Product Support Centre

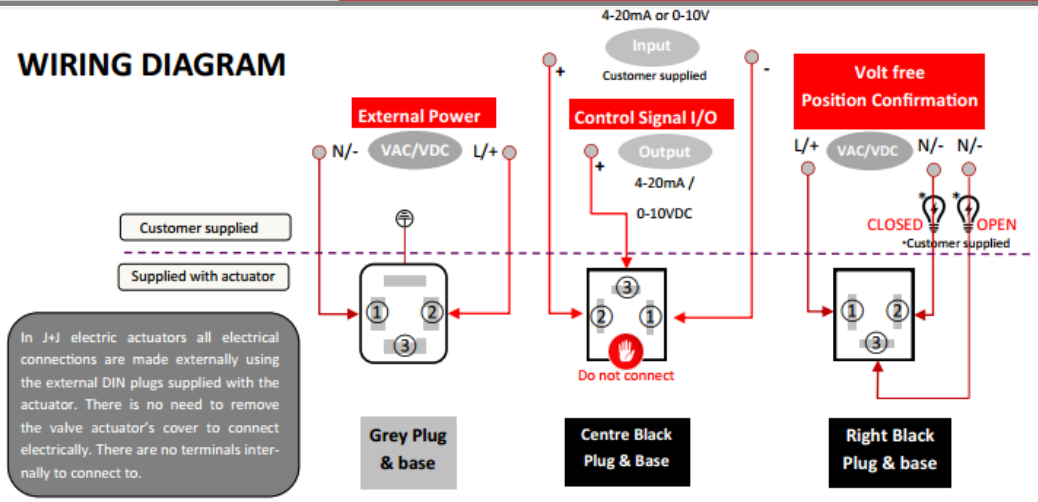
J3C/S Wiring Diagram Modulating Actuator

PRODUCT SUPPORT

The S Type
A Very Smart Red Box

Not only can the J3C S Type accept any input voltage between 24 and 240V, and the J+J plug & play function conversion kits, but now it's hugely popular LED status light is multi-colour so shows the direction of travel, or end of travel, or fault diagnosis, in colour. A very Smart Actuator indeed.

WIRING DIAGRAM



J3C-S MODULATING ELECTRIC ACTUATOR

The J3CS Modulating is used where the position of the actuator is required to be set by a control input signal. Unlike an on-off electric actuator, a modulating actuator will rarely travel from open to closed in one movement, it may only be required to alter its position by a few degrees. This is achieved by installing our DPS (Digital Positioning System) - in stalled by J+J when ordered as a modulating electric actuator.

How this electric 1/4 turn valve works (Modulating):

Power permanently connected, movement of the J3CS actuator is then proportional to an input signal, typically 4-20mA or 0-10V. The DPS processor continually compares the physical position of the J3CS output shaft to the input signal, and if a difference exists, controls the motor to eliminate the difference. An output signal is provided as standard. The reaction from the J3CS actuator to a loss of control signal can be set as below, but it will stay put on loss of external power.

Configuration options:

1) Closes on loss of control signal
2) Opens on loss of control signal
3) Stays put on loss of control signal (Fail Freeze)

The DPS in the J3CS uses the latest magnetic position sensing technology which, when combined with digital processing, produces very accurate modulating control. This is a very Smart Red Box.

Option:

It is possible to change the J3CS actuator's function by installing user friendly pug and play function conversion kits. This will provide the following alternative function:

Failsafe Modulating J3CS Actuator

Adding the BSR (Battery 'Spring Return') plug and play function conversion kit to the J3CS modulating actuator, it becomes a J3CS failsafe modulating electric actuator.

The advantage this gives is that the actuator will fail to either the open or closed position, depending on how the DPS positioner is configured, in the event of an external power failure.

The BSR failsafe system comprises of an industrial rechargeable NiCad battery and a PCB containing a trickle charger and control circuitry. It can either be installed by J+J on original supply, or retro-fitted.

BSR Failsafe plug & play kit can be added to create failsafe modulating function.