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C10 Multi-function Input Setup

All of Safronics AC drives have the flexibility of programmable digital inputs. The C10 drive differs from the other products in the way the multifunction inputs are set up. Multifunction input terminals 5, 6, 7 and 8 are programmable thru parameters Sn25, Sn26, Sn27, and Sn28 respectively.

The first thing, as with every drive, is to establish how many digital inputs are needed for the application and determine which terminals are to be used. Knowing the functionality of each input, the drive can be program accordingly. As mentioned earlier the configuration of the multifunction input terminals for the C10 drive are different in the sense that the parameter number for the specified digital input must be programmed in numerically increasing order. Otherwise an error message of “**Multi_Fun. Parameter / Setting Error**” will be displayed on the digital operator.

The following table is an example of how the parameters should be set for an application that requires the selection of multiple speeds through digital inputs wired to terminals 5 thru 8. Notice that the parameter **settings** are in numerical ascending order.

Terminal	Parameter	Incorrect Setting	Correct Setting	Description
5	Sn25	02	02	Multi Speed Command 1
6	Sn26	04	03	Multi Speed Command (3) 2
7	Sn27	03	04	Multi Speed Command (2) 3
8	Sn28	05	05	Multi Speed Command 4

When a “**Multi_Fun. Parameter / Setting Error**” is displayed on the C10 digital operator, please double check the settings on parameters Sn25-Sn28 and make sure they are set in numerically ascending order. Once proper correction is made, the drive will reset itself and be ready for operation.