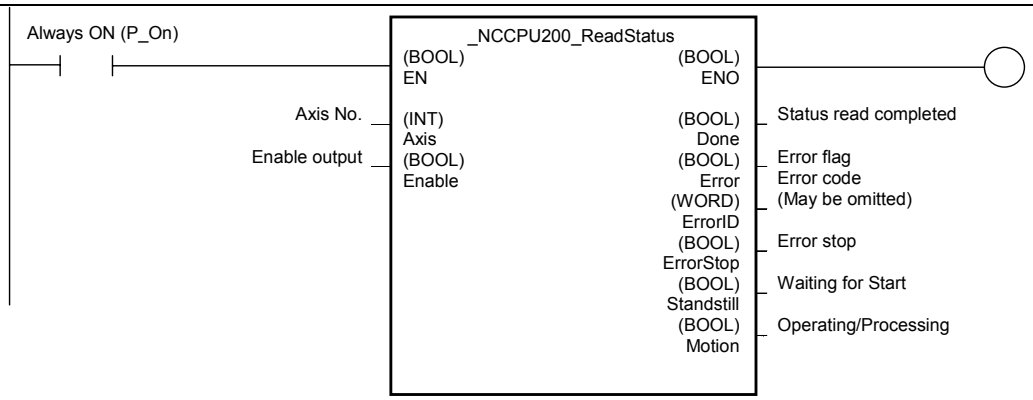
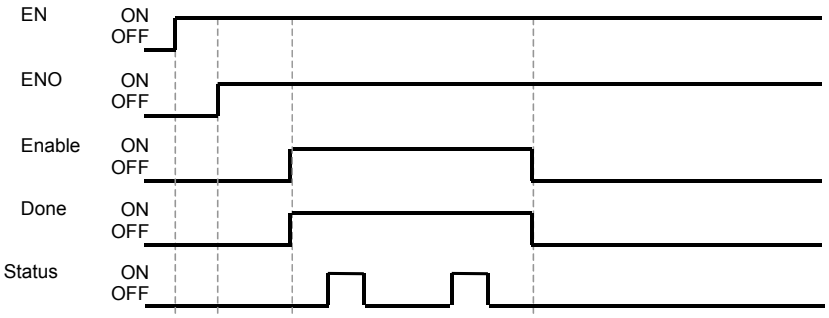
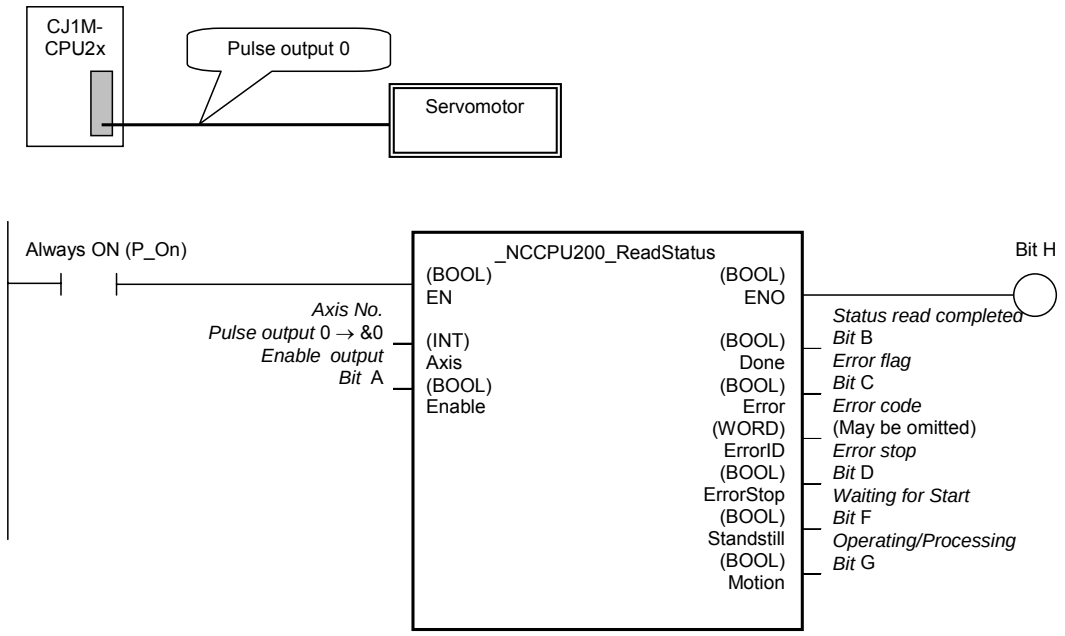
| NCCPU 200 | Status Read: _NCCPU200_ReadStatus |
|---|---|

| | | |
|---|---|---|
| **Basic function** | Reads the output status. | |
| **Symbol** |  | |
| **File name** | Lib\FBL\omronlib\ PositionController \NC-CPU(CJ1MCPU2x)_NCCPU200_Readstatus10 | |
| **Applicable models** | CPU Unit | CJ1M-CPU21/22/23 Unit version 3.0 or higher<br>CP1L-***DT-*<br>CP1L-***DT1-* |
| | CX-Programmer | Version 5.0 or higher |
| **Conditions for usage** | None | |
| **Function description** | Reads the status of the output specified with the Axis No. (Axis) continuously as long as the Output enabled (Enable) is ON. When the Output enabled (Enable) is turned OFF, the status will be reset.<br>The Status read completed (Done) is turned ON while valid status is being read and output.<br>The Error flag (Error) will be turned ON and the Error code (ErrorID) will be output if an error occurs for this FB. Strictly speaking, they are respectively turned ON or output only when Axis No. (Axis) is set out of range.<br>They are output by this FB, combining the states of the Status Bits in the Bit Area of the applicable CPU Unit.<br>These statuses will be reset when Output enabled (Enable) turns OFF. | |
| **Kind of FB definition** | Connect Always ON type<br>Connect the EN input to the Always ON Flag (P_ON).<br>The same instance cannot be used in two or more places. | |
| **EN input condition** | • Connect the EN input to the Always ON Flag (P_ON).<br>• If a different type of bit is connected to EN, the FB outputs will be maintained when the connected bit is turned OFF. | |




| Output variable name | Status | Output condition |
|---|---|---|
| ErrorStop | Stopping due to error | Pulse Output Stopped Error Flag being ON |
| StandStill | Waiting for Start command | Pulse Output In-progress Flag being OFF |
| Motion | Operating or processing command | Pulse Output In-progress Flag being ON |

| | |
|---|---|
| **Application example** | Reads the status of the pulse output 0 on the CJ1M-CPU Unit when the Bit A is turned ON.<br>  |
| **Related manuals** | CJ1M CPU Units Operation Manual (W395)<br>4-3 Auxiliary Area Data Allocation<br>6-3-3 Origin Search Error Processing（Pulse Output Stop Error Codes）<br>SYSMAC CP Series CP1L CPU Unit Operation Manual (W462) |

■ Variable Table

Input Variables

| Name | Variable name | Data type | Default | Range | Description |
|---|---|---|---|---|---|
| EN | EN | BOOL | | | 1 (ON): Starts FB<br>0 (OFF): Does not start FB |
| Axis No. | Axis | INT | &0 | &0 to &1 | &0: Pulse output 0<br>&1: Pulse output 1 |
| Enable output | Enable | BOOL | 0(OFF) | | 1 (ON): Enables output<br>0 (OFF): Turns OFF output |

Output Variables

| Name | Variable name | Data type | Range | Description |
|---|---|---|---|---|
| ENO | ENO | BOOL | | 1 (ON): FB operating normally<br>0 (OFF): FB not operating normally |
| Status read completed | Done | BOOL | | 1 (ON) indicates that valid status is being read and output. |
| Error flag | Error | BOOL | | 1 (ON) indicates that an error has occurred in the FB. |
| Error code (May be omitted) | ErrorID | WORD | | The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output. |
| Error stop | ErrorStop | BOOL | | 1 (ON) indicates that the CPU Unit is being stopped due to an error. |
| Waiting for Start | Standstill | BOOL | | 1 (ON) indicates that the CPU Unit is waiting for a Start command. |
| Operating/Processing | Motion | BOOL | | 1 (ON) indicates that internal processing (for Pulse Output In-progress Flag, etc.) of the CPU Unit is in progress. |

**Revision History**

| Version | Date | Contents |
|---|---|---|
| 1.00 | 2005.2. | Original production |

**Note**

This manual is a reference that explains the function block functions.
It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.