Specifications subject to change without notice. | USA 150619 | Page 1 of 2

DESCRIPTION

Duct air flow switches.

APPLICATION

Control and monitor air and non aggressive gases flow in ducts, chambers, etc., of heating, cooling, and air conditioning equipment.

FEATURES

- NEMA 1 & 4 housing
- Cut-in and cut-out

SPECIFICATIONS

Type of operation Output Flow rate switching - Cut-out - Cut-in Flow rate setting adjustment Sensing element Paddle size Paddle w/level - Length **Flow applications** Paddle material Paddle level material Permissible ambient temperature - Housing - Paddle Permissible ambient humidity Wire - Connection - Size **Cable entry** Housing - Material - Color - Protection - Dimensions Installation Ship weight

Part Numbers

1 SPDT, NEMA 1 1 SPDT, NEMA 4

WIRING DIAGRAM

Increased flow and attained cut-in setting: Red & White connected Decreased flow and attained cut-out setting: Red & Blue connected

- Stainless steel paddle
- Brass level

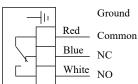
On/Off, single-stage, micro switch 1 SPDT, or 2 SPDT, 24/250 VAC, 15 (8) A Min. 197 ft/min (1.0 m/sec)* Max. 1,575 ft/min (8.0 m/sec) Min. 492 ft/min (2.5 m/sec) Max. 1,811 ft/min (9.2 m/sec)

Internal screw Paddle 3.2 x 6.9 in. (80 x 175 mm) 7.9 in. (200 mm) Air and non aggressive gases Stainless steel Brass

-40°F to 185°F (-40°C to 85°C) 14°F to 185°F (-10°C to 85°C) 10...90% RH, non-condensing Terminal with wire retaining screws Maximum 14 AWG (2.5 mm²) M20 fitting, replaceable by 1/2" conduit connector Base: Steel, galvanized Cover: ABS, fire retardant Dark gray/blue NEMA 1 (IP 40), or NEMA 4 (IP 65) 4.3 x 2.8 x 2.8 in. (108 x 70 x 72 mm) Duct mounted 1.6 lb (0.7 kg)

DBSL-1EPL-1US DBSL-1EPL-4US

DBSL-1EPL



Factory calibrated to minimum cut-out switching / high sensitivity
To adjust for less sensitivity / higher flow rate, turn adjustment screw located below switch clockwise.







DBSL



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.

NOTE

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 984 ft/min (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 197 ft/min (1.0 m/sec) to 492 ft/min (2.5 m/sec).

DBSL DIMENSIONS (mm)

