# 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

APPROVED

- 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

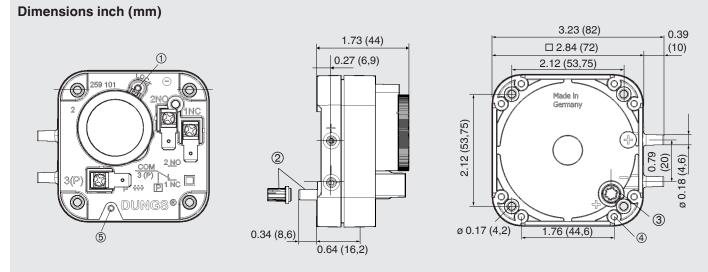
AA-A1... differential pressure switches are compact pressure switches for automatic burner controls. Available with hose connections.

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.

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:PolycarbonateSwitch:PolycarbonateDiaphragm:NBR-based rubberSwitching contact:Silver (Ag)
Electrical ratings	AC eff. min. 24 V max. 240 V DC min. 12 V max. 48 V
Nominal current ratings	AC 5 A resistive @ 240 VAC AC 3 A inductive (pilot duty) @ 240 VAC DC min. 20 mA @ 24 VDC DC max. 1 A @ 24 - 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) 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
Definition of switching hy The pressure difference Pressure at meter Setpoint to	between the upper and lower switching pressures. As pressure rises: 1 NC opens, 2 NO closes As pressure falls: 1 NC closes 2 NO opens



Height with cover: 1.73 (44 mm)

① optional switching point lock cheese had screw ø 3 x 0.55 (14 mm)

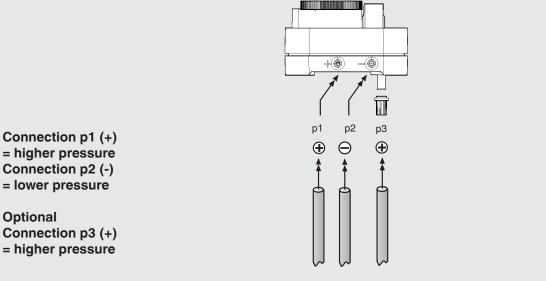
② optional sealing cap and connection p 3, ø 0.18 (4,6 mm)

3 Sealing face area for O-ring ø 0.19 (4,87 mm) x 0.07 (1,8 mm) to DIN 3371

3 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)

#### Pressure connection



# Differential Pressure Switch for air, flue and exhaust gases

AA-A1...



Туре	Version	Description	Order No. (1 piece)	Order No. (multi, 60 p	ieces)		ry setting in. W.C.	Switching hysteresis in. W.C.
AA-A1-0	AA-A1-0-2	No cover	277329	279935		0.16 -	1.20	≤ 0.14
	AA-A1-0-3	No cover	277328			0.40 -	4.00	≤ 0.20
Accessories for pressure switch			Order No.					
IP 20 Cover	(1 pcs)		262045				(en) ( <b>•</b>	L L L L
Mounting pl	ate (1 pcs)		230301				l	Ĵ,
Screw ø 3 x	14 (2 pcs)		266045					
Klima-Set (I	Duct mounting	g kit)	258247		- 1 1 1 1 1 1		, <b>T</b>	Ĵ,
Adapter ø 4,	/6 (2 pcs)		266037			6 mm ◄ 6 mm ◄	-	4 mm

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

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