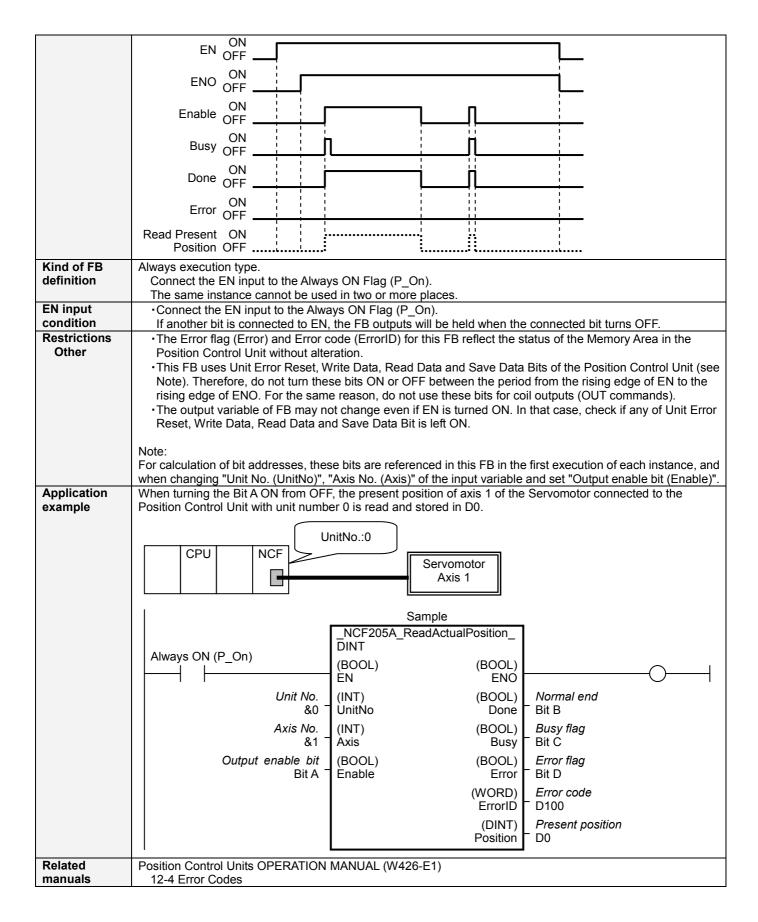
NCF Read Present Position (DINT) _NCF205A_ReadActualPosition_DINT

Basic function	Reads the present position of a	an axis. (Busy attachmer	nt)		
Symbol	NCF205A ReadActualPosition				
		DINT			
	Always ON (P_On)	(BOOL)	(BOOL)	\frown	
		EN	ENO	\bigcirc 1	
	Unit	No. – (INT) UnitNo	(BOOL) Done	– Normal end	
	Axis	AXIS	(BOOL) Busy	– Busy flag	
	Output enable	bit - (BOOL) Enable	(BOOL) Error	– Error flag	
			(WORD) ErrorID	- Error code	
			(DINT) Position	 Present position 	
File name	Lib\FBL\omronlib\PositionCont	roller\NCF\ NCF205A F	ReadActualPositio	n DINT12.cxf	
Applicable	Position Control Unit CJ1W	-NCF71, CS1W-NCF71		-	
models		CPU**H Unit Version 3.0 CPU**H Unit Version 3.0			
	CJ1M	-CPU** Unit Version 3.0			
	CY Programmer Versic	on 5.0 or later			
Languages in	CX-Programmer Versic				
function block definitions Conditions for					
usage	setting) is specified as the N change the memory area to	Specifion Control Unit version o the Position Control Unit on Retain Area through the transference of the position Control Unit on Retain Area through the transference of the position Control Unit Investigation Control Unit Investing Contrelatin Control Unit<	on 1.3 or later) hits will not operation the Function block for example) from Block Memory A OK Cancel Edit Default OK Cancel Edit Default OK Cancel Edit Default Advanced	e if the area H512 or higher (default a memory allocation. Make sure to the CX-Programmer. To change this Allocation from the Menu Bar. Used FB and the number of FBs. am is specified or sufficient free er will display a compile error. For example, to use the memory area from D32020 to D32767 (748 words), specify the addresses as shown in the left.	
description	The present position of the axis of the specified Unit No. (UnitNo) and Axis No. (Axis) is continuously updated in the "Present position (Position)" while the Output enable bit (Enable) is ON. When the Output enable bit (Enable) turns OFF, the "Present position (Position)" is cleared to all zeros. The Normal end (Done) turns ON when the present position data is valid. The Busy flag (Busy) will be set when the Output enable bit (Enable) is turned ON. The Busy flag (Busy) will be reset when the Normal end (Done) or Error flag (Error) is turned ON. If the error is occurred when the input variables is out of the range etc., the Busy flag (Busy) will be set for at least one cycle. 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.) This status will be reset then the Output enable bit (Enable) turns OFF. These status(Done/Error/ErrorID) will be reset then the Output enable bit (Enable) turns OFF.				



Variable Tables

Input Variables

Input fullablee					
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
				 Input variable out of the range
				•FB ended with error
				 Common Parameters could not be read
Normal end	Done	BOOL		Turns ON for a normal end.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in progress.
Error flag	Error	BOOL		Turns ON for an error end.
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.
Present position	Position	DINT		The present position of the axis controlled by the Position Control
				Unit.

Version History

Version	Date	Contents			
1.13	2006.01.	Original production			
1.20	2007.11.	Limitation on reading "Present position (Position)" was removed.			

Upgrade Details

Version	Detailed Contents
1.20	In the version 1.1x, "Present position (Position)" was not updated when an axis error occurred. Therefore, the
	accurate actual position could not be obtained when an axis was operated while an axis error occurred.
	In the version 1.20, this limitation has been removed.

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.