

Additional Digital Input and Output Signals

Data Latch *(input)*

Toggling this signal from high to low (hold the signal low for a minimum of 5 ms) will cause the actuator to read the BCD Input signals. Once the signals are read, the actuator will then attempt to move to the position indicated on the BCD Input signals.

BCD Signals *(output)*

These represent the current position data in the same format used as the Input protocol.

Note: The BCD Output Signals are only updated after the motor has finished moving (see **Motor Run** below) and if there is no error (see **Error** below).

Step *(input)*

Toggling this line from high to low (hold the signal low for a minimum of 5 ms) causes the actuator to advance one position.

Home *(input)*

Toggling this line from high to low (hold the signal low for a minimum of 5 ms) moves the actuator to the Home (or first) position.

Manual Direction *(input)*

When the signal is high, the actuator will move in a forward direction. For example, when moving from position 3 to position 4, it will move the shortest distance between the two positions. When the signal is low the actuator will move in a reverse direction; when moving from position 3 to position 4, it will move the longest distance between the two positions.

Auto Direction *(input)*

When the signal is high, the Manual Direction signal dictates how the actuator moves to different positions. When the signal is low, the actuator will calculate the shortest direction between two positions and move in that direction.

Motor Run *(output)*

When the signal is high, the motor is in an Off state. When the signal is low, the motor is in an On state (moving).

Error *(output)*

When the signal is low, the actuator encountered an error with the last move request. When the signal is high, no error was detected.

Notes:

The system considers a move request for the current position to be an error, since the motor does not move.

Error signals are cleared after the next successful move.

Direction *(output)* – Factory test output.