

Basic Control Functions with the Standard Interface

Basic actuator control functionality facilitates position switching in two position modes, and step and home functions in the multiposition mode. This is done via direct input signals from switch closures, relay contacts, or TTL-compatible interfaces. The control cable has six pins: however, only five are used.

If the actuator has none of the optional interfaces, the manual remote must be used to change the mode, direction of rotation, or number of positions. Refer to "Using the Manual Remote to Configure the Actuator" on page 3.

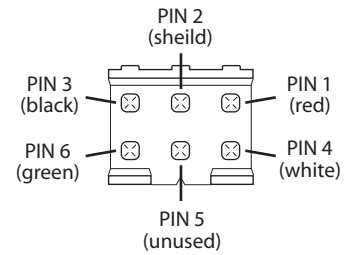


Figure 4:
Standard interface connector
(colors reference cable I-25176)

Two position modes

Pins 4 and 6 are digital inputs for switching to Position A and Position B. They can be driven either by 5 volt TTL/CMOS logic or by contact closure to ground (pin 2). In other words, applying a connection (20 msec minimum) between the "A contact" and common moves the injector to position A (inject). The injector does not move when the connection is released. Likewise, providing a contact between the "B contact" and common moves the injector to the B (load) position. Connections must be released before the opposite closure can be applied.

Position feedback is obtained from the A and B outputs. These are 5 volt tolerant, 3.3 volt logic outputs, sourcing and sinking a maximum of 10 milliamperes each. An output will go high (+3.3V) when the valve reaches the respective position.

Pin #	Function
1	A output (3.3 VDC)
2	Common
3	B output (3.3 VDC)
4	A contact
5	Unused
6	B contact

Figure 5: Two position pin assignments

Multiposition mode

Step Command

Applying a connection (20 msec minimum) between the common and "Step" pin causes the actuator to move to the next position in the currently-set direction of rotation. The connection must be opened before another step can be made.

Home Command

Applying a connection between the common and "Home" pins causes the actuator to go to the HOME position (position 1), moving in the currently-set direction of rotation. The connection must be opened before another step can be made.

Pin #	Function
1	Unused
2	Common
3	Unused
4	Home
5	Unused
6	Step

Figure 6: Multiposition pin assignments