AMCI Frequently Asked Question

How Do I Connect AMCI Stepper Indexers to Rockwell Automation's Ultra 3000 Servo Drivers?

AMCI stepper indexers can be used to supply the step and direction signals to the Rockwell Automation Ultra 3000 Servo Drivers. The following table shows the terminal numbers used on both the Ultra 3000 driver and all available AMCI indexers.

Signal	Ultra 3000	AMCI 3601	AMCI 3202 CH1	AMCI 3202 CH2	AMCI 3204 CH1	AMCI 3204 CH2	AMCI 3204 CH3	AMCI 3204 CH4	AMCI NX1F2X NX1F4X
+ Step	4	8	16	15	2	12	1	11	10
– Step	5	7	18	17	4	14	3	13	23
+ Dir	6	10	20	19	6	16	5	15	11
– Dir	7	9	22	21	8	18	7	17	24

➤ Consult the Ultra 3000's driver's documentation to determine its proper configuration to receive pulse and direction signals.

➤ Because the Ultra 3000 driver uses Step and Direction input signals, the AMCI Stepper Indexer must be configured to output Step and Direction signals. All of the modules listed above, except the 3204 module, use Configuration Word 0 bit 10 to set the output type to step and direction. The 3204 module uses Configuration Word 0 bit 5 to set the output type to step and direction.

➤ The NX1F2X has two channels and the NX1F4X has four channels. The pin numbers shown in the above table are located on the break out box. Each channel has its own break out box and each channel's break out box use the same pin numbers.