# Differential Pressure Switch for air, flue and exhaust gases

AA-A1...











#### **Approvals**

## **UL Recognized**

- UL 353
- File # MH 16628

#### **CSA Certified**

- CSA C22.2 No. 14
- File # 201527

## **FM Approved**

- Class 3510, 3530
- File # J.I. 1T7A8.AF

## Commonwealth of Massachusetts Approved Product

- Approval code G3-0106-191
- Air pressure switch for differential, vacuum or pressure

#### **Codes and Standards**

This product is recommended for installations covered by but not limited to NFPA 85, NFPA 86, UL 795, CSD-1, ANSI Z83.4, ANSI Z83.18, ANSI Z21.13, CSA B149.1, CSA B149.3 and CSA B149.6.

DUNGS is an ISO 9001 manufacturing facility.



### **Description**

AA-A1... differential pressure switches are compact pressure switches for automatic burner controls. Available with hose connections.

AA-A1... differential pressure switches are suitable for making and/or breaking a circuit when the medium pressure changes relative to the set point.

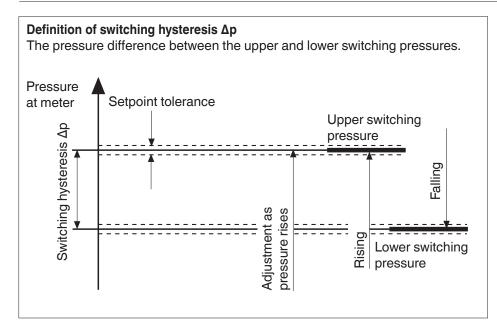
#### **Application**

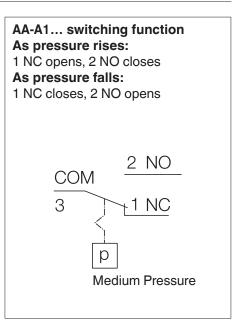
Differential pressure monitoring in firing, ventilation and air-conditioning systems. The AA-A1... can be used as a pressure, vacuum or differential pressure switch for air and non-aggressive gases. Not suitable for natural gas, propane, butane and other combustable gases.

**AA-A1...** SPDT differential pressure switch in pressure and vacuum ranges. The differential pressure acts via the diaphragm against the force of the setting spring on the micro-switch. The pressure switch operates without any auxiliary power.

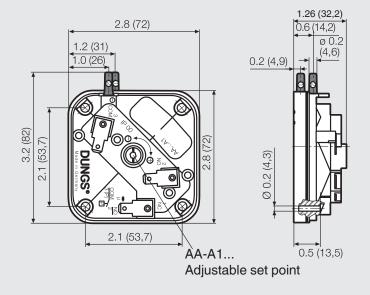
## **Specifications**

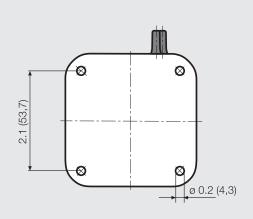
Max. operating pressure	1.5 PSI (103 mbar)				
Pressure connection	0.16" (4 mm) diameter hose connection				
Temperature range	Ambient temperature -40 °F to +140 °F (-40 °C to +60 °C)  Medium temperature -40 °F to +140 °F (-40 °C to +60 °C)				
Materials	Housing: Polycarbonate Switch: Polycarbonate Diaphragm: NBR-based rubber Switching contact: Silver (Ag)				
Electrical ratings	AC eff. min. 24 V max. 250 V DC min. 24 V max. 48 V				
Current ratings	AC 5 A resistive @ 120 VAC AC 2.5 A inductive @ 120 VAC DC min. 20 mA @ 24 VDC DC max. 1 A @ 12 - 48 VDC				
Electrical connection	1/4 x 1/32" (6.3 x 0.8 mm) flat male terminals				
Enclosure rating	Standard: No NEMA Type rating (no cover) NEMA Type 1 with 230216 cover NEMA Type 12 with 225816 cover				
Setting tolerance	Tolerance as per specification				
Installation position	Any, as per specification. The setting point changes by approx. $\pm 0.2$ in. W.C. if the mounting position is different than the setting position				





## **Dimensions inch (mm)**





Height with NEMA Type 1 cover: 1.33 (34,2) Height with NEMA Type 12 cover: 1.80 (45,6)

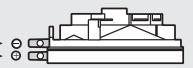
## **Pressure connection**

1 Pressure connection (+)

2 Pressure connection (-)

Connection p2 (-) = lower pressure

Connection p1 (+) = higher pressure



AA-A1...



Туре	Version	Description	Order No.	Factory setting range in. W.C.	Switching hysteresis in. W.C.
AA-A1-0	AA-A1-0-2	No cover	266906	0.16 - 1.20	≤ 0.14
	AA-A1-0-3	No cover	266904	0.40 - 4.00	≤ 0.20
	AA-A1-0-4	No cover	266908	1.00 - 20.00	≤ 0.40
AA-A1-3	AA-A1-3-2	Includes NEMA Type 12 cover and 1/2 NPT conduit connection	266907	0.16 - 1.20	≤ 0.14
	AA-A1-3-3	Includes NEMA Type 12 cover and 1/2 NPT conduit connection	266905	0.40 - 4.00	≤ 0.20
	AA-A1-3-4	Includes NEMA Type 12 cover and 1/2 NPT conduit connection	266909	1.00 - 20.00	≤ 0.40

Accessories for pressure switch	Order No.		
NEMA Type 1 Cover	230216	Shown with NEMA Type 1 Cove	r
NEMA Type 12 cover with 1/2 NPT conduit connection	225816	The state of the s	Shown with NEMA Type 12 Cover
Mounting plate (flat plastic)	230301		

We reserve the right to make any changes in the interest of technical progress.



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