

Flow Monitors - Flow Switches Excess Flow Valves - Flow Meters



Welcome to CTE Chem Tec Equipment.

Leading manufacturers of Flow Monitors, Flow Meters, Flow Switches, and Excess Flow Valves for 35 years.

Flow Switches (also known as Flow Monitors and Flow Sensors) give switch contact at a predetermined flow rate. Flow Meters provide varying electrical output with fluid flow. Excess Flow Valves are normally open valves that close automatically at a predetermined flow rate.

We specialize in the lower flow ranges -- i.e. 120 SCFM air, 20 GPM water, or less. Flow Switches have fixed and adjustable models. All categories have a variety of flow ranges and pipe sizes.

CTE is the only manufacturer of all Teflon® Flow Switches and Flow Meters.

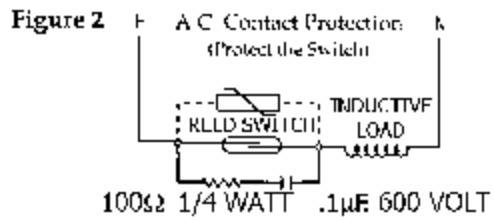
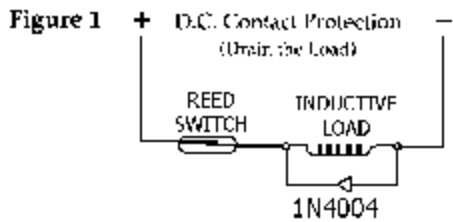
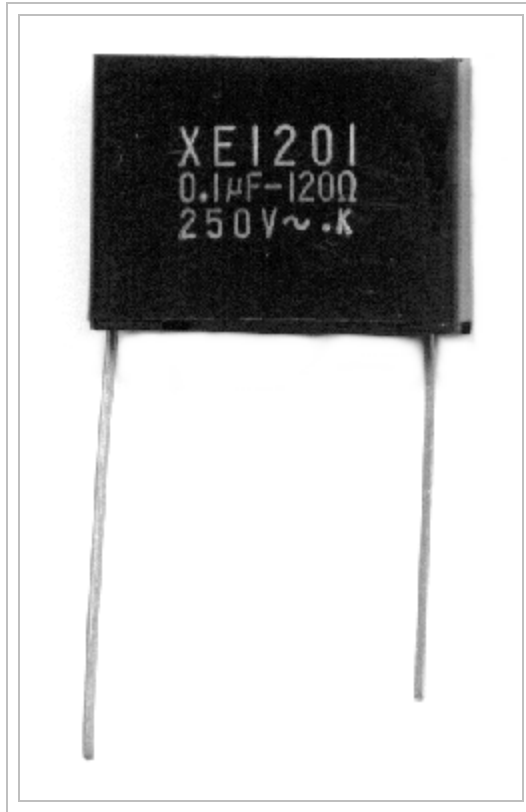
Important Notice: All of our products containing reed switches are now available with digital solid state switching.

**Please check out our exciting and innovative
NEW PRODUCTS and ADD-ON's
to our existing product line.**

**INSTALLATION & MAINTENANCE MANUALS are now
available in PDF format.**

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Accessories



Catalog Page Information for Arc Suppressor

Contact Protection Requirements

When switching inductive loads such as relays, solenoids and transformers, reed switch contacts require protection in order to insure long dependable life.

When current is interrupted, the inductance or electrical inertia of the load generates a large high frequency voltage, which spreads across the switch contacts. If the voltage is large enough, it can break down the medium in the gap between them, making a conductive path. This phenomenon, called "arcing" is the spark you see. Arcing can cause the contacts to burn, weld together or stick; thus, giving unreliable performance. The purpose of protection circuits is to prevent arcing, by shortening this voltage through an alternate path.

Recommended Protection - D.C.

A 1N4004 diode (or equivalent) connected cathode-to-positive, as shown in Figure 1 (see above), is recommended. The diode does not conduct when the load is energized, but conducts and shorts out the generated voltage when the switch opens. The generated voltage always acts in series with the applied voltage

Recommended Protection - A.C.

A resistor and capacitor, connected in parallel with the switch, as shown in Figure 2 (see above), is recommended. The capacitor is a high impedance to 60 hertz, but is essentially a short circuit to high frequencies of generated voltages.

Transient suppressors or varistors may also be used to dissipate the transient and protect the switch contacts.



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