Differential pressure switch for air, flue and exhaust gases

ΔΔ-Δ1...









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 factory set, 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.

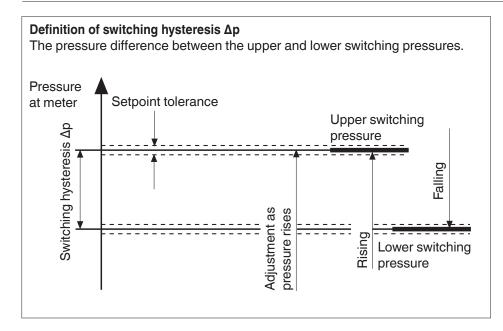
Application

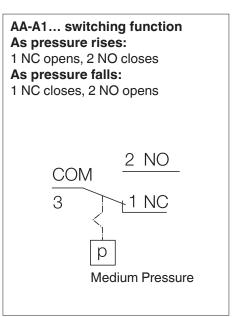
Differential pressure monitoring in firing, ventilation and air-conditioning systems. The AA-A1... can be used as a pressure, vacuum or differential pressure switch for air and non-aggressive gases. Not suitable for natural gas, propane, butane and other combustable gases.

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.

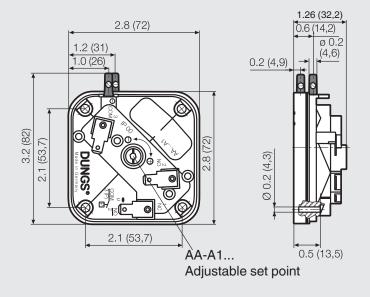
Specifications

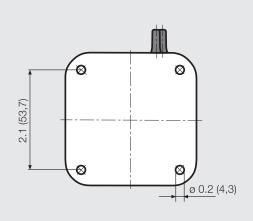
Max. operating pressure	1.5 PSI (103 mbar)			
Pressure connection	0.16" (4 mm) diameter hose connection			
Temperature range	•	0 °F to +140 °F (-40 °C to +60 °C) 0 °F to +140 °F (-40 °C to +60 °C)		
Materials	Switch: Po Diaphragm: NE	olycarbonate olycarbonate BR-based rubber lver (Ag)		
Electrical ratings	AC eff. min. 24 V ma DC min. 24 V ma	——————————————————————————————————————		
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 230-216 cover NEMA Type 12 with 225-816 cover			
Setting tolerance	Tolerance as per specification			
Installation position	Any, as per specification. The setting point changes by approx. ± 0.2 in. W.C. if the mounting position is different than the setting position			





Dimensions inch (mm)



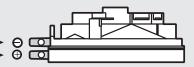


Height with NEMA Type 1 cover: 1.33 (34,2) Height with NEMA Type 12 cover: 1.80 (45,6)

Pressure connection

- 1 Pressure connection (+)
- 2 Pressure connection (-)

Connection p2 (-) = lower pressure Connection p1 (+) = higher pressure





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	216-788A	0.16 - 1.20	≤ 0.14
	AA-A1-0-3	No cover	216-752A	0.40 - 4.00	≤ 0.20
	AA-A1-0-4	No cover	216-867A	1.00 - 20.00	≤ 0.40
AA-A1-3	AA-A1-3-2	Includes NEMA Type 12 cover and 1/2 NPT conduit connection	216-788CA	0.16 - 1.20	≤ 0.14
	AA-A1-3-3	Includes NEMA Type 12 cover and 1/2 NPT conduit connection	216-752CA	0.40 - 4.00	≤ 0.20
	AA-A1-3-4	Includes NEMA Type 12 cover and 1/2 NPT conduit connection	216-867CA	1.00 - 20.00	≤ 0.40

Accessories for pressure switch	Order No.		
NEMA Type 1 Cover	230-216	Shown with NEMA Type 1 Cove	r
NEMA Type 12 cover with 1/2 NPT conduit connection	225-816		Shown with NEMA Type 12 Cover
Mounting plate (flat plastic)	230-301		

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