RAMP UP/DOWN TO SELECTED VELOCITY

MODE DESCRIPTION

Available on MCVC + MCPV

Changing the digital inputs on ClearPath (using your PLC, switches, etc.) causes ClearPath to smoothly ramp between any of four user defined velocities.

Assert the Enable Input to get started. Once enabled, ClearPath reads the state of Inputs A and B and immediately accelerates to the target velocity indicated. For example, if **Input A is high** and **Input B is low** ClearPath will ramp to "Velocity 2". Change to a different velocity by changing Inputs A and B

Signal	Function	Velocity	Settings (logic leve	ls)	Example Timing
		Velocity 1	Velocity 2	Velocity 3	Velocity 4	
Input A	Velocity Select A	LOW	HIGH	LOW	HIGH	
Input B	Velocity Select B	LOW	LOW	HIGH	HIGH	
Enable	Enable	Logic: High=Enable Low=Disable				
Trigger	NA	NA				
Tip: Setting one of the programmable velocities to zero (Velocity 3 in the example at right) provides a convenient way to stop the motor via the ClearPath inputs.						V Velocity 1 Velocity 2 Velocity 3 Velocity 4 Velocity 4

Pamp IIn/Down to Salastad Valasity (4 Valasity Programmable)

Ramp Up/Down to Selected Velocity Mode: Inputs and Timing Diagram

I/O FUNCTIONS

Velocity Control

Enable Input - Asserting this input energizes the motor shaft.

Input A - This input, along with Input B, selects which of the four defined velocities ClearPath will run at.

Input B - This input, along with Input A, selects which of the four defined velocities ClearPath will run at.

Output (HLFB) - See HLFB section for available modes.

Notes:

- As soon as a new velocity command is received by ClearPath—as happens when Inputs A and/or B are changed—ClearPath immediately ramps to the new target velocity without delay.
- For a convenient way to command ClearPath to stop, set one of the velocity settings to zero. We did this with "Velocity 3" in the table above.
- Disable time = 10 mS

MODE CONTROLS

