

Proven Draft Switch PDS-1

Description

The PDS1, Proven Draft Switch, is a fixed set point (.05"W.C) differential pressure switch that is used in conjunction with ENERVEX's Mechanical Draft Systems. It is used for insufficient draft protection, so if an unsafe draft condition occurs, whether this is caused by mechanical or electrical failure, the switch will shut down the heating appliance. It is typically used with gas or oil fired appliances where it can be interlocked with the gas supply valve or the safety or control circuit of the appliance.

Application

Differential pressure monitoring in exhaust and ventilation systems.

Suitable for air, flue and exhaust gases.

Material

The enclosure, the switch housing and the internal switch are made of polycarbonate. The diaphragm is made of NBR (silicone), while the switching contact is made in fine silver.

Approvals

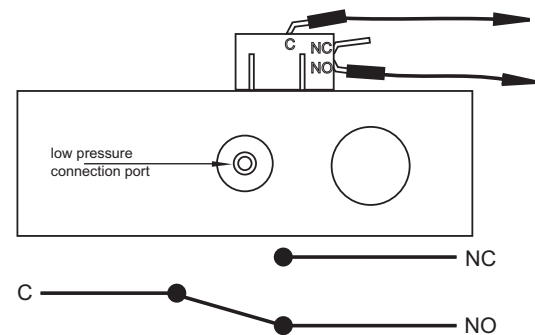
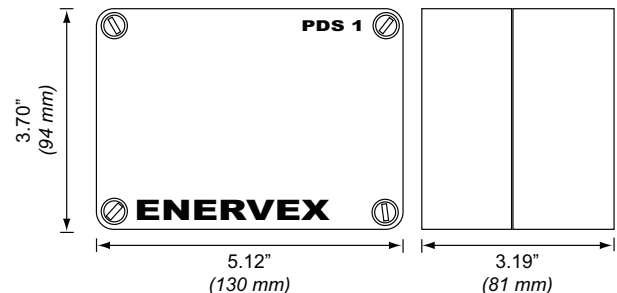
The switch is UL recognized product.

Warranty

2 year factory warranty.

Specifications

Maximum Load	3 Amps @ 120 VAC
Range of Operation	.05 to .50"W.C. (13 to 135 Pa)
Temperature Limits	-40°F to +190°F (-40°C to +88°C)
Max. Pressure	3 PSI (207 mbar)
Wiring Connections	1/4" Solderless Quick Connect Terminals
Pressure Connections	Two plastic tubes, outside diameter of 1/4" (6.0mm)
Weight	9.6 oz. (0.275 kg)



Functional Description

The differential pressure acts via diaphragm against the force of setting spring on the microswitch. The pressure switch operates without any auxiliary power.

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Specifications are subject to change without notice.