

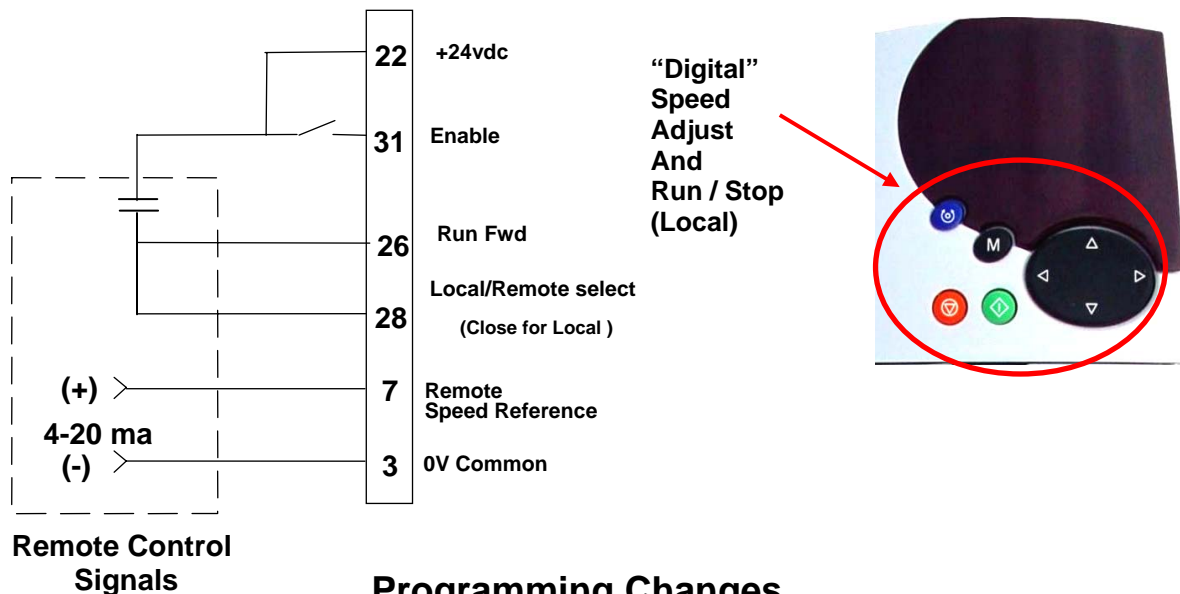
The Application Note is pertinent to the UnidriveSP Family

Non-Standard UnidriveSP Keypad Control Variations

There are many occurrences where various non-standard uses of the UnidriveSP keypad control are desired. The first is a variation typically used in HVAC applications. The second is start / stop control using the keys on the UnidriveSP while using an analog voltage or current for a speed reference. In order to implement these, CTSOft and the CT comms cable, the programming tools for UnidriveSP would be very helpful but the configuration setup could be accomplished through the drive's keypad. CTSOft is available for download on our web site or just click -> [CTSOft](#)

Remote - Run / Stop with 4-20 ma control/ Local - Keypad Control

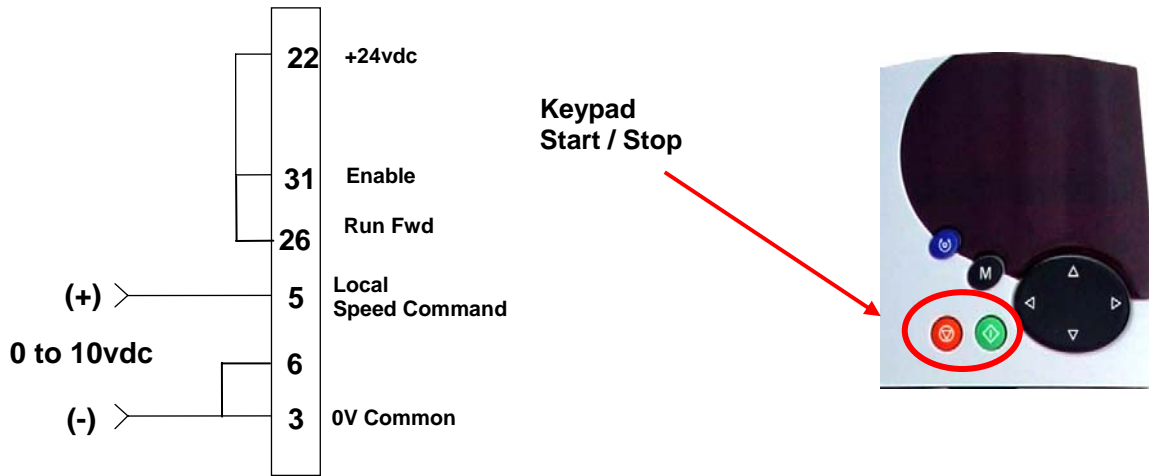
To run reverse, connect a switch to terminal #27 for FWD/REV



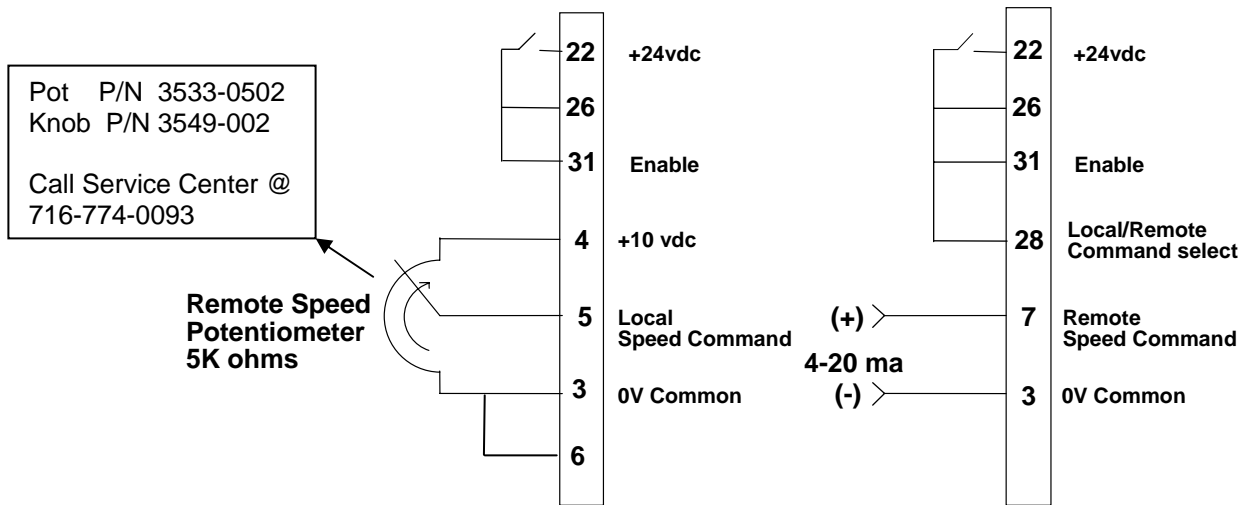
Parameter	Value	Description
#8.23	6.34	Run command
#8.24	6.33	FWD/REV
#9.04	8.05	Logic Source 1 to Remote Selector
#9.06	8.05	Logic Source 2 to Remote Selector
#9.08	1	Invert Logic AND gate
#8.39	1	Allows modification of logic input
#9.10	9.31	Select summing input
#9.33	1.14	Variable selector output to reference select

Note: Drive initially set to USA defaults, motor parameters entered and initial auto tune run. Perform a save and reset after making the above parameter changes.

Remote Analog Reference using Keypad Start / Stop



Additional analog input configurations;



Programming Changes

Parameter	Value	Description
#1.51	0	Pushbutton control on terminal strip
#6.04	4	Sequencer Logic
#6.12	1	Enable keypad stop key
#9.04	1.11	Logic Source 1 to Run Forward
#9.06	1.11	Logic Source 2 to Run Reverse
#9.08	1	Invert and gate output
#9.10	9.31	Logic Destination to variable selector select
#8.23	6.34	Run command
#8.24	6.33	FWD/REV select
#9.33	1.14	Variable selector output to reference select

Note: Drive initially set to USA defaults, motor parameters entered and initial auto tune run. Perform a save after making the above parameter changes.

Questions: Ask the author ??

John Johnson Email: <mailto:john.johnson@emersonct.com>

Tel: 716-774-1193