

Automation Tech-Tips

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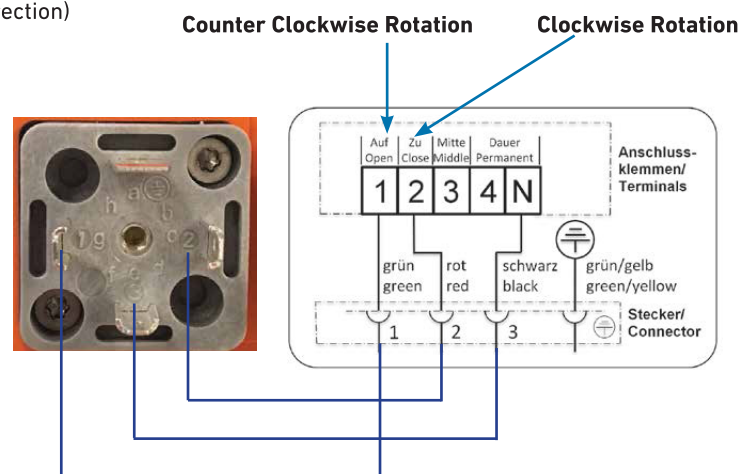
Title: Quick Start Guide: EA 25-250 Actuators

Standard Features

- Built-in open, close, and middle control options
- Built-in position feedback
- Built-in heating element
- Color-coded feedback LED

Getting Started

- Out of the box, actuator is set for 90° “Open” and “Close” operation (3-way valve custom set from factory per customer direction)
- Power valve and test functions
- Install valve
- Setting custom open, close, and middle settings (see below)



Additional functions

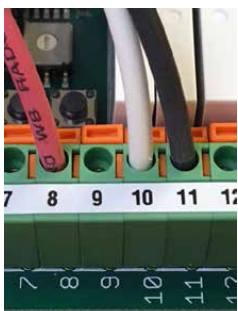
Invert color designation

Press “SET” + “CCW” for 5 seconds

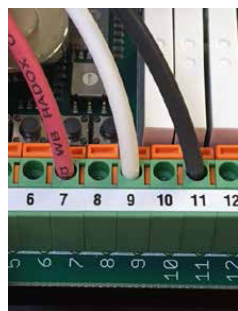
- Inverts “Red” to closed and “Green” to open (during set-point programming, “Red” is always “open” and “Green” is always “closed”)

Wiring for limit switch

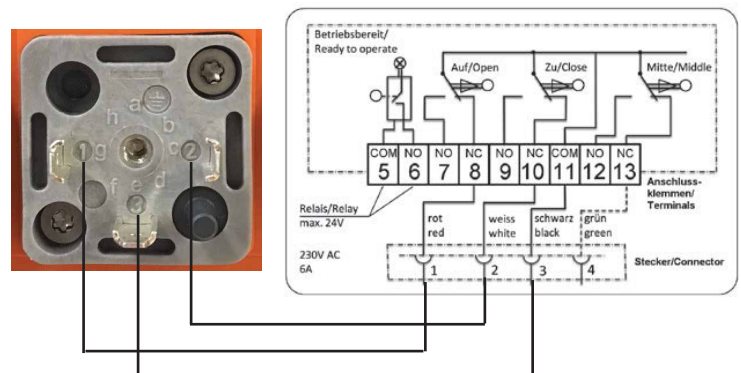
- Default wiring for open and closed feedback is “normally closed”
- Wire “Red” to 7, “White” to 9 for “normally open” (see below)



Normally Closed



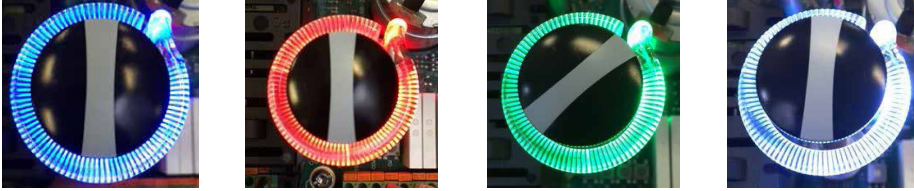
Normally Open



Connection of position feedback for positions OPEN, CLOSED, and MIDDLE (optional)

Setting custom open, close, and middle positions

- Remove cover
- LED color designation during programming:
Open - Flashing Blue/Red
Close - Flashing Blue/Green
Middle - Flashing Blue/White



SET
STORE
CCW
CW



1. Setting the open position

Press and hold "SET" button for 3 seconds

- The LED will flash blue/red
- Use the "CCW" button to rotate the valve to the open position; if already in the desired open position, press and hold "STORE" until actuator clicks and proceed to next step
- Press and hold "STORE" until actuator clicks

2. Setting the closed position

Press and hold "SET" button for 3 seconds, release, and press again

- The LED will flash blue/green
- Use the "CW" button to rotate the valve to the closed position
- Press and hold "STORE" until actuator clicks

3. Setting the middle position (optional)

Press and hold "SET" button for 3 seconds, release, and press again twice

- The LED will flash blue/white
- Use the "CCW" button to rotate the valve to the middle position
- Press and hold "STORE" until actuator clicks

Accessories

199.190.601	Fail-Safe return with integrated battery pack
199.190.604	External fail-safe return
199.190.603	Positioner board (4-20mA/0-10V)
199.190.602	Monitoring board

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