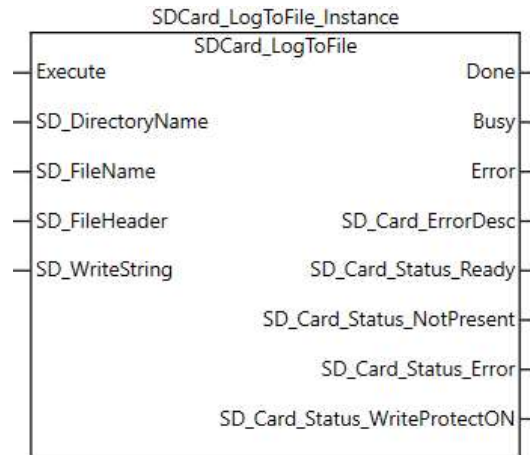


SDCard_LogToFile

Function block to create and append data to a folder/file on an SD card inserted into any NJ/NX controller. Designed for basic data/event logging to .CSV file(s).



Revision History

Revision	Date	Details
0.0.1	2021-01-20	Original version

Operation

1. Checks the SD card is ready, plugged in, not in error and does not have write protection. These conditions are output to output variables '[SD_Card_Status_Ready](#)', '[SD_Card_Status_NotPresent](#)', '[SD_Card_Status_Error](#)', '[SD_Card_Status_WriteProtectON](#)'
2. Waits for input variable '[Execute](#)' to become TRUE
3. Output variable '[Busy](#)' is set to TRUE
4. Output variable '[Error](#)' is set to FALSE
5. Checks if '[SD_DirectoryName](#)' folder exists on the SD card. If not, then this folder is created.
6. Checks if file '[SD_FileName](#)' exists in the '[SD_DirectoryName](#)' folder on the SD card. If not, then this file is created and the file header string in '[SD_FileHeader](#)' (along with a CR/LF) is written as the first line in the file.
7. The string in '[SD_WriteString](#)' (along with a CR/LF) is appended to the file.
8. The file is closed.
9. Output variable '[Busy](#)' is set to FALSE
10. Output variable '[Done](#)' is set to TRUE
11. Waits for input variable '[Execute](#)' to become FALSE
12. Output variable '[Done](#)' is set to FALSE

If there is any error detected, then output variable '[Error](#)' is set to TRUE and the error reason is reported in output variable '[SD_Card_ErrorDesc](#)'