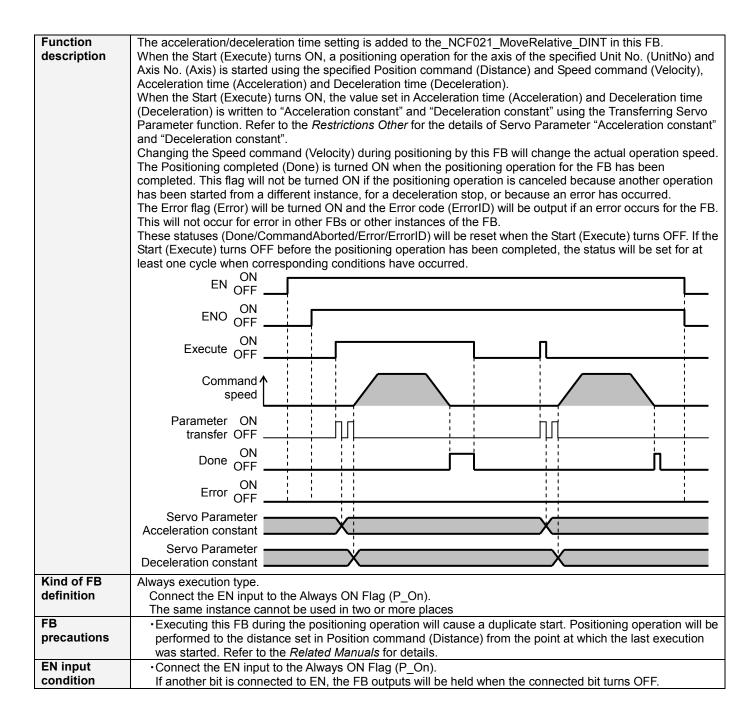
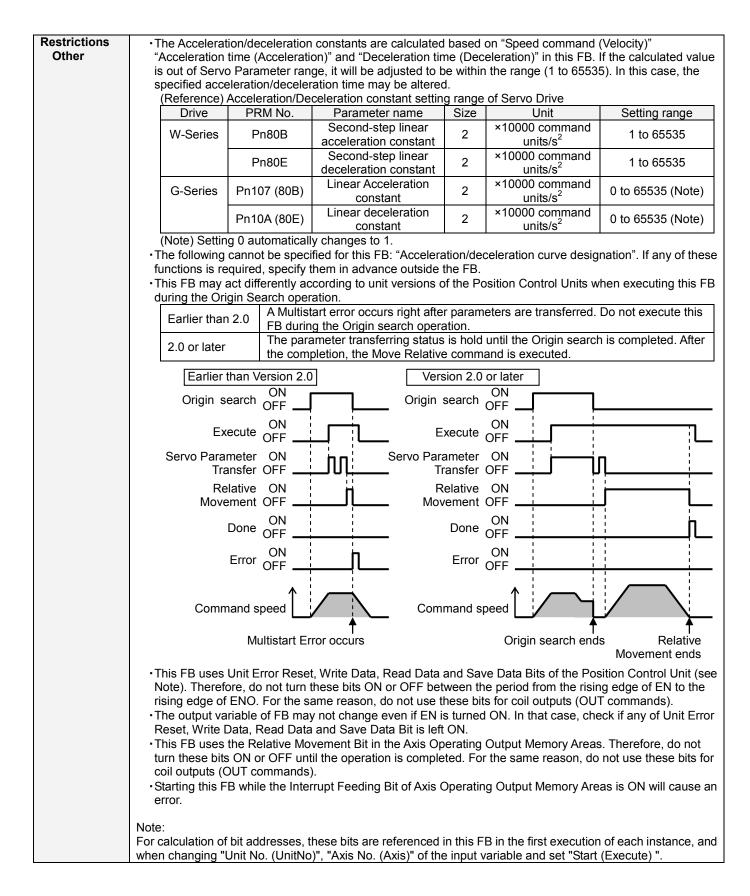
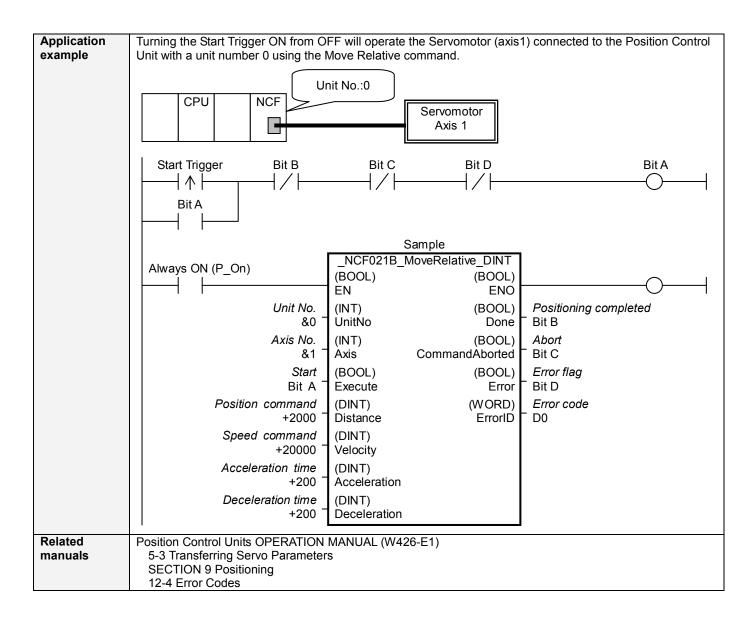
NCF 021B	Move Relative (DINT)	NCF021B_MoveRelative_DINT						
Basic function	Executes positioning with the relative movement. (Acceleration/Deceleration time setting attachment)							
Symbol	Always ON (P_On)	_NCF021B_MoveRelative_DINT (BOOL) (BOOL) EN ENO						
	Unit No.	(INT) (BOOL)						
	Axis No.							
	Start							
	Position command	Distance Enond						
	Speed command	velocity						
	Acceleration time	(DINT) Acceleration (DINT)						
	Deceleration time	Deceleration						
File name		er/NCF_NCF021B_MoveRelative_DINT10.cxf						
Applicable		CF71, CS1W-NCF71						
models		J**H Unit Version 3.0 or later J**H Unit Version 3.0 or later						
		U** Unit Version 3.0 or later						
	CP1H							
-	CX-Programmer Version 5	.0 or later						
Languages in function block definitions	Ladder programming							
Conditions for		should be the Position Control Unit version 1.2 or earlier.						
usage		on Control Unit version 1.3 or later)						
	CX-Programmer Setting The function blocks related to the	e Position Control Units will not operate if the area H512 or higher (default						
		Retain Area through the Function block memory allocation. Make sure to						
	change the memory area to unu	sed area (DM or EM, for example) from the CX-Programmer. To change this						
	value, click PLC/Function Bloc	k Memory/Function Block Memory Allocation from the Menu Bar.						
	Function Block Memory Allocation [NewPLC1]							
		d Address Size OK						
	No RetainH512H1RetainH1408H1	407 896 Cancel						
		095 1024 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						
	Function Bloc Memory Allocation [NewPLC+1]							
	FB Instance Tea Start Address En	d Address						
	No Retain D32020 D3	2767 748 OK						
	Timers T3072 T40	535 128 Cancel 995 1024 Edit						
	Counters C3072 C4	095 1024 For example, to use the memory						
		area from D32020 to D32767 Advanced (748 words), specify the						
		addresses as shown in the left.						







■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	Distance	DINT	+0	-2,147,483,648 to	Specify the distance for relative movement.
command				+2,147,483,647	Unit: Command units/s
Speed	Velocity	DINT	+0	+0 to	Specify the target speed.
command				+2,147,483,647	Unit: Command units/s
					Changing the value while this FB is in operation
					will change the actual operating speed.
Acceleration	Acceleration	DINT	+0	+0 to +65,535	Specify the acceleration time for the speed
time					specified in "Speed command (Velocity)".
					Unit: ms
Deceleration	Deceleration	DINT	+0	+0 to +65,535	Specify the deceleration time for the speed
time					specified in "Speed command (Velocity)".
					Unit: ms

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
Positioning completed	Done	BOOL		Turns ON when the positioning operation has been completed.
Abort	CommandAborted	BOOL		1 (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 Relative Movement Bit is changed by the other FB during Relative Movement in operation.
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 <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 Interrupt Feeding Bit of Axis Operating Output Memory Areas
				is ON before Relative Movement is executed by this FB.
				• 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.