

P133 Series Differential Air Pressure Switch



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P133 Series

Differential Air Pressure Switch

Johnson Controls P133 series differential air pressure switch is especially suitable for control and safety functions in air-conditioning systems in buildings, offices, hospitals and more. It is installed in environments with air and non-aggressive and non-inflammable gases. This switch senses a change in the (differential) pressure as the airflow changes. The (differential) pressure is applied to the two sides of a diaphragm in the control. The spring-loaded diaphragm moves and actuates the switch. The series can also be used to detect small positive gauge pressure or to detect a vacuum.



Features

- One switch to measure relative pressure, vacuum or differential pressure
- Stylish aesthetic design
- Good long-term stability
- IP54 protection



Typical Applications

- Detect clogged filter
- Air proving in heating or ventilation ducts
- Maximum airflow controller for variable air volume system
- Monitor fan operation



Selection Table

*Models	Measuring range	Switching differential ΔP
P133A-2-PKC-C	20-200Pa	10Pa
P133A-5-PKC-C	50-500Pa	20Pa
P133A-10-PKC-C	200-1000Pa	100Pa
P133A-25-PKC-C	500-2500Pa	150Pa

* Please contact Johnson Controls for more models.

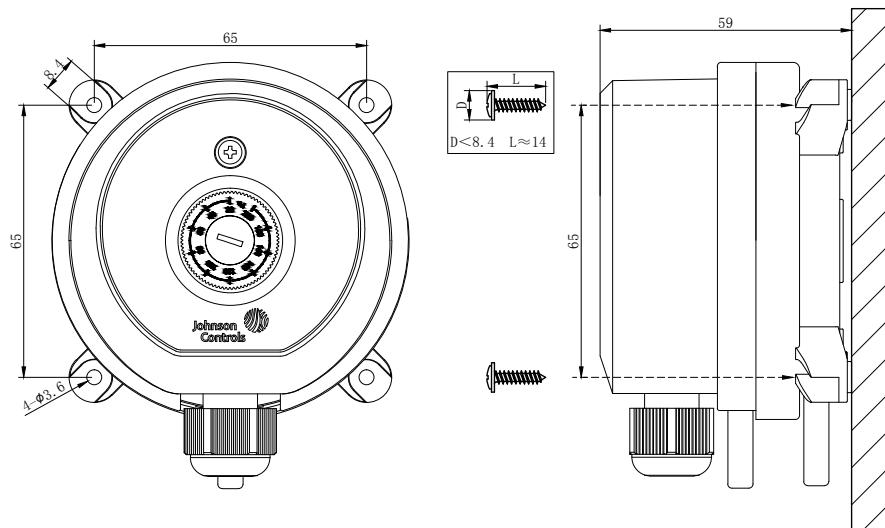


Specification

Medium	Air, non-inflammable and non-aggressive gases
Max. Pressure	10kPa
Microswitch	SPDT changeover contact
Electrical rating	Contact capacity max: 1.5A(0.4A)/250VAC
Mechanical Life	1,000,000 cycles
Protection	IP54
Accuracy pressure	$\leq \pm 15\%$ (min. 10Pa)
Pressure connectors	P1(+) Connection for higher pressure
	P2(-) Connection for lower pressure
Electrical connection	Spade terminal 6.35 x 0.80 mm or screw terminals
Cable entry	PG11
Temperature Range	Operating temperature: $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
	Storage temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Material	Cover: PC
	Case: PA66
	Bottom: POM
	Diaphragm: Silicon
Approvals	CE
Accessories	Standard Kit: 1 L type metal bracket, 5 bracket screw, 2m of PVC hose, 2 PVC connectors, 5 mounting screw, 3 female quick plug terminal



Dimension (mm)



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