Air Flow Switch

SL

FUNCTION

Air or non-aggressive gas flow control.
Alarm signal for flow shortage.

APPLICATIONS

Well-suited in air ducts, air conditioning and air handling systems.

MODEL	MIN. CUT-OUT VALUE ft/min (m/s)	MIN. CUT-IN VALUE ft/min (m/s)	MAX. CUT-OUT VALUE ft/min (m/s)	MAX. CUT-IN VALUE ft/min (m/s)	MAX. AIR TEMP. °F (°C)
SL1E-US	197 (1.0)	492 (2.5)	1,575 (8.0)	1,811 (9.2)	185 (85)

Accessories	DBZ-08 - Stainless steel AISI 301 paddle for air flow switch

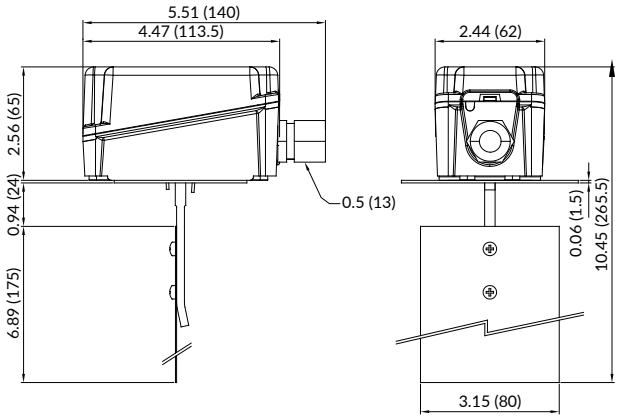
Note: The flow switch is supplied with paddles model DBZ-08.
The value indicated on schedule have been measured with the flow switch mounted on horizontal position.

TECHNICAL DATA

Contacts:	Dust-tight microswitch with SPDT contacts (NC/NO)
Switch capacity:	15 (8) A, 24...250 VAC
Working:	-4°F to 149°F (-20°C to 65°C) 10...90% RH (non-condensing)
Internal duct temperature:	-40°F to 185°F (-40°C to 85°C)
Body:	Brass
Paddles:	Stainless steel AISI 301
Conduit connection:	1/2" NPT
Housing:	Base in ABS, transparent PC cover
Storage:	-40°F to 185°F (-40°C to 85°C) < 95% RH
Protection:	IP65, Class I (only casing, external side duct)
Size:	10.43 x 5.51 x 3.94 in (265 x 140 x 100 mm)
Weight:	1.4 lbs (0.63 kg)
CE standards:	EN 60730-2-18:2000-07

DIMENSIONS

in (mm)

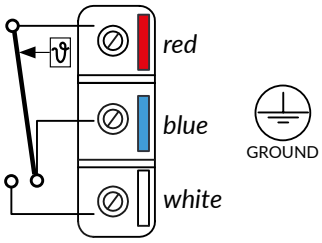


ORDERING INFORMATION

PART NUMBER	DESCRIPTION
SL1E-US	Air flow switch, SPDT, 15 (8), 24..250 VAC contact rating, -4°F to 149°F / 10 to 90% RH non-condensing operating, 1/2" conduit connection, includes DBZ-08 paddles, IP65

WIRING DIAGRAM

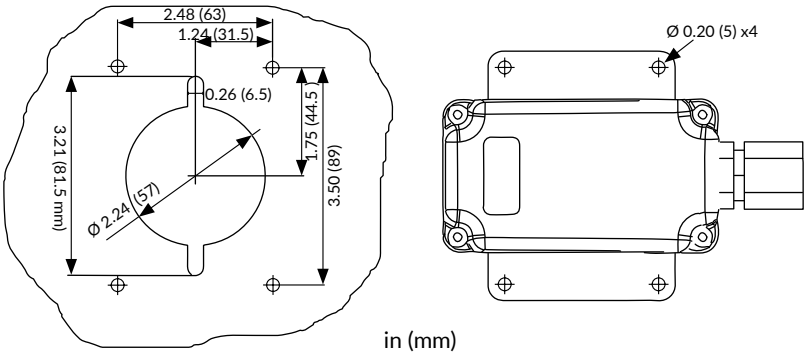
Connect to red and to white terminals (fig. 1). The contact red-white opens when the flow drops below the set level. When the flow is missing the contact red-blue closes and can be used as a signal or alarm contact.



INSTALLATION

The flow switch may be installed in any position, as long as it is following the stream. On vertical pipes, balance the device for compensating the weight of the vane. Fit the provided gasket between device and pipe.

Note: The flow switch is factory calibrated to the minimum switch-off value. A higher value can be selected by turning the adjustment screw to the right. Due to the risk of fracture at higher air speed than 5 m/s, the vane must be cut off on the side where marked. As a result of this, however, the factory-set minimum switch-off value will increase from 1 m/s to 2.5 m/s. In order to avoid air turbulences that diminish stability of the vane, steadying zones should be provided for a length of 5 times the diameter before and after the location of installation.



in (mm)