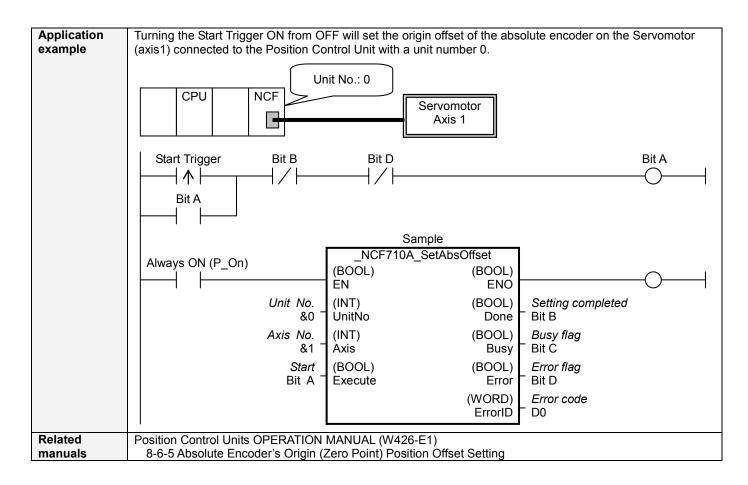
NCF	
710A	

Absolute Encoder's Origin Position Offset Setting _NCF710A_SetAbsOffset

Basic function	Sets an origin position offset of the absolute encoder. (Busy attachment)					
Symbol	NCF710A_SetAbsOffset					
	Always ON (P_On)		(BOOL)			
			EN	(BOOL) ENO	O	
			(INT)	(BOOL)		
		Unit No. –	UnitNo	(BOOL) Done	 Setting completed 	
			(INT)	(BOOL)		
		Axis No. –	Axis	Busy	– Busy flag	
			(BOOL)	(BOOL)		
		Start -	Execute	Error	 Error flag 	
				(WORD)		
				ErrorID	 Error code 	
		L				
File name	Lib\FBL\omronlib\Posit			AbsOffset11.cxt	f	
Applicable models	Position Control Unit		71, CS1W-NCF71	latar		
models	CPU Unit		*H Unit Version 3.0 or H Unit Version 3.0 or			
			* Unit Version 3.0 or I			
		CP1H				
	CX-Programmer	Version 5.0	or later			
Languages in	Ladder programming					
function block definitions						
Conditions for	The following condition	s for usage sh	ould be the Position (Control Unit ve	rsion 1.2 or earlier	
usage	(It will not be required i					
U U	CX-Programmer Setti			,		
					e if the area H512 or higher (default	
					memory allocation. Make sure to	
					n the CX-Programmer. To change this Mocation from the Menu Bar.	
	Function Block Memory Allo			×	1	
		Address End Ad	ddress Size			
	No Retain H512	H1407	896	ОК		
	Retain H140 Timers T307			Cancel		
	Counters C307			Edit		
				Default		
			pecify unused area.	enending on the l	used FB and the number of FBs.	
					am is specified or sufficient free	
	Function Bloc Memory Allo	cation [NewPLOT	pace cannot be found, th	e CX-Programme	er will display a compile error.	
		Address End Ad	ddress			
	No Retain D320	020 D3276	748	ОК		
	Retain H140 Timers T307			Cancel		
	Counters C307			Edit	For example, to use the memory	
				Default Advanced	area from D32020 to D32767	
				Auvanceu	(748 words), specify the	
					addresses as shown in the left.	

Function	The Busy Output	is added to the	NCE710 SotAb	cOffect in this E	D				
description	The Busy Output is added to the_NCF710_SetAbsOffset in this FB. Sets the origin offset of the absolute encoder for the axis specified with Unit No. and Axis No. when Start								
uccomption	(Execute) is turned ON. This FB processes the feedback present position to set the offset in the Servo								
	Parameter Absolute encoder zero point position offset (Refer to the Restrictions Other).								
	The Busy flag (Busy) will be set when the Start (Execute) is turned ON.								
	The Busy flag (Busy) will be reset when any of the Setting completed (Done) or Error flag (Error) is turned ON.								
	Even if an error occurs when the input variable is out of the range, etc., the Busy flag (Busy) will be set for at								
	least one cycle.								
						e output if an e	error occurs for the FB.		
	This will not occur								
							f the Start (Execute)		
	turns OFF before			ed, the status w	ill be set	for at least o	ne cycle when		
	corresponding co								
	This FB should be		der is used as ar		lor				
	•Setup the abs		uel is used as al	absolute encou	Jei.				
			nunications (i.e., e	ootoblich conno	ation)				
			o be set as a mad		50011).				
					n an oria	in is not estat	blished, and "Setting		
		one)" turns ON.	No Oligin Liag tu		y an ong	1115 1101 65181	hisned, and Setting		
			the No Origin Fla	ad turns OFF an	d the ori	ain is establis	hed		
			offset, the preser			gir ie eetablie	liou.		
	EN OFF	= <u> </u>							
		i							
	ENO OFF					Ļ			
	Execute ON								
	Internal ON		۱ •		,				
	processing OFF	=							
	Busy OFF	=	I :L		1				
				 ;					
	Done OFF		1	1					
					I				
	Error OFF			<u> </u>					
Kind of FB	Always execution	type.							
definition			ways ON Flag (P	On).					
			used in two or mo						
EN input			Always ON Flag (
condition	If another bit is	s connected to	EN, the FB output	its will be held w	hen the	connected bit	t turns OFF.		
Restrictions			ers which this FB						
Other	Drive	PRM No.	Paramete		Size	Unit	Setting range		
	W-Series	Pn808	Absolute encod	er zero point	4	command	-1073741823		
			position offset			units	to 1073741823		
	G-Series	Pn200 (808)	Absolute origin	offset	4	command units	-1073741823 to 1073741823		
	• This FB uses I	I Init Error Rese	t Write Data Re	ad Data and Sa	ve Data		sition 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).								
	 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. 								
	•This FB uses the Device Setup/ Servo Unlock/ Read Servo Parameter/ Save Servo Parameter Bits in the								
	Axis Operating Output Memory Areas. Therefore, do not turn these bits ON or OFF until the operation is								
	completed. Fo	or the same reas	son, do not use tl	nese bits for coil	outputs	(OUT comma	ands).		
	Noto								
	Note:	hit addrossos d	those bits are ref	propood in this E	D in the	first avagution	of each instance, and		
	when changing "l						n of each instance, and (Execute) "		



■Variable Tables Input Variables

input vunu	000				
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	&0	&1 to &16	Specified value corresponds to the Axis No.
Start	Execute	BOOL	0(OFF)		

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 	
Setting completed	Done	BOOL		1 (ON) indicates that setting has been completed.	
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in progress.	
Error flag	Error	BOOL		1 (ON) indicates that 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. 	
				 While either of Device Setup/Servo Unlock/Read Servo 	
				Parameter/Save Servo Parameter is in operation, a	
				corresponding command bit has been changed by other FB.	

■Version History

Version	Date	Contents
1.13	2006.01.	Original production

∎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.