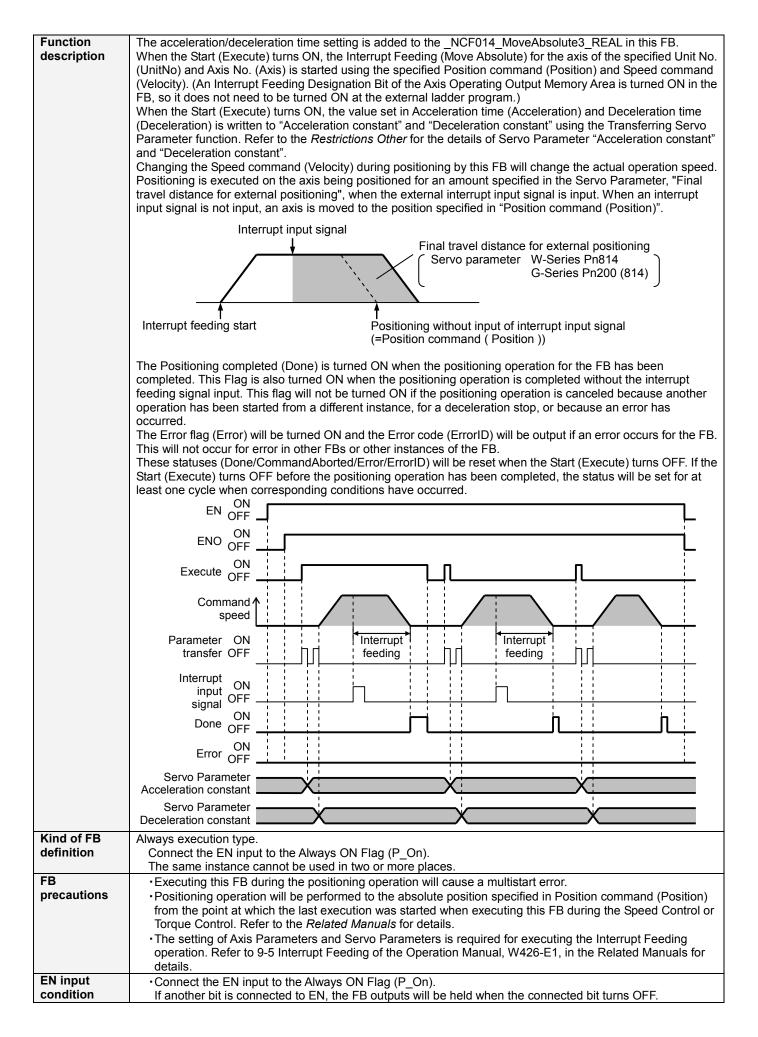
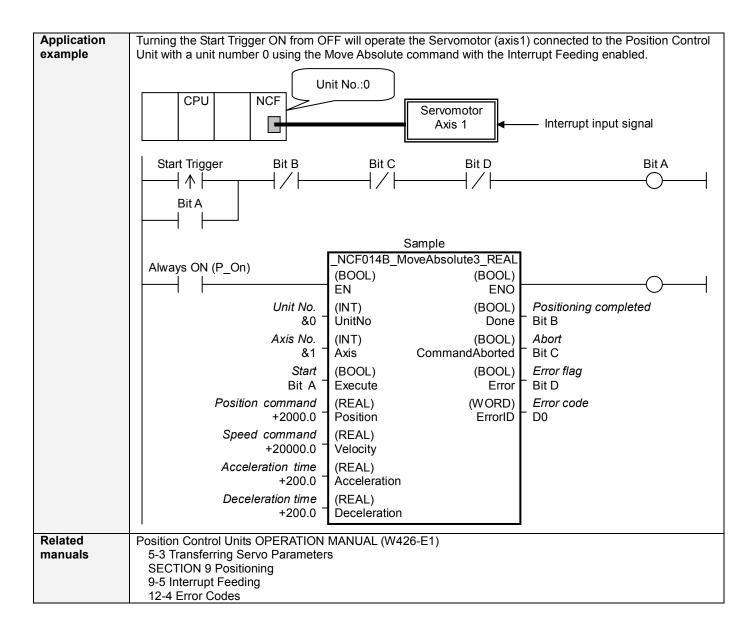
NCF MOV 014B NC

Move Absolute with Interrupt Feeding (REAL) _NCF014B_MoveAbsolute3_REAL

Basic function	Executes Interrupt Feeding with Move Absolute command. (Acceleration/Deceleration time setting attachment)						
Symbol	Always ON (P_On)	Unit No. – Axis No. – Start – command – command – ration time –	_NCF014B_M (BOOL) EN (INT) UnitNo (INT) Axis (BOOL) Execute (REAL) Position (REAL) Velocity (REAL) Acceleration	oveAbsolute3_REAL (BOOL) ENO (BOOL) Done (BOOL) CommandAborted (BOOL) Error (WORD) ErrorlD	 Positioning completed Abort Error flag Error code 		
	Decele	eration time -	(REAL) Deceleration				
File name	Lib\FBL\omronlib\Posit	onController	NCF_NCF014	B_MoveAbsolute3_R	EAL10.cxf		
Applicable models	Position Control Unit CPU Unit CX-Programmer	CS1*-CPU* CJ1*-CPU*	71, CS1W-NCI *H Unit Versior *H Unit Versior ** Unit Version or later	n 3.0 or later i 3.0 or later			
Languages in	Ladder programming	•					
function block							
definitions	The fellowing condition						
Conditions for usage	 The following conditions for usage should be the Position Control Unit version 1.2 or earlier. (It will not be required in the Position Control Unit version 1.3 or later) CX-Programmer Setting The function blocks related to the Position Control Units will not operate if the area H512 or higher (default setting) is specified as the Non Retain Area through the Function block memory allocation. Make sure to change the memory area to unused area (DM or EM, for example) from the CX-Programmer. To change this value, click <i>PLC/Function Block Memory/Function Block Memory Allocation</i> from the Menu Bar. 						
				X			
	FB Instance Area Start No Retain H512		Address Size 7 896	ОК			
	Retain H140 Timers T307			Cancel			
	Counters C307			Edit			
	Default Specify unused area. The required size varies depending on the used FB and the number of FBs. If an area being used in the ladder program is specified or sufficient free space cannot be found, the CX-Programmer will display a compile error.						
	FB Instance Tea Start	Address End A	Address				
	No Retain D320	20 D327	67 748	ОК			
	Timers T307	2 T4095	5 1024	Edit			
	Counters C307	2 C409	5 1024	Default	For example, to use the memory		
				Advanced	area from D32020 to D32767		
					(748 words), specify the addresses as shown in the left.		



Postrictions	Changing H	Coord comment		nin a l-		a actual an arctim
Restrictions Other	speed. Howev	ver, the speed w	d (Velocity) during position ill not be changed if the S			
			+2.147483e+009. eed command value +10	00 0/±1	000) to ±2 1/7/82o±0	100 during the
			ommand value for the Pos			
	+2.1474	83e+009(+2147	483000). Some Position	Control	Units may cause an e	error.
			eed command value +10 ommand value for the Pos			
	any cha	nge.				
	"Acceleration	time (Accelerati	on constants are calculated on)" and "Deceleration tir	ne (Dec	eleration)" in this FB.	If the calculated value
			ge, it will be adjusted to b ation time may be altered		the range (1 to 6553	5). In this case, the
			celeration constant settin		of Servo Drive	
	Drive	PRM No.	Parameter name	Size	Unit	Setting range
	W-Series	Pn80B	Second-step linear acceleration constant	2	×10000 command units/s ²	1 to 65535
		Pn80E	Second-step linear deceleration constant	2	×10000 command units/s ²	1 to 65535
	G-Series	Pn107 (80B)	Linear Acceleration constant	2	×10000 command units/s ²	0 to 65535 (Note)
		Pn10A (80E)	Linear deceleration constant	2	×10000 command units/s ²	0 to 65535 (Note)
		g 0 automaticall	y changes to 1. ified for this FB: "Accelera	ation/de	coloration ourse desig	nation" "Earward
			on" and "Reverse rotation			
	required, spec	cify them in adva	ance outside the FB.		·	
		act differently ac gin Search oper	cording to unit versions c	of the Po	osition Control Units w	hen executing this FB
	Earlier than	A Multist	art error occurs right afte		eters are transferred.	Do not execute this
	2.0 or later	The para	g the Origin search opera ameter transferring status	is hold		n is completed. After
		the com than Version 2.0	pletion, the Move Absolut	e comm sion 2.0		
		. ON			ON	
	Origin s		Origin	Search		
		ecute OFF				
	Servo Para Tra	meter ON	Servo Para	ameter ansfer		1
		solute t with ON		osolute	ON	
	Movemen Interrupt Fe		Moveme		OFF	Į Į
		_ ON		U	ON	
		Done OFF		Done	ON OFF	<u> </u>
		Error OFF	ſ	Error	ON OFF	
	Comm	and speed	Com	mand sp		
		Multistart Er	T ror occurs		T Origin search ends	s
				Absolut	e Movement with Inte	ا rrupt Feeding ends
			t, Write Data, Read Data			
			these bits ON or OFF bet ame reason, do not use t			
	 The output va 	riable of FB may	y not change even if EN i	s turned		
			and Save Data Bit is left		a Dit in the Avia On-	ating Output Manager
			ovement and the Interrupt these bits ON or OFF united to the section of the secti			
			outputs (OUT commands)			
	Note:					
			hese bits are referenced)", "Axis No. (Axis)" of the			



■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.
Start	Execute	BOOL	0(OFF)		
Position	Position	REAL	+0.0	-2.147483e+009 to	Specify the target position.
command				+2.147483e+009	Unit: Command units/s
Speed	Velocity	REAL	+0.0	+0.0 to	Specify the target speed.
command				+2.147483e+009	Unit: Command units/s
					Changing the value while this FB is in operation
					will change the actual operating speed.
Acceleration	Acceleration	REAL	+0.0	+0.0 to +65535.0	Specify the acceleration time for the speed
time					specified in "Speed command (Velocity)".
					Unit: ms
Deceleration	Deceleration	REAL	+0.0	+0.0 to +65535.0	Specify the deceleration time for the speed
time					specified in "Speed command (Velocity)".
					Unit: ms

Output Vari	ables			
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
Positioning completed	Done	BOOL		Turns ON when the positioning operation has been completed.
Abort	CommandAborted	BOOL		 (ON): Aborted It will be aborted when any of the following conditions is met during operation Turns ON when the other Move command done (Duplicate Move). Stopped with Decleration Stop or Emergency Stop. Executed Servo Unlock, Deviation Counter Reset on an operating axis. Attempted to execute FB while Servo Unlock, Deceleration Stop, Emergency Stop or Deviation Counter Reset Bit is ON. Detected the Stop Execution Flag is ON. The Absolute Movement Bit is changed by the other FB during Absolute Movement in operation.
Error flag Error code	Error ErrorID	BOOL WORD		Turns ON when an error has occurred in the FB. Returns the error code when an error has occurred in the FB. Refer
				 to the <i>Related Manuals</i> 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. The Write Servo Parameter Bit is changed by the other FB during writing Servo parameters.

■Version History

Version	Date	Contents
1.01	2007.11.	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.