

Description

The duct air flow switches is a kind of heating, cooling and air conditioning equipment, which is used to control and monitor air, non aggressive gases flow in ducts, chambers, etc. The duct air flow switch provides feedback of air flow in HVAC duct work. It can be connected directly to the control system as a feedback point or can be directly interlocked to prevent operation of heating and cooling equipment when there is no air flow. Stainless steel paddle resists corrosion. Adjustable spring tension screw allows setting the air flow trip point. The paddle can be trimmed down for higher flow applications. The cable enters through the water tight gland, or the gland can be removed and replaced with an EMT or flex connector for wiring with EMT or metal flex.



Features:

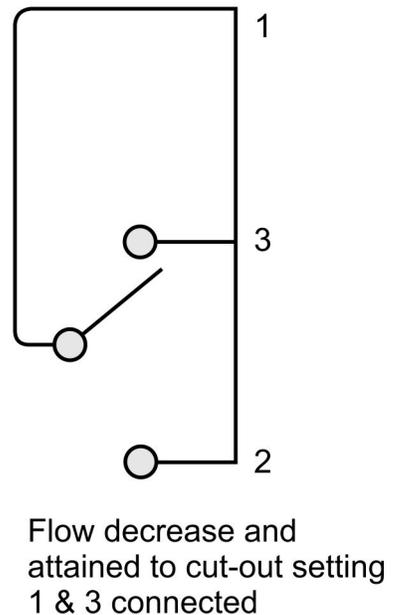
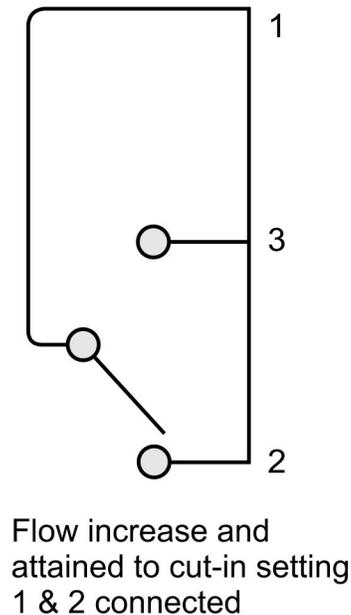
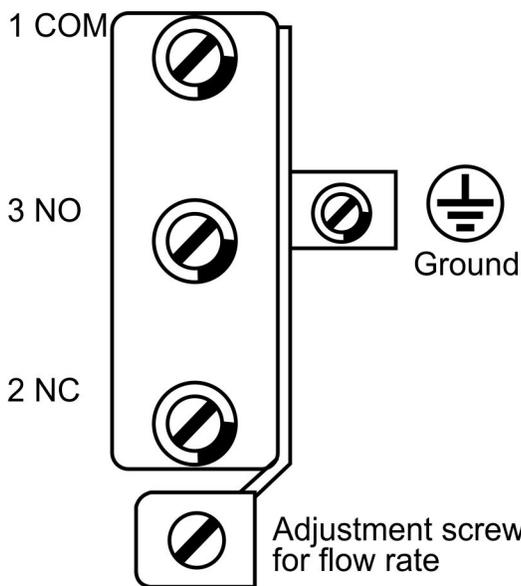
- Renovated SPDT micro switch ensures the reliable switch function
- Stainless steel paddle
- Cut-in and cut-out
- Brass level
- IP65 housing
- 15(8A) 250VAC switch rating
- Max.liquid temp 120°C
- Max working pressure 13.5Bar

Specifications

Type of operation	On/Off, single-stage, micro switch
Output	SPDT 15(8A) 24/250VAC
Flow rates switching	
-Cut-out	Min. 1.0 m/sec, Max. 8.0 m/sec
-Cut-in	Min. 2.5 m/sec, Max. 9.2 m/sec
Flow rate setting adjustment	Internal screw
Sensing element	Paddle
Paddle size	3.2 x 6.9 in. (80 x 175 mm)
Liquid applications	Air and non aggressive gases
Paddle material	Stainless steel
Permissible ambient temperature	
- Housing	-40°F to 185°F (-40°C to 85°C)
-Paddle	14°F to 185°F (-10°C to 85°C)
Operating temperature	14°F to 185°F (-10°C to 85°C)
Permissible ambient humidity	10~90% RH, non-condensing
Cable entry	M18 fitting
Housing	
-Material	Fire Resistance ABS,UL NO.E56070
-Protection	IP65
-Color	White
Installation	Duct mounted



Wiring Diagram



Installation

The flow switch should be mounted into a duct or chamber where the air paddle can freely point horizontally downwards. To avoid air swirl and paddle instability, straight zones should be provided for a length of 5 times the diameter of duct upstream and downstream from the installation location.

Notes:

The units are factory calibrated to the minimum switch-off value. To increase the set value, adjust the range screw clockwise. Due to the risk of fracture at air speeds of higher than 5.0 m/sec, the paddle must be cut off on the marked side. When the paddle is cut off, the minimum cut-out value increases from 1.0 m/sec to 2.5 m/sec.

Dimension

