Implementing 3-Wire control with fwd/rev jog in an ACS850.

Note: These instructions assume all mechanical and electrical installation procedures, direction test, and tuning were completed using the ACS850 Hardware and ACS850 Firmware manuals. This was tested using the factory macro.

Drive Inputs:

Start - Momentary NO Push Button wired to Digital Input 1
Stop – Momentary NC Push Button wired to Digital Input 2
Jog Fwd/Rev – Switch (maintained or momentary) wired to Digital Inputs 3 Fwd & 4 Rev
Jog Enable – Switch (maintained contacts) wired to Digital Input 5

Parameter Settings:

10.01 Ext1 Start Function = 3-Wire
10.02 Ext1 start in1 = DI1
10.03 Ext1 start in2 = DI2
10.07 Jog1 start = DI3
10.08 Jog2 start = DI4
10.09 Jog enable = DI5
21.01 Speed ref1 sel = Desired speed reference
21.07 Speed ref jog1 = Set to desired Fwd Constant Jog Speed Example 500 RPM
21.08 Speed ref jog2 = Set to desired Rev Constant Jog Speed Example -500 RPM

Documents or other reference material:

ACS850 Firmware Manual Standard Control Program Document # 3AUA0000045497
ACS850 Hardware Manuals Document #’s 3AUA0000045487, 3AUA0000045496, 3AUA0000081249