



# Application Examples

---

## Application 1

### *Single Axis Motion Control through digital inputs/outputs from a PLC*

Background:

PLC or industrial control requires single axis motion control using digital IO.

Digital Output 1 – Motion profile selector 1

Digital Output 2 – Motion profile selector 2

Digital Output 3 – Motion profile selector 3

Digital Output 4 – Start motion

Digital Input 1 – Moving Status

Motion Selector Chart

Digital Output 1	Digital Output 2	Digital Output 3	Move Type
Low	Low	Low	Stop
High	Low	Low	Jogging -
Low	High	Low	Jogging +
High	High	Low	Move increment by -1000 counts
Low	Low	High	Move increment by +1000 counts
High	Low	High	Set Low Speed 1000 pps
Low	High	High	Set Medium Speed 5000 pps
High	High	High	Set High Speed 20000 pps

Applicable Arcus Products:

DMX-J-SA  
DMX-K-SA  
DMX-UMD  
DMX-ETH  
ACE-SXC  
ACE-SXE  
ACE-SDE