Example 41 - Automation of control mode set to 'Off' when controller powers up.

Real world example is where a customer does not want the controller to control until they press a button to place the control mode to auto (closed loop). It remains in auto unless the power is removed and reapplied,.

Demonstrates use of Digital I/O, Logic, and Action Function blocks.

Wire momentary contact between D_ and Z_

Direction

Digital I/O Value (physical hardware)

DIO Function Input Block 7
Zone 1
Direction = Input Contact

Digital I/O Value (used by next function)

Error Handling
Function

Source Function A = Logic
Source Instance A = 1
Source Zone A = 1

Source Value A

Source Value B

Source Function B = DIO
Source Instance B = 7
Source Zone B = 1

Output Value (used by next function)

Logic Function Block 1
Zone 1
Function = OR

Function Instance
Action Function

Active Level

Set Function Instance to match loop to turn off on powerup.

Function Instance = 1, 2, 3 or 4
Active Level = Low

Source Function A = Logic
Source Instance A = 1
Source Zone A = 1

Action Function Block 1
Zone 1
Action Function = Control Loop Off

Input State (used by next function)

On every power cycle, the output of the logic function will be Off, causing the action function to be On. The result is a control mode set to Off. Pressing the digital input causes the control mode to switch to Auto. The logic function is latched On and is reset only on a power cycle.

Information Flow

EZ-ZONE RM Application Example - using function blocks
Print on 11" x 17" landscape paper for best viewing

User parameter settings in RED