

# Gas Pressure Switch | C6097A

The C6097A Gas Pressure Switch is a pressure detector for city gas, natural gas, LP gas and air.

The external electrical circuit is turned on and off according to the preset value. This device can be used in a variety of ways including detection of maximum/minimum gas/air pressure supplied to the gas burning device, burner blower interlock, or filter clogging. As a supplementary part (sold separately), there is a switch action display light for switching the gas pressure.



## Specifications

Applicable fluids	City gas, natural gas, LP gas, air				
Model No.	C6097A0110	C6097A0210	C6097A0310	C6097A0410	C6097A0510
Control action	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
Setting range	0.1 to 1 kPa	0.25 to 5 kPa	3 to 15 kPa	10 to 50 kPa	10 to 70 kPa
On-off differential (nominal value)	40 Pa (fixed)	60 Pa (fixed)	280 Pa (fixed)	700 Pa (fixed)	800 Pa (fixed)
Maximum allowable pressure	20 kPa	30 kPa	50 kPa	150 kPa	150 kPa
Setting accuracy	0.1 ± 0.06 kPa, 1 ± 0.15 kPa	0.25 ± 0.15 kPa, 5 ± 0.75 kPa	3 ± 0.9 kPa, 15 ± 2.25 kPa	10 ± 2.4 kPa, 50 ± 7.5 kPa	10 ± 3 kPa, 70 ± 8 kPa
Output	SPDT contact output On pressure decrease, terminals 1-3 closed, terminal 2-3 open. On pressure increase, terminals 1-3 open, terminals 2-3 closed.				
Contact rating	Resistive load: 250 Vac 5 A Inductive load: 250 Vac 3 A (power factor: 0.6) Minimum contact operating current and voltage: 50 mA, 24 Vdc				
Insulation resistance	100 MΩ min. between each terminal and non-live metal part with a 500 Vdc megger				
Dielectric strength	Between terminals with the same polarity: 1,000 Vac 50/60 Hz for 1 min Between each terminal and non-electrically charged metal parts: 1,500 Vac 50/60 Hz for 1 min Leakage current of 1 mA or less under these conditions				
Contact resistance	Initial 100 mΩ max. (measured by voltage drop method at 6 to 8 Vdc and 1 A)				
Allowable ambient temperature	-15 to +60 °C (without freezing or condensation)				
Allowable flow temperature	-15 to +60 °C (without freezing or condensation)				
Durability	Over 100,000 operations at the rated contact voltage and current				
Wiring terminal	M3.5 screw terminal				
Mounting posture	Vertical, or horizontal with the pressure setting dial facing upwards.				
Protection	IP54				
Weight	260 g				
High-pressure gas contacting material	Die-cast aluminum (housing), NBR/nitrile rubber (diaphragm)				
Accessories (sold separately)	Switch operation indicator lamp (100/200 Vac), Model No.: 81404156				

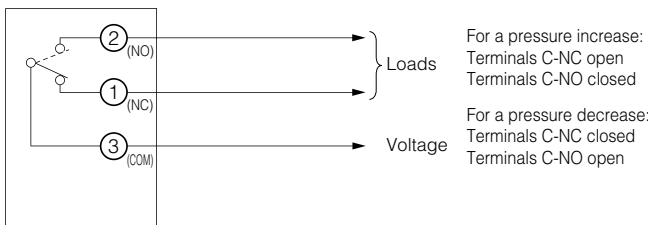
## Model No. configuration

Name	Model No.
Gas pressure switch	C6097A0110
	C6097A0210
	C6097A0310
	C6097A0410
	C6097A0510

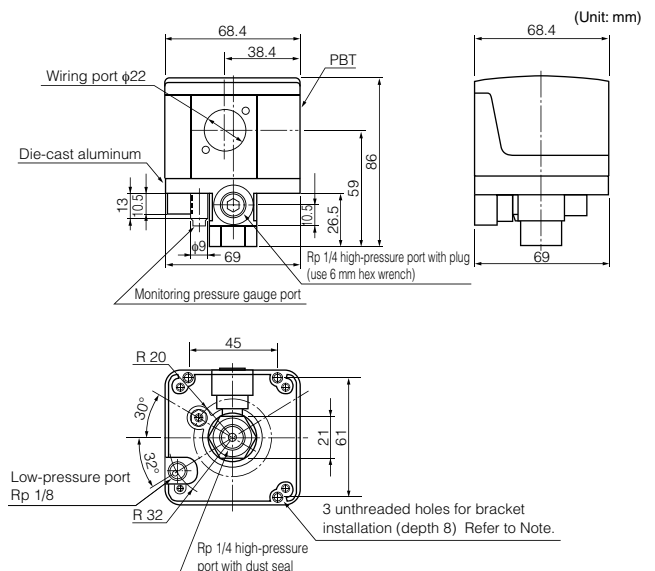
## Optional parts (sold separately)

Name	Model No.
Switch operation indicator lamp (100/200 Vac)	81404156

## Wiring diagram



## External dimensions



Note: Use M4 self-tapping screw or provide the hole with M4 threads before use.