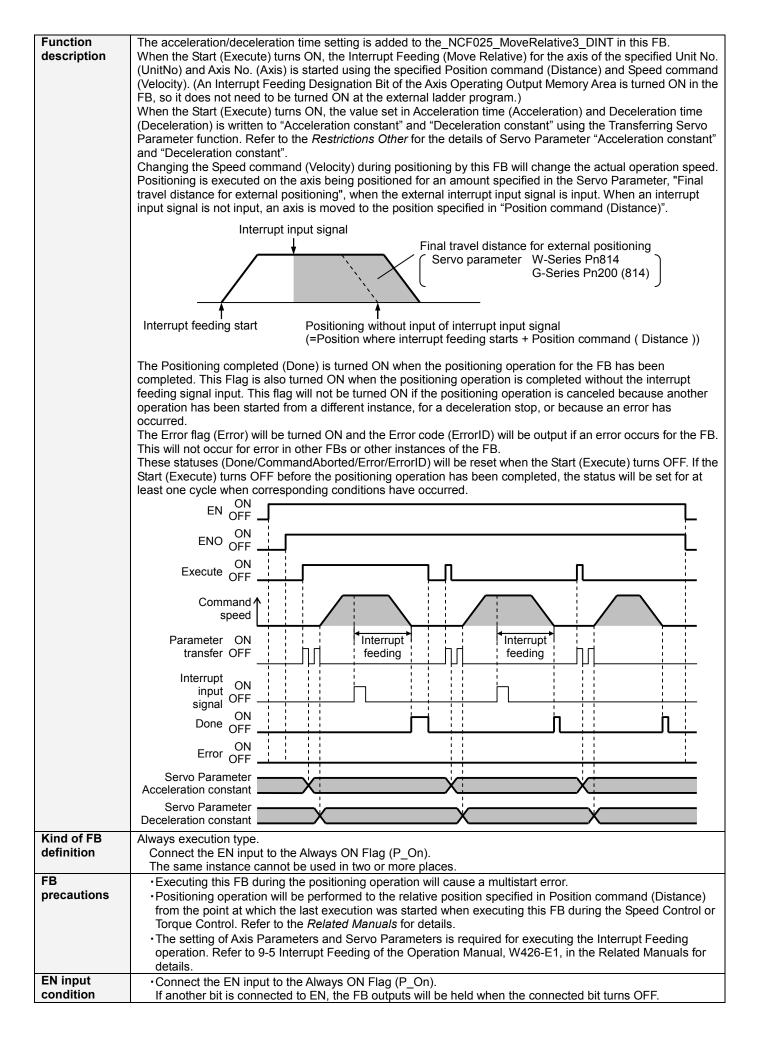
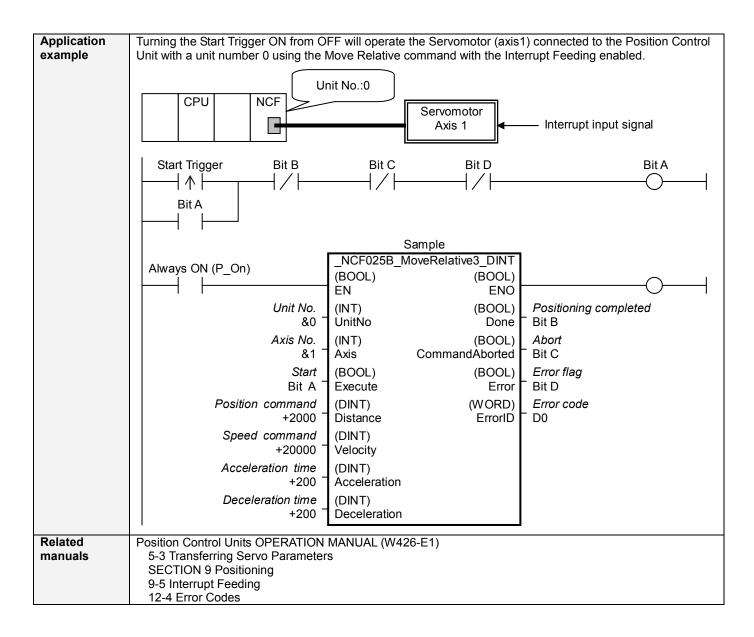
NCF	
025B	

Move Relative with Interrupt Feeding (DINT) _NCF025B_MoveRelative3_DINT

Basic function	Executes Interrupt Feeding with Move Relative command. (Acceleration/Deceleration time setting attachment)							
Symbol			_NCF025B_MoveRelative3_DINT					
	Always ON (P_On)		(BOOL)	(BOOL)				
			EN	ENO	——————————————————————————————————————			
		Unit No. –	(INT) UnitNo	(BOOL) Done	 Positioning completed 			
		Axis No. –	(INT) Axis	(BOOL) CommandAborted	– Abort			
		Start -	(BOOL) Execute	(BOOL) Error	– Error flag			
	Position	command -	(DINT) Distance	(WORD) ErrorID	- Error code			
	Speed	command -	(DINT) Velocity					
	Accele	eration time –	(DINT) Acceleration					
	Decele	eration time -	(DINT) Deceleration					
Elle men								
File name Applicable	Lib\FBL\omronlib\Posit Position Control Unit				IN I 10.cxt			
models	CPU Unit		71, CS1W-NC *H Unit Versio					
models			*H Unit Versio					
			** Unit Versior					
		CP1H						
	CX-Programmer	Version 5.0	.0 or later					
Languages in function block definitions	Ladder programming							
Conditions for	The following condition	is for usage s	hould be the F	Position Control Unit ve	ersion 1.2 or earlier.			
usage	(It will not be required i		Control Unit	version 1.3 or later)				
	■CX-Programmer Setti							
					te if the area H512 or higher (default k 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.							
	FB Instance Area Start		ddress Size 7 896	ОК				
	Retain H140	08 H153	5 128	Cancel				
	Timers T307 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							
	Function Bloc Memory Allocation [NewPLong space cannot be found, the CX-Programmer will display a compile error.							
	ER Instance Tage Start Address End Address							
	No Retain D320	020 D327	67 748	ОК				
	Retain H140 Timers T307			Cancel				
	Counters C307			Edit	For example, to use the memory			
				Default	area from D32020 to D32767			
				Advanced	(748 words), specify the			
					addresses as shown in the left.			



Restrictions Other	"Acceleration	time (Accelerati		me (Dec	eleration)" in this FB.	If the calculated value				
	"Acceleration time (Acceleration)" and "Deceleration time (Deceleration)" in this FB. If the calculated value is out of Servo Parameter range, it will be adjusted to be within the range (1 to 65535). In this case, the									
	specified acceleration/deceleration time may be altered. (Reference) Acceleration/Deceleration constant setting range of Servo Drive									
	Drive	PRM No.	Parameter name	Size	Unit	Setting range				
			Second-step linear		×10000 command					
	W-Series	Pn80B	acceleration constant	2	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)				
			ly changes to 1.							
			ified for this FB: "Acceler							
			on" and "Reverse rotatio	n curren	t limit designation". If	these functions are				
	required, specify them in advance outside the FB. • This FB may act differently according to unit versions of the Position Control Units when executing this FB									
		gin Search oper				then exceeding the r				
	Earlier than	A Multist	tart error occurs right aften ng the Origin search open		eters are transferred.	Do not execute this				
	2.0 or later	The para	ameter transferring statu pletion, the Move Relativ	s is hold		h is completed. After				
	Farlier	han Version 2.0) Ver	sion 2.0	orlater					
	Origin s	ON		search						
	Ex	ON OFF	<u> </u>	-	ON OFF					
	Servo Parai Tra	meter ON Insfer OFF	Servo Pai	ameter ransfer		Л				
	Re Movemen Interrupt Fe		Moveme Interrupt F		ON OFF	ļĻ				
		ON Done OFF		Done	ON OFF	Ĺ				
		Error ON OFF	ſ	Error	ON OFF					
	Comm	and speed	Con	nmand s	peed					
	Multistart Error occurs Origin search ends									
				Relativ	e Movement with Inte	errupt Feeding ends				
	• 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 rise edge									
	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 Relative Movement/ Interrupt Feeding/ Write Servo Parameter Bit in the Axis Operating Output Memory Areas. Therefore, do not turn these bits ON or OFF until the operation is completed. For the same reason, do not use these bits for coil outputs (OUT commands).									
			hese bits are referenced)", "Axis No. (Axis)" of th							



■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 command	Distance	DINT	+0	-2,147,483,648 to	Specify the target position.
				+2,147,483,647	Unit: Command units/s
Speed command	Velocity	DINT	+0	+0 to	Specify the target speed.
				+2,147,483,647	Unit: Command units/s
					Changing the value while this FB is in
					operation will change the actual operating
					speed.
Acceleration time	Acceleration	DINT	+0	+0 to +65,535	Specify the acceleration time for the speed
					specified in "Speed command (Velocity)".
					Unit: ms
Deceleration time	Deceleration	DINT	+0	+0 to +65,535	Specify the deceleration time for the speed
					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 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.
				 The Write Servo Parameter Bit is changed by the
				other FB during writing Servo parameters.

Version History

Version	Date	Contents			
1.00	2007.02.	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.