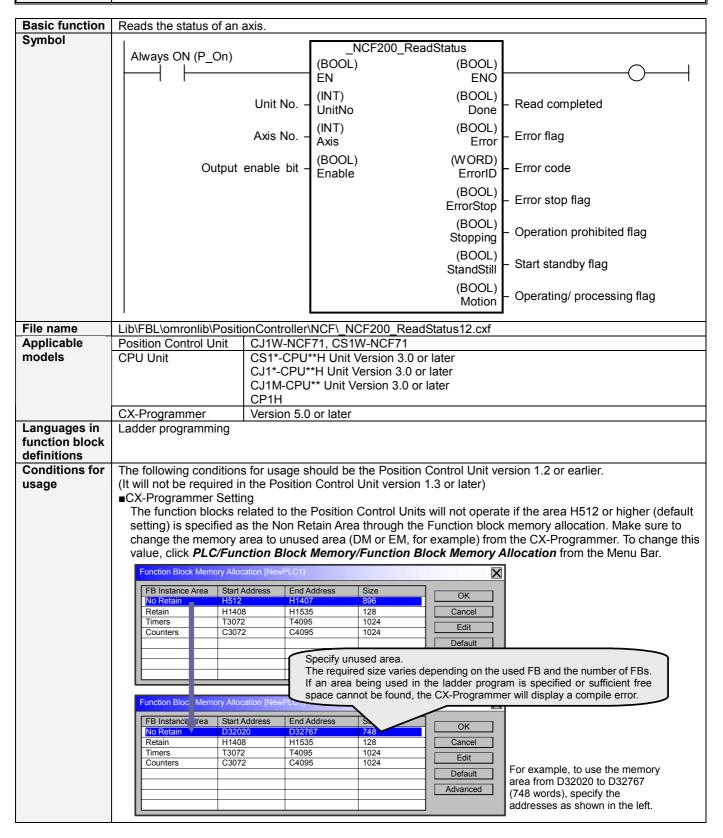
Read Status \_NCF200\_ReadStatus



## Function description

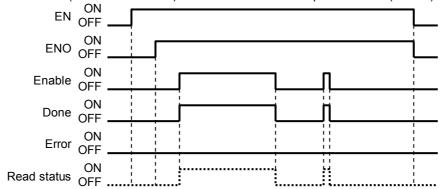
The status of the axis of the specified Unit No. (UnitNo) and Axis No. (Axis) is continuously updated while the Output enable bit (Enable) is ON. When the Output enable bit (Enable) turns OFF, the status is reset.

The Read completed (Done) turns ON when the status data is valid.

The Error flag (Error) will be turned ON and the Error code (ErrorID) will be output if an error occurs for the FB. (They will not be turned ON when axis errors occurs.)

The status for this FB is output combining the status of the CIO Area bits and words allocated to the Position Control Unit.

These status(Done/Error/ErrorID) will be reset then the Output enable bit (Enable) turns OFF.



Output variable	Status					
ErrorStop	Stopped for an error.					
Stopping	Stopped for a deceleration stop or emergency stop and operation prohibited.					
StandStill	Waiting for start command.					
Motion	Operating or processing command. (Including processing present position preset command, error reset command, etc.)					

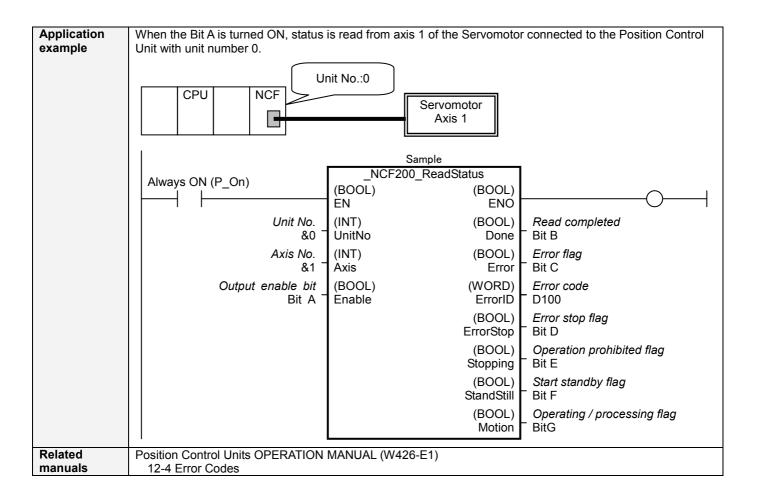
Output conditions								
Axis O	Axis Operating Output Memory Area				Axis Operating Input Memory Area			
Deceler- ation Stop	Emerge- ncy Stop	Servo Unlock	Deviati- on Counter Reset	Busy Flag	Positio- ning Comple- ted Flag	Error Flag	Stop Executi- on Flag	
						ON		
ON	*					OFF	ON	
*	ON					OFF	ON	
OFF	OFF	OFF	OFF	OFF		OFF		
				ON	OFF	-	-	
	Deceleration Stop ON * OFF	Deceleration Stop Emergency Stop  ON * ON OFF OFF	Deceleration Stop         Emergency Stop         Servo Unlock                ON         *            *         ON            OFF         OFF         OFF	Axis Operating Output Memory Area           Deceleration Stop         Emergency Stop         Servo Unlock         Deviation Counter Reset                 ON         *             *         ON             OFF         OFF         OFF         OFF	Axis Operating Output Memory Area         Axis Operating Output Memory Area         Axis Operating Output Memory Area           Deceleration Stop         Emergency Servo Unlock         Deviation On Counter Reset                ON         *            *         ON            OFF         OFF         OFF	Axis Operating Output Memory Area         Axis Operating In Position on Stop           Emergenation Stop         Servo Unlock         Counter Reset         Busy Inlock Completed ted Flag                  ON         *              *         ON              OFF         OFF         OFF         OFF         OFF	Axis Operating Output Memory Area         Axis Operating Input Memory           Deceleration Stop         Emergency Stop         Servo Unlock         Deviation on Counter Reset         Busy Flag         Completed Flag                ON           0N         *            OFF           0F         OFF         OFF         OFF         OFF         OFF	

<sup>\*:</sup> Either is OK ---: Not affected on operation

(Enable)".

Kind of FB	Always execution type.					
definition	Connect the EN input to the Always On Flag (P_On).					
	The same instance cannot be used in two or more places					
EN input	Connect the EN input to the Always ON Flag (P On).					
condition	If another bit is connected to EN, the FB outputs will be held when the connected bit turns OFF.					
Restrictions Other	<ul> <li>This FB uses Unit Error Reset, Write Data, Read Data and Save Data Bits of the Position Control Unit (see Note). Therefore, do not turn these bits ON or OFF between the period from the rising edge of EN to the rising edge of ENO. For the same reason, do not use these bits for coil outputs (OUT commands).</li> <li>The output variable of FB may not change even if EN is turned ON. In that case, check if any of Unit Error Reset, Write Data, Read Data and Save Data Bit is left ON.</li> </ul>					
	Note: For calculation of bit addresses, these bits are referenced in this FB in the first execution of each instance, and					

when changing "Unit No. (UnitNo)", "Axis No. (Axis)" of the input variable and turning ON "Output enable bit



## ■Variable Tables Input Variables

Name	Variable name	Data type	Default	Range	Description		
EN	EN	BOOL			1 (ON): FB started		
					0 (OFF): FB not started		
Unit No.	UnitNo	INT	&0	&0 to &15	Specify the unit number.		
Axis No.	Axis	INT	&1	&1 to &16	Specify the axis number.		
Output enable bit	Enable	BOOL	0(OFF)		Turn ON to enable output.		
•			, ,		Turn OFF to reset the output.		

**Output Variables** 

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB operating normally 0 (OFF): FB not operating normally •FB not started
				<ul><li>Input variable out of the range</li><li>FB ended with error</li></ul>
				Common Parameters could not be read
Read completed	Done	BOOL		Turns ON when the status data is valid.
Error flag	Error	BOOL		Turns ON when an error has occurred in the FB.
Error code	ErrorID	WORD		Returns the error code when an error has occurred in the FB. Refer to the Related Manuals for details on errors. A code of #0000 will be returned if any of the following conditions is satisfied. Input variable is out of range. The common parameters of the Position Control Units are out of range. Not established communications with a specified axis.
Error stop flag	ErrorStop	BOOL		Turns ON when operation has been stopped for an error.
Operation prohibited flag	Stopping	BOOL		Turns ON when operation has been stopped for a deceleration stop and operation is prohibited.
Start standby flag	Standstill	BOOL		Turns ON when waiting for a start command.
Operating / processing flag	Motion	BOOL		Turns ON when an axis is moving or processing is being performed for a present position preset command, error reset command, etc.

**■Version History** 

a version mistory							
Version	Date	Contents					
1.00	2004.06.	Original production					
1.10	2005.01.	Limitation about the setting timing with " Unit No. (UnitNo)" and " Axis No. (Axis)" was removed.					
1.20	2007.11.	The output conditions of Output Variable "Start standby flag (Standstill)" have been changed.					

■Upgrade Details

■Upgrade	Details
Version	Contents
1.10	In version 1.0x, "Unit No. (UnitNo)" and "Axis No. (Axis)" must be set when EN was ON and "Output enable bit (Enable)" was OFF. This means not sometimes working normally when "Unit No. (UnitNo)" and "Axis No. (Axis)" are changed simultaneously with ON of "Output enable bit (Enable)".  In version 1.10, this limitation was removed.
1.20	In the version 1.1x, the Output Variable "Start standby flag (Standstill)" was created according to the status of Deceleration Stop, Emergency Stop, Busy flag or Error flag of the Axis Operating Memory Areas. Therefore, "Start standby flag (Standstill)" was ON even when commands cannot be executed during the Servo Unlock or Deviation Counter Reset.  In the version 1.20, the Servo Unlock and Deviation Counter Reset have been added to output conditions of "Start standby flag (Standstill)".

## ■Note

This document explains the function of the function block.

It does not provide information of restrictions on the use of Units and Components or combination of them. For actual applications, make sure to read the operation manuals of the applicable products.