

Driver Integrated Motorized Stages : SBIS series

Q

A

How many pre-buffers are available for the double buffer function?

One regardless of the type of command.
For example, if the command "MP:D,1,100" is sent while the SBIS stage is operating, the response "D,1,OK" means that the pre-buffer has been set.
Immediately after that, if the command "AP:D,1,100" is sent and "D,1,OK" is returned, the contents of the pre-buffer are rewritten as the value of the pre-buffer for the AP, since the MP and AP have one pre-buffer,
Please refer to "Double buffer function" in the instruction manual.

How do you confirm that the value written to the pre-buffer of the double buffer function is empty?

For example, for the first axis of the SBIS stage, please send "? D,1,MP" or "? D,1,AP" command and so on. If the replied character string is "D,1,N", which is separated by a comma, the third character "N" means "Nothing", and you can confirm that it is empty.

In the terminal instruction measurement of SGADVANCE, when an MP command is sent to the pre-buffer, is there a way to wait for the SBIS stage operation of the target device number to be completed?

There are ways to wait.
It can be realized by using the "Format for Waiting for Receipt" function in SGADVANCE's Terminal Instruction Measurement.
For details, please refer to the instruction manual of SGADVANCE.
The following is a simple explanation of how to set this function.
For example, if the command "MP:D,1,100" is moved to the execution buffer and the operation is completed, "D,1,CP" is returned from the SBIS stage of the target device number.
The meaning of this replied character string is that the command set in the prebuffer for device number 1 has been moved from the prebuffer to the execution buffer and the operation is complete.

Setting example of "format setting for reception"
Transmitted character string: "! D,1" for the status of command "! D,1".
Received character string: "D,1,CP".
Character position: 1