

Application Note

AN-VTC- 26

## ***Remote Keypad Control with Auto-run***

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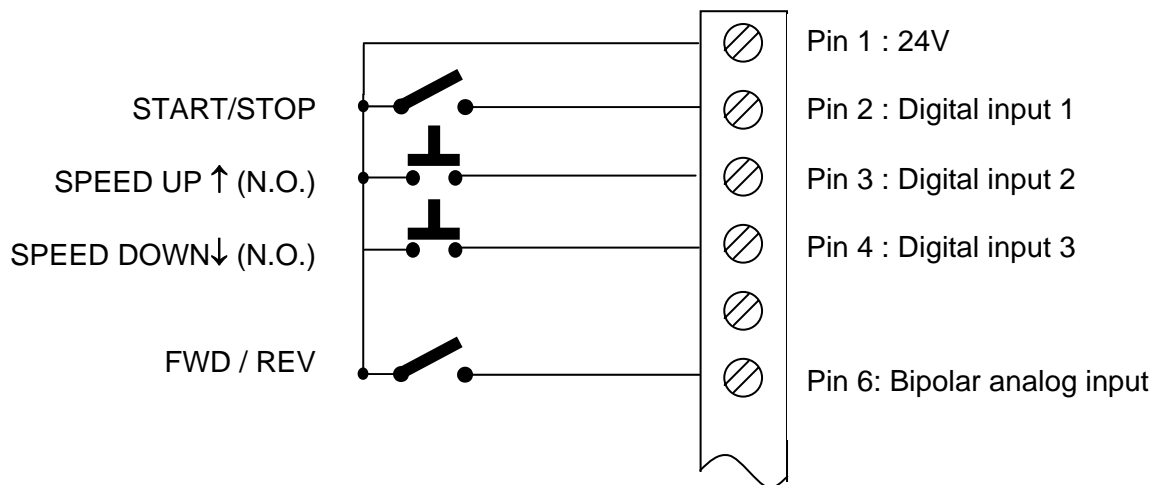
- **General:**

For applications that require speed control via pushbuttons but do not require a dedicated start button, Optidrive VTC provides a mode of operation where the drive will automatically start as soon as the hardware enable (run switch) is closed.

Additionally, the user can determine whether the drive restarts from 0Hz or from the previous operational speed by setting one of the drive parameters.

This document describes how to use the drive digital inputs to carry out remote keypad speed control with Auto-run.

- **Wiring details :**



11-way control terminal strip

- **Procedure :**

For unidirectional operation:

1. Connect the system as showed above, leaving terminal pin 6 disconnected.
2. Set P1-12 = 1. Set P2-01 = 0 (see digital input selection options in table 5.6 of the User guide).
3. Set P2-19 = 2 if the drive should always restart form 0Hz (or minimum speed limit if P1-02 > 0). Set P2-19 = 3 if the drive should restart from the speed at which it was last running prior to the last STOP.
4. Close the START/STOP switch to start the drive or open the switch to stop the drive.

5. Once the drive is running, press the UP button to increase the speed or press the DOWN button to reduce the speed.

For bidirectional operation:

1. Connect the system as showed above.
2. Set P1-12=2. Set P2-01 = 3 (see digital input selection options in table 5.6 of the User guide).
3. Set P2-19 = 2 if the drive should always restart form 0Hz (or minimum speed limit if P1-02 > 0). Set P2-19 = 3 if the drive should restart from the speed at which it was last running prior to the last STOP.
4. Close the START/STOP switch to start the drive. And open the switch to stop the drive.
5. Once the drive is running, press the UP button to increase the speed or press the DOWN button to reduce the speed.
6. Using the FWD/REV switch connected to terminal 6 to control the speed direction. Open the switch for forward operation and close switch for reverse operation.

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