

Pressure switch for gas and air GW

5.01

DUNGS®



Technical description

The GW pressure switch are adjustable pressure switches for automatic burner controls. They are suitable for switching a circuit on, off or over on changes in actual pressure value relative to the set reference value. The reference value (switching point) is adjusted on a setting wheel provided with a scale. Test nipple at G 1/4 connection as standard.

Application

For gas burner, ventilation, air-conditioning and filter systems. The pressure switches can be used as pressure switches. Suitable for gases of families 1,2,3 and other neutral gaseous media.

Approvals

EU type test approval as per EU Gas Appliance Directive.

GW CE-0085 AP 0170

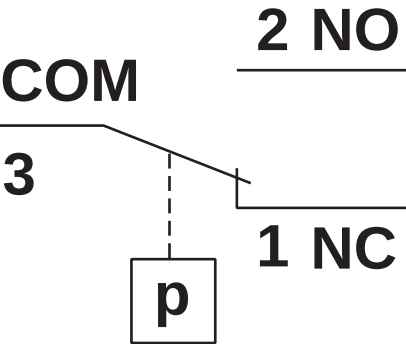
Approvals in other important gas-consuming countries.

Functional description
GW pressure switch

The control unit responds to pressure.
If the set reference value is exceeded
or undershot, the circuit is switched
on, off or over.

GW switching function

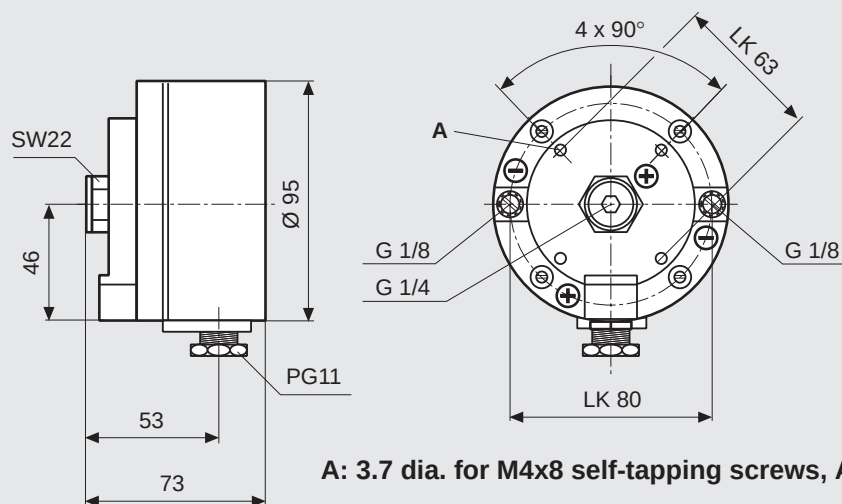
As pressure rises:
1 NC opens, 2 NO closes
As pressure falls:
1 NC closes, 2 NO opens



Specifications

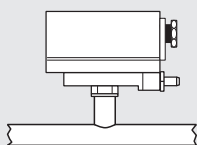
Max. operating pressure	GW 1500 GW 6000	3000 mbar 7200 mbar	(300 kPa) (720 kPa)
Pressure connection	G 1/4 female thread on centre of housing underside as per ISO 228. When using GW 6000 over 4 bar, insert transition nipples with self-tapping screw union.		
Temperature range	Ambient temperature Medium temperature Storage temperature	-15 °C to +60 °C -15 °C to +80 °C -15 °C to +80 °C	
Materials	Housing Switch Protective hood Diaphragms NBR; Switching contact	aluminium die casting PBTB polycarbonate copper forging alloy fine silver (Ag)	
Switching voltage	AC eff. DC	min. 10 V min. 12 V	max. 250 V max. 48 V
Nominal current	AC eff.	10 A	
Switching current	AC eff. AC eff. AC eff. DC DC	5 A 3 A min. 20 mA min. 20 mA max. 1 A	at cos φ 1 at cos φ 0.6
Electrical connection	At screw terminals via PG* 11 cable gland (* = heavy-gauge conduit thread)		
Degree of protection	IP 54 as per IEC 529 (DIN EN 60 529)		
Setting tolerance	±15% switching point deviation referred to reference value, adjusted as pressure rises, vertical diaphragm position		

Dimensions [mm]
GW

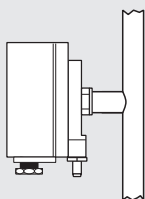


A: 3.7 dia. for M4x8 self-tapping screws, Art. No. 125 435

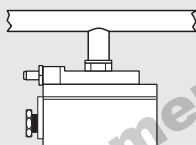
Installation position



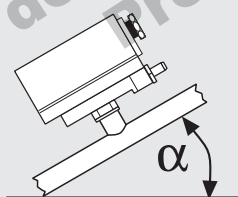
Standard installation position



When installed vertically, the pressure switch switches at a pressure lower by approx. 0.5 mbar.



When installed horizontally overhead, the pressure switch switches at a pressure lower by approx. 1.0 mbar.



When installed in an intermediate installation position, the pressure switch switches at pressure deviating from the set reference value by max. ± 0.5 mbar.

Technical data

1 mbar = 100 Pa = 0.1 kPa ≈ 10 mm WS

1 Pa = 0.01 mbar ≈ 0.1 mm WS

Type	Version	Order No.	Setting range Δp mbar		Switching difference Δp mbar
Pressure switch for gas and air	GW 1500	077 222	300-1500		≤ 30
	GW 6000	066 555	1000-6000		≤ 300

Standard designs

Single pressure switch

GW... [AG-PG-MS6-V0]

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



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