INSTALLATION

1. Carefully unpack switch and remove any packing material from lower housing. Trim the vane at the appropriate mark for the size of pipe being used. See actuation/deactuation chart. CAUTION: Mechanical shock or vibration can cause permanent damage to the reed switch. Take care to avoid dropping the unit on hard surfaces or impacting the switch assembly.

2. Apply pipe thread sealant tape or pipe thread sealant to the 1/2˝ male NPT mounting threads and install switch in the system piping with the arrow on side pointing in the direction of flow.

3. Connect wiring in accordance with local electrical codes. A red cap indicates NC (normally closed) contacts, while a black cap indicates NO (normally open) contacts. Normally closed contacts open and normally open contacts close when increasing flow actuates the reed switch.

4. Inductive, capacitive and lamp loads can all create conditions harmful to the reed switch.

A) Inductive loads can be caused by electromagnetic relays, electromagnetic solenoids and electromagnetic counters, all with inductive components as the circuit load.

B) Capacitive loads can be caused by capacitors connected in series with or parallel to the reed switch. In a closed circuit the inductive components as the circuit load.

C) Lamp loads can be caused by switching lamp filaments which have low cold resistance.

In addition to these causes, exceeding any of the maximum electrical ratings can lead to premature or immediate failure. This includes inrush and surge currents greater than the maximum switching current. Use caution when evaluating system loads and current. To accommodate these conditions, see diagrams on the reverse which depict possible solutions.

MAINTENANCE

Following final installation of the Model V11 Flow Switch, no routine maintenance is required. A periodic check to confirm proper actuation/deactuation is recommended. The Model V11 Flow Switch is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.

SPECIFICATIONS

Temperature Limits: 200°F (93°C).
Pressure Limits: Brass Body 1000 psig (69 bar), Stainless Steel Body 2000 psig (138 bar).
Process Connection: Lower housing; choice of standard brass or optional 303 stainless steel. Switch housing; polybutylene, terephthalate (PBT).
Vane: 301 stainless steel standard, 7/16” (11 mm) wide by .187˝ (4.75 mm) deep.
Mounting Orientation: Install with index arrow pointing in direction of flow. Can be mounted in any position.
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REED SWITCH PROTECTION CIRCUIT INFORMATION BULLETIN
READ INFORMATION BELOW BEFORE INSTALLING YOUR NEW REED SWITCH CONTROL!
Exceeding the current capacity of this reed switch control may cause FAULTY OPERATION! Be aware of the inductive, capacitive or lamp loads you may be placing on the reed switch control. The circuits below outline possible solutions to preventing overloads due to inrush or surge currents exceeding maximum or when the switch current and product of the inductive back EMF exceed the switch's power rating. Also the circuit for prevention of overload when switching filament lamps (low “cold” resistance) is outlined below. Failure to follow these measures to protect reed switch contacts may cause the contacts to weld together or result in premature wear.

Possible Circuit Solutions Indicated by Dashed Lines

Inductive Loads
Possible causes –
An electromagnetic relay, electromagnetic solenoid, or electromagnetic counter with inductive component as circuit load.

Capacitive Loads
Possible causes –
A capacitor connected in series or parallel with reed switch control. In a closed circuit, a cable length (usually greater than 150 ft (45.72 m) used to connect reed switch may also introduce static capacitance.

Lamp Loads
Possible causes –
A tungsten filament lamp load.

Do not subject reed switch control to excessive shock and vibration, including:
• Bending or placing force loads on reed switch housing
• Placing pull-out force on lead wires

NOMENCLATURE:
V11 - S NO A - X - BUSH
1 2 3 4 5 6
1 = Basic Model Number
V11 - Flow Actuated
2 = Housing Material
B - Brass
S - Stainless Steel
3 = Electrical State
NO - Normally Open, contacts close with flow increase.
NC - Normally Closed, contacts open with flow increase.
4 = Vane Type
A - V11 Vane Assembly
B - V6 Vane Assembly
C - V6 Reinforced Vane Assembly
5 = Lead Wire Length
X - Wire Length in feet. (6 would be 6 feet. 6 feet is the standard).
6 = Options (optional)
BUSH - 1/2 to 1 inch flush bushing.
SST - Stainless Steel Tag

Example: V11-SNOA-6-BUSH