



Optidrive Applications Support Library

Application Note	AN-ODE-2-026
Title	Remote Keypad Control With Autorun
Related Products	Optidrive E2
Level 2	1 – Fundamental - No previous experience necessary 2 – Basic – Some Basic drives knowledge recommended 3 – Advanced – Some Basic drives knowledge required 4 – Expert – Good experience in topic of subject matter recommended

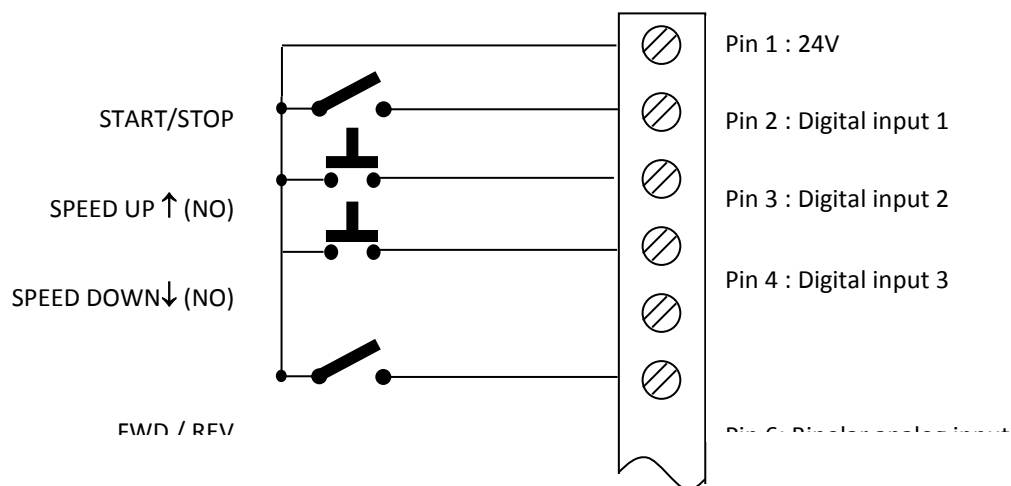
Overview

For applications that require speed control via pushbuttons, but do not require a dedicated start button, Optidrive E2 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 Diagram



11-way control terminal strip

Procedure

For unidirectional operation

- Connect the system as showed above, leaving terminal pin 6 disconnected.
- Set P-12 = 1. Set P-15 = 0 (see digital input selection options in table 5.6 of the User guide).
- Set P-31 = 2 if the drive should always restart form 0Hz (or minimum speed limit if P-02 > 0). Set P-31 = 3 if the drive should restart from the speed at which it was last running prior to the last STOP.
- Close the START/STOP switch to start the drive or open the switch to stop the drive.
- 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

- Connect the system as showed above.
- Set P-12=2. Set P15 = 3 (see digital input selection options in table 5.6 of the User guide).
- Set P-31 = 2 if the drive should always restart form 0Hz (or minimum speed limit if P-02 > 0). Set P-31 = 3 if the drive should restart from the speed at which it was last running prior to the last STOP.
- Close the START/STOP switch to start the drive, and open the switch to stop the drive.
- Once the drive is running, press the UP button to increase the speed or press the DOWN button to reduce the speed.
- Use 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.

Appendix

Revision History			
Issue	Comments	Author	Date
01	Document Creation	OS	03/08/11
02	Revised to new format	KB	24/04/14