SVF FLOW CONTROLS

TECH brief

Introducing the Nexus Q30 Reed Switch Technology

№. 2008

Today's process control systems utilize a range of switches, sensors and instrumentation that operate at low power.

The ***Nexus Q30 switch*** is a hermetically sealed proximity switch that provides an advanced and reliable method of automated valve position monitoring for today's sophisticated process control systems. The highest quality reed switch available are embedded and encapsulated in a flexible moisture-proof epoxy compound, protecting them from contaminants and shock to 38g.

The Q30 requires "No Power" and is actuated with neodymium magnets sealed in their cams to protect and prevent dislodgement and subsequent system failure.

Switch/Sensor Code	Switch/Sensor Type	Circuit Type	RATING	AMBIENT TEMPERATURE
Q30	MAGNETIC REED SWITCH	SPDT	5-240 VAC/VDC 300mA	-25 °C to 75 °C -13 °F to 167 °F

Applications

The Q30 is available for the entire range of Nexus products: ***Nexus-LS, LX, LP and LPX***

Areas with corrosive or humid environments that could corrode exposed contacts

Critical position monitoring applications requiring reliability and higher cycle life

Class 1, Division 2 environments requiring hermetically sealed contacts or non-incentive circuits.

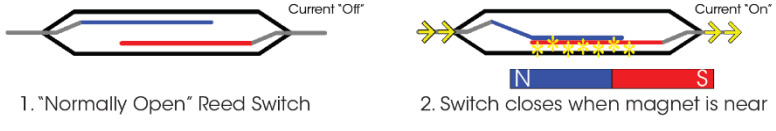
Article 501-3 (b) of the NEC (National Electric Code) permits the use of general purpose enclosures(such as the Nexus-LS) in Class 1, Division 2 locations when the current interrupting contacts are sealed within a hermetically sealed chamber.

Intrinsically Safe - These switches are passive devices (simple apparatus) and can be used in Intrinsically Safe applications with an approved current and voltage-limiting barrier.

Easy to integrate into a PLC (Programmable Logic Controller). All that is required, is to apply your supply voltage on one reed and connect the other reed to the PLC input module or any device that has a low power consumption rate.

The ***Nexus-PS*** also features Reed Switch technology.

A Reed Switch consists of two ferromagnetic blades (generally composed of iron and nickel) hermetically sealed in a glass tube.The blades overlap internally in the glass capsule with a gap between them, and make contact with each other when in the presence of a magnetic field.



1. "Normally Open" Reed Switch

2. Switch closes when magnet is near

Nexus-PS

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