

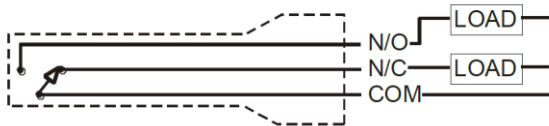
ER Position Switches

SPECIFICATIONS:

Contacts

Single Pole, Double Throw, Form C

Wiring Diagram



Red – Normally Closed (N/C)

Blue – Normally Open (N/O)

Black – Common (COM)

Wire and Connection Specifications

- PVC insulated lead wires
- 18 AWG
- 36" lead length
- ½" NPT conduit connection

Electrical Ratings

4A @ 120VAC/3A @ 24VDC

2A @ 240 VAC/1.25A @ 48VDC

Temperature Rating

-40 to 105°C

Sensing Range

Approximately 0.10" inches

Certifications

General Purpose

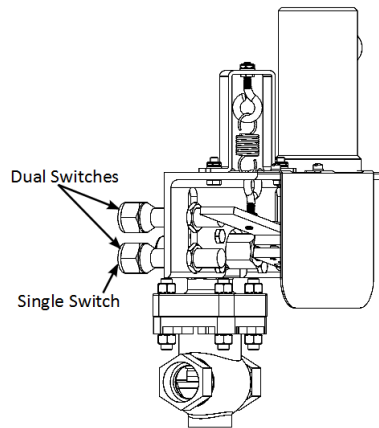
- UL General Purpose

Explosion Proof

- UL Class 1, Divisions 1 & 2, Groups A-D
- UL Class II, Divisions 1 & 2, Groups E-G
- Lead seal fitting required within 18" of switch

OPTIONS:

Option Code	Switch Qty	Indication	Certification
S	1	Energized Position	General Purpose
X	1	Energized Position	Explosion Proof
M	2	Open and Closed Positions	General Purpose
Y	2	Open and Closed Positions	Explosion Proof

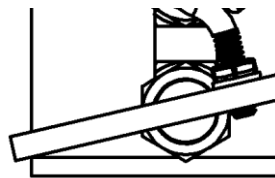


Single vs. Dual Switch Example: ER15, Energize to Open

The single switch options S and X use one switch to indicate whether the valve is in its energized state or not. In the example above, a single switch on a valve that opens when energized would indicate when the valve is open or not open. It would not indicate when the valve is closed.

The dual switch options M and Y use two switches to indicate both open and closed positions for the valve. One switch will indicate whether the valve is open or not open and the other switch will indicate if the valve is closed or not closed.

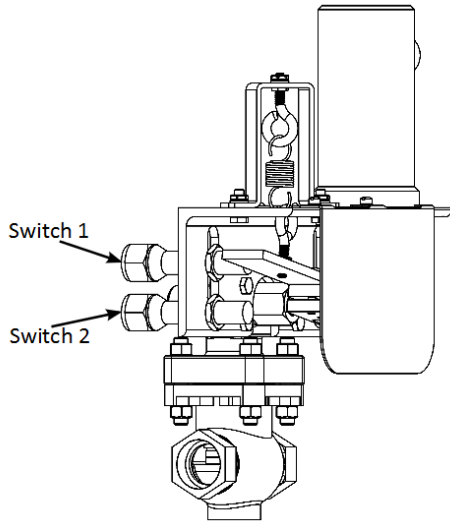
SWITCH INDICATION:



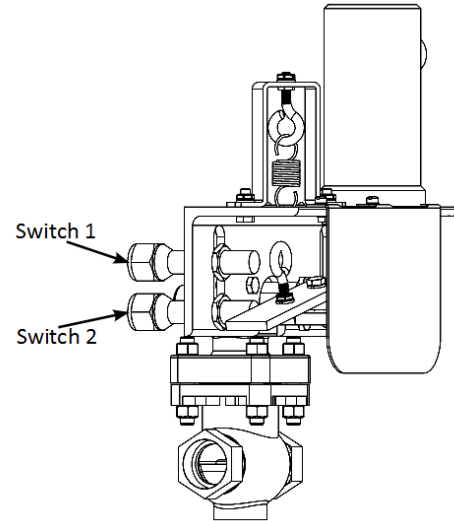
For a switch to indicate properly, the lever should be aligned with the center of the switch as shown above. The lever cannot be further away than the sensing range of approximately 0.10”.

EXAMPLE: ER15, ENERGIZE TO OPEN

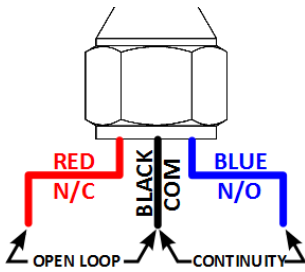
De-Energized State (Valve Closed)



Energized State (Valve Open)

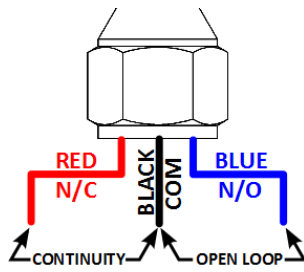


Switch 1



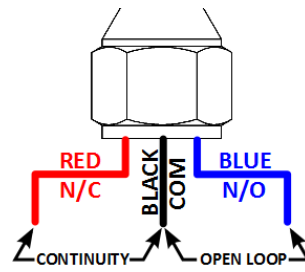
Indicates valve is closed.

Switch 2



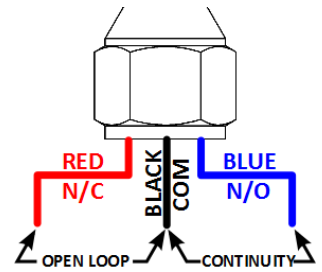
Indicates valve is not open.

Switch 1



Indicates valve is not closed.

Switch 2



Indicates valve is open.