 1A @ 30Vdc inductive load	
Materials:	Housing:	Aluminium/Zinc diecast	
	Diaphragm:	Beryllium Copper	
	Seals:	Nitrile Rubber	
	Connections:	Brass	
Media Temperature:		-10°C to +85°C	
Protection:		IP65	
Country of Origin:		United Kingdom	

Order Codes

AX-LDPS1382-1	Liquid Differential Pressure Switch 0.07 to 1 bar	
AX-LDPS1382-4	Liquid Differential Pressure Switch 0.2 to 4 bar	
AX-LDPS1382-11	Liquid Differential Pressure Switch 0.5 to 11 bar	Add -P suffix to part number
AX-LDPS1382-28	Liquid Differential Pressure Switch 2 to 28 bar	for integrated 4-pin plug &
AX-LDPS1482-125	Liquid Differential Pressure Switch 5 to 125 mbar	socket
AX-LDPS1482-250	Liquid Differential Pressure Switch 15 to 250 mbar	
AX-LDPS1482-400	Liquid Differential Pressure Switch 25 to 400 mbar	

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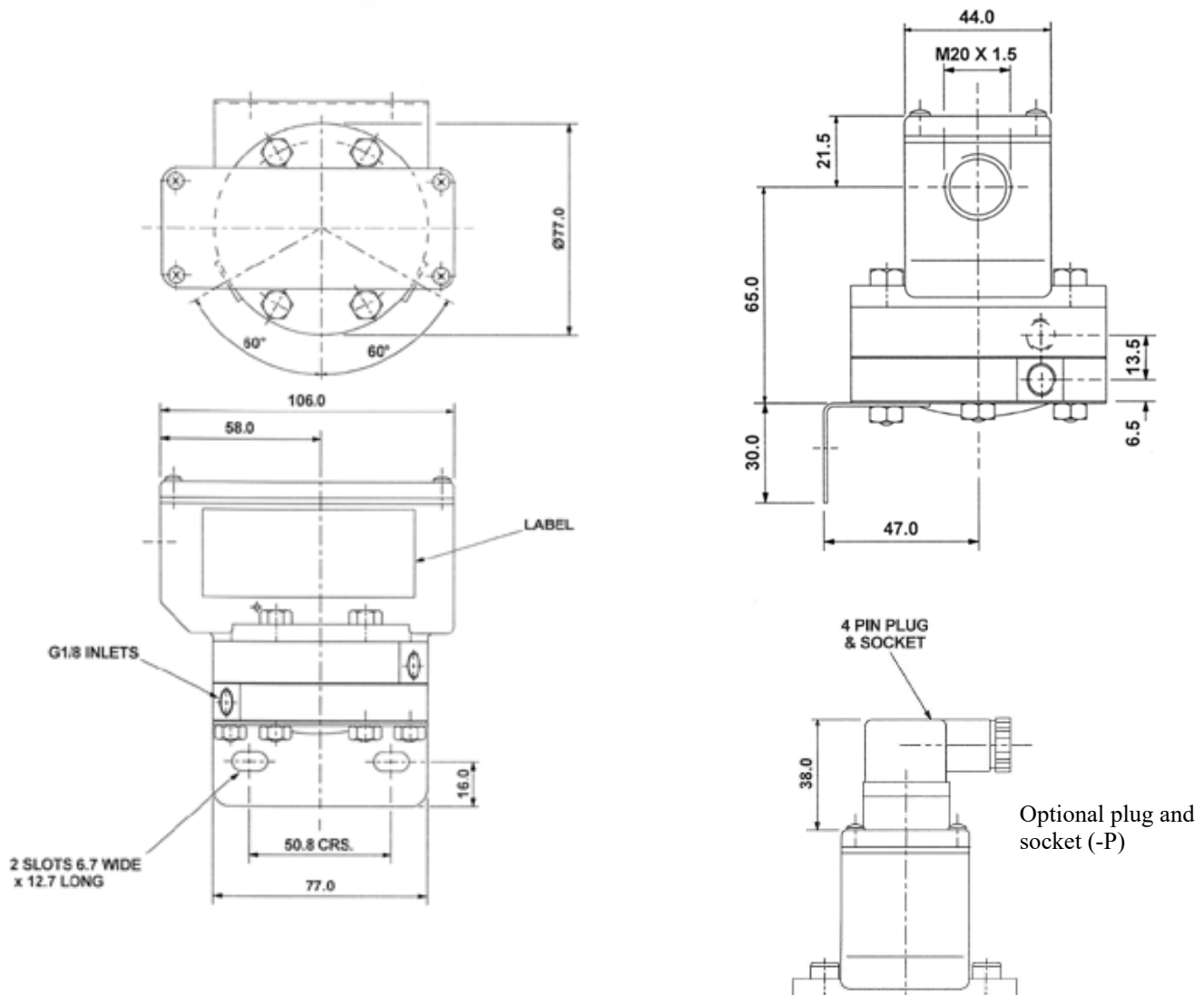


Installation

The AX-LDPS should be installed by a suitably qualified technician in accordance with prevailing regulations and any guidelines for the equipment to which it is to be connected. The AX-LDPS is suitable for use with mains voltage and power must be isolated before opening the cover.

The AX-LDPS is for use in systems under pressure and should be installed in accordance with practices relevant to the intended use only by persons qualified to do so. The AX-LDPS should be mounted on a wall or other suitable surface using the bracket provided. Pipework should then be installed to the unit and terminated at the high and low ports using the 1/8" BSP fittings. It is the responsibility of the installer to ensure that the pipework is suitable for the system pressure.

Dimensions



Connections

SPDT microswitch with a rating of 10A @ 250Vac resistive.

Pin 1	Common
Pin 2	Normally Closed
Pin 3	Normally Open
Pin 4	Earth

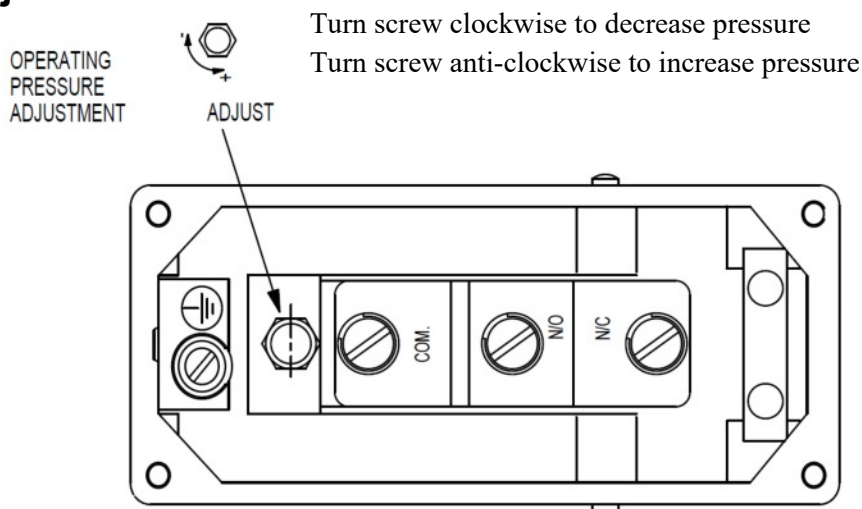
NOTE: To ensure electrical safety always ensure the switch is suitably earthed.

Installation & Use of Pressure Switches

A pressure switch correctly installed and to the correct specification gives a set point at a specific set pressure. This electrical circuit can be used to stop or start a machine, operate an alarm or regulate the pressure in a process. Pressure Switches are invaluable in the efficient and safe operation of plant and machinery.

- A) Before fitting the pressure switch to a pressure source ensure that the maximum pressure of the pressure switch is higher than that of the pressure to be applied.
- B) Before fitting the pressure switch to a pressure source check that the wetted parts are compatible with the fluid being used, and that the pressure connection correctly matches that of the pipework.
- C) Do not use piston type pressure switches on gases.
- D) Do not use standard pressure switches on Oxygen or Acetylene unless approved by our technical department.
- E) When fitting the pressure switch to the pipework use correct sealing methods. Do not use the switch housing to tighten the switch to the pipework, use the correct spanners on the base hexagon.
- F) Differential pressure switches should not be used with more than the range applied to one side, unless approved by the Technical Department. Line pressure must not exceed the line pressure stated on the pressure switch label. The higher of the two pressures must be connected to the port marked high and the lower of the two pressures must be connected to the port marked low.
- G) Ensure that the electrical supply is isolated before removing the cover. All covers are marked with a warning flash.
- H) Ensure, before connecting the terminals of the pressure switch to the circuit, that the electrical switch is of the correct rating. The rating is stated on the pressure switch label.
- I) Ensure that the terminals are correctly connected and the pressure switch body is correctly earthed.
- J) Ensure that the pressure switch setpoint is correctly earthed.
- K) Ambient and process temperatures acting on the pressure switch should be within -10°C to $+85^{\circ}\text{C}$ and protected from higher fluid temperatures by means of a siphon tube filled with condensate before use. The fluid in the pressure chamber should not be allowed to freeze or crystallise as this will lead to rupture of the sensing element.

Setting adjustment



Every effort has been taken in the production of this data sheet to ensure accuracy. Axio do not accept responsibility for any damage, expense, injury, loss or consequential loss resulting from any errors or omissions. Axio has a policy of continuous improvement and reserves the right to change this specification without notice.