# 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.

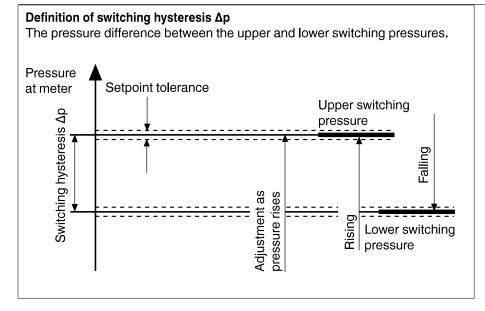
#### **Application**

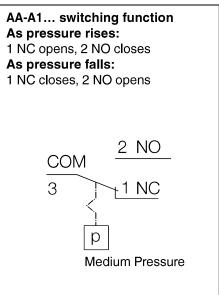
Differential pressure monitoring in firing, ventilation and air-conditioning systems. The AA-A1... can be used as a pressure, vacuum or differential pressure switch for air and non-aggressive gases. Not suitable for natural gas, propane, butane and other combustable gases.

**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.

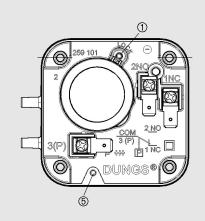
**Specifications** 

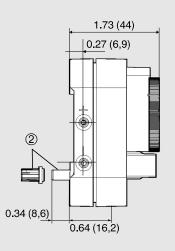
Max. operating pressure	1.5 PSI (103 mbar)					
Pressure connection	0.16" (4 mm) diameter hose connection					
Temperature range	Ambient / Medium: UL, FM	40 °F to +150 °F (-40 °C to +66 °C)				
	CSA -	40 °F to +104 °F (-40 °C to +40 °C)				
	Storrage:	40 °F to +150 °F (-40 °C to +66 °C)				
Materials	Housing: Polycarbo	rbonate				
	Switch: Polycarbo	onate				
	Diaphragm: NBR-bas	ased rubber				
	Switching contact: Silver (Ag	g)				
Electrical ratings	AC eff. min. 24 V max. 2	240 V				
-	DC min. 12 V max.	48 V				
Current ratings	AC 5 A resistive @ 240 VAC					
-	AC 3 A inductive @ 240 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)					
<u> </u>	IP 20 with 262045 protection					
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					

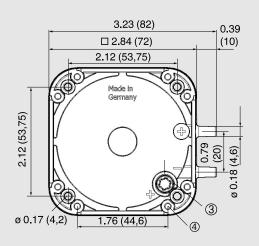




# Dimensions inch (mm)

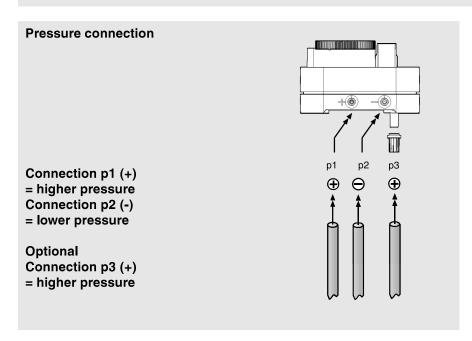






Height with cover: 1.73 (44 mm)

- ① optional switching point lock cheese had screw ø 3 x 0.55 (14 mm)
- ② optional sealing cap and connection p 3, Ø 0.18 (4,6 mm)
- 3 Sealing face area for O-ring Ø 0.19 (4,87 mm) x 0.07 (1,8 mm) to DIN 3371
- Blind hole 8 x Ø 0.15 (3,8 mm) deep
- ⑤ optionally Mounting of contact protection for cheese head screw ø 3 x 0.55 (14 mm)



AA-A1...



Туре	Version	Description	Order No. (1 piece)	Order No. (multi, 60 piec		ctory setting nge in. W.C.	Switching hysteresis in. W.C.
AA-A1-0	AA-A1-0-2	No cover	277329	279935	0.1	6 - 1.20	≤ 0.14
	AA-A1-0-3	No cover	277328		0.4	0 - 4.00	≤ 0.20
Accessorie	s for pressu	re switch	Order No.				
IP 20 Cover	(1 pcs)		262045			ara (	
Mounting pla	ate (1 pcs)		230301			7	
Screw ø 3 x	14 (2 pcs)		266045				
Klima-Set (D	ouct mounting	g kit)	258247				
Adapter ø 4/	6 (2 pcs)		266037		Ø 6 m	m <b>←</b> ○	ð 4 mm

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

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