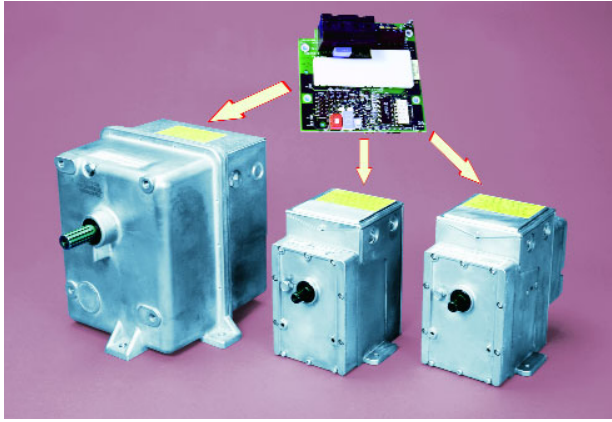


EAXX-A Series Rotary Actuators with Integrated Electronics



The new EAXX-A series actuators with integrated microprocessor based electronics retain the reliable housing, motor and gear train of the traditional EA series. They are ideal for use with our VB-7000 or VB-9000 series of valve bodies and many other commercially available rotary shaft valve bodies with crankarms. They are used for proportional control of combustion air dampers, valves and other similar applications. Most factory assembled standard base models and options are NEMA 4 and UL/cUL listed. EA series units converted to EAXX-A series units using field retrofit kits will not be agency listed. The EAXX-A series is fully compatible with the range of valve bodies found in this catalog.

The Analog Input Module

The microprocessor based integral control circuit accepts current, voltage and resistance input signals. Calibration is field adjustable. Control overrides allow forcing the actuator to either end of travel on demand. Stroke lengths of 90° or 180° are switch selectable. Other stroke lengths can be set using a simple pushbutton procedure. Direction of travel is also field selectable. Default calibration is 4 to 20mA, with other ranges switch selectable.

Features

- fully configurable on site
- snaploc™ removeable connector
- wide ranging power supply
- pushbutton or PC set up
- 3 port isolation
- LED fault indication

Specifications

Current input:

Factory set at 4-20mA. Span adjustable from 10-23mA. Zero point adjustable from 0-6mA.

Voltage input:

0-1Vdc, 1-5Vdc and 3-15Vdc, switch selectable. Other ranges can be set in the config mode.

Resistance input:

Any potentiometer value from 100 Ohms to 1000 Ohms can be used for the input signal.

Input impedance:

mA Input: 250 Ohms; Vdc input: >100K Ohms

Direction of travel:

Factory set CCW with increasing signal. Can be changed in config mode.

Stroke length:

Factory set for 180° rotation at full scale. Can be changed to 90° by setting a switch. Other lengths can be achieved in the config mode.

Control override:

Dry contact closure can force the actuator to either end of travel.

Deadband:

Adjustable from 1 to 6% of span in 0.4% increments.

Ambient temperature:

-40 to 58°C

Humidity:

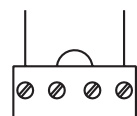
5 to 95% RH, non-condensing

Power requirements:

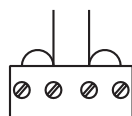
See individual model numbers. Rated to operate within 10% of nominal voltage.

EAxx-A Series Wiring and Switch Settings

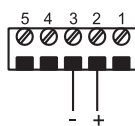
Power Connections



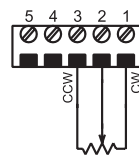
240Vac Power

120Vac or
24Vac Power

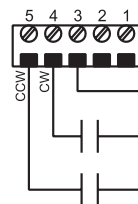
Control Connections



Voltage or mA signal



Potentiometer input



Control Overrides

Switch Settings Input Range Selection (switches 1 through 5)

4–20 mA



0–1Vdc



1–5Vdc



3–15Vdc



100–1K Ohms



Stroke Length (switch 6)

180° travel



90° travel



Analog Input Retrofit Kit for EA Standard Series Actuators

These kits provide the materials to convert suitable models of EA40, EA50 and EA70 Series actuators to respective allowable models of EA40-A, EA50-A and EA70-A analog input models. Each kit includes the circuit board, slidewire, wire harnesses and an instruction manual. Kits are not available to convert the EA60 series. Actuators converted with these kits are not UL or cUL listed.

Model Number	Used With
71-1090-000	120 and 240 Volt EA40 and EA50 Series actuators
71-1090-100	24 Volt EA40 and EA50 Series actuators
71-1090-200	120 and 240 Volt EA70 Series actuators