

37000 Series

PRESSURE SWITCHES

- **Versatile and Reliable.**
- **Adjustable Range and Differential Settings.**
- **For use with Fluorinated Refrigerants, Air and Water.**
- **Dual Scales.**
- **Automatic or Manual Reset Versions.**
- **Compact Size.**



Application

The 37000 Series has been designed for the control of pressurised systems up to 450lbf/in² (30bar). Applications include refrigeration plant, water systems, air compressors, pressurised central heating systems, beverage dispensers and process control.

Physical Description

The 37000 range of pressure switches are versatile and robust, with easily adjustable range and differential settings (The differential can be adjusted independently of the range setting). The pressure switches are made up of three elements, the case, the pressure unit and the switch. The pressure unit is a seamless brass bellows used on refrigeration or pressurised heating system applications. A restrictor is incorporated into the pressure element to minimise the effect of pump pulsations. The switch is a single pole change over switch that enables wiring for make on rise or break on rise. Automatic and manual reset versions are also available. The cable entry is suitable for a 16mm cable gland.

Operation

The range and the differential (Automatic Reset Versions) are set using the adjustment screws at the top of the unit before being locked in position. Electrical connection is via three clamp down type terminals, terminal 1 common, terminal 3 make on rise and terminal 5 break on rise. The switch will change over from terminal 5 to terminal 3 when the system pressure reaches the range set point. The switch will not change back until the pressure has fallen to the range value less the differential value. E.g. If the range setting is 2.5bar and the differential setting is 0.5bar, the switch will change over when the pressure has risen to 2.5bar and will not change back until the pressure has fallen below 2.0bar.

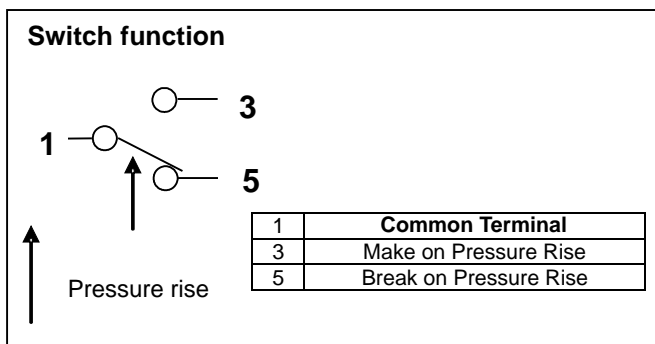
Technical Specification

Electrical

Rated Voltage (V)		125/250V AC
Rated Amps (A)		
Non-inductive current		12
Inductive current	Full Load	10

Switch - Single Pole Double Throw

Switch function



Mounting

The 37000 Series pressure switches are supplied with a mounting bracket as standard.

Pressure Surges

Some BSP connection switches are fitted with a restrictor orifice to reduce system transient pressure surges at the bellows. See model table below for details

Weight (approx.)

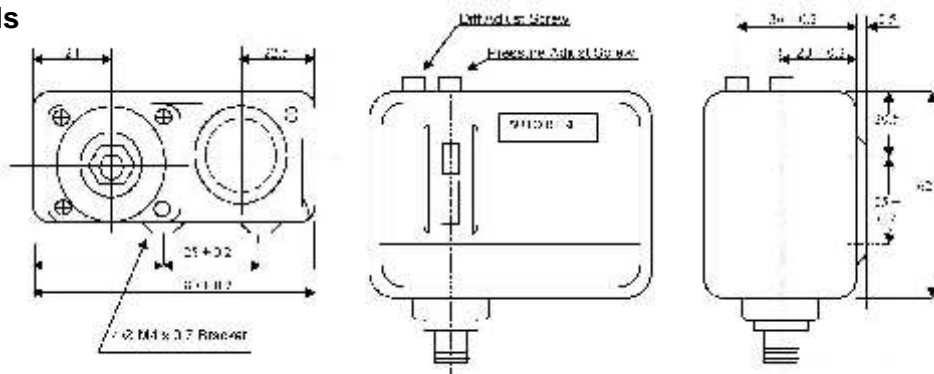
Auto reset	313g
Manual reset	300g
Media	

For use with fluorinated refrigerants, air and water
(Min/Max Media Temperature: -10 to 120°C)

Models

Model	Range (bar)		Differential (bar)		Restrictor	1/4" BSP	1/4" Flare & Capillary	Max. Over Pressure
	Min.	Max.	Min.	Max.				
37001	-0.7	6	0.6	4	✓	✓		16.5
37002	-0.7	6	Manual Reset (3 bar fixed)		✓	✓		16.5
					✓	✓		
37003	8	24	2	5	✓	✓		16.5
37004	-0.7	3	0.2	1.5	✗		✓	16.5
37005	-0.7	3	0.2	1.5	✓	✓		16.5
37006	-0.7	6	0.6	4	✗	✓		16.5

Outline Details



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