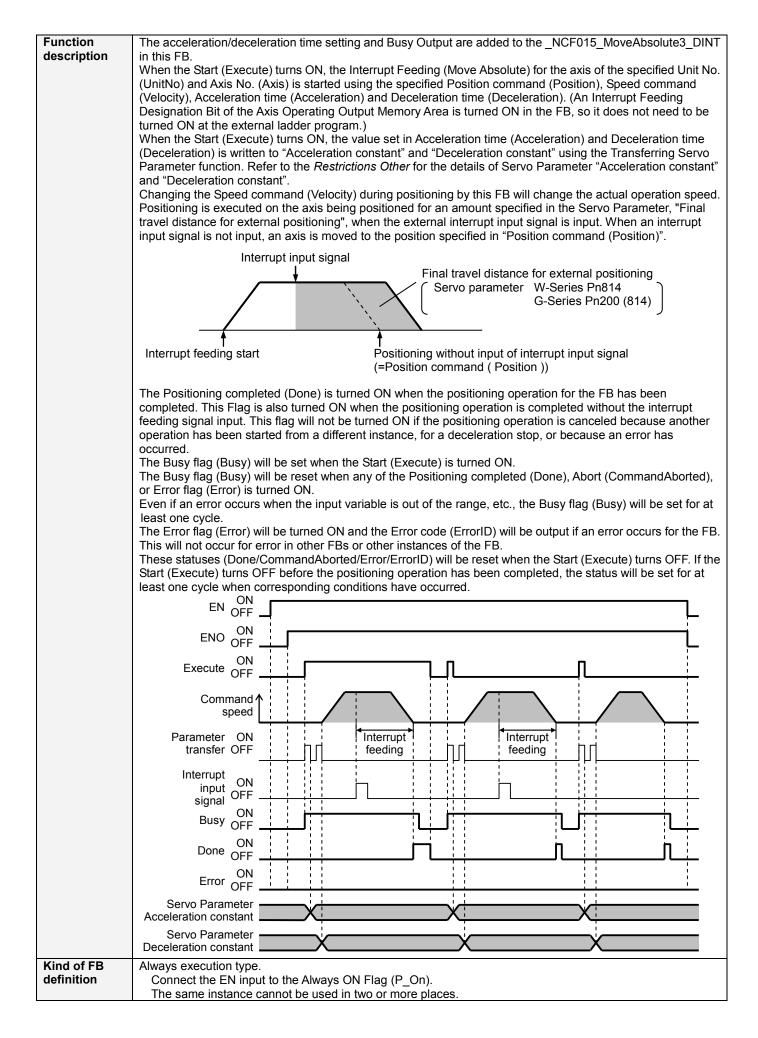
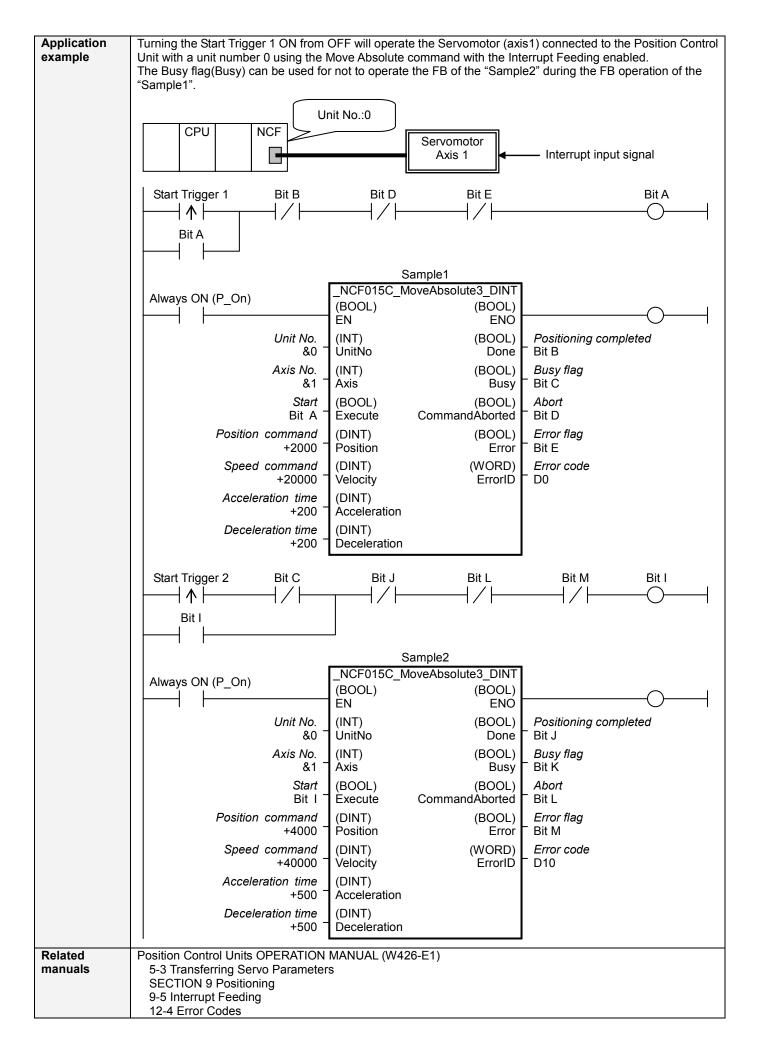
NCF Move Absolute with Interrupt Feeding (DINT) 015C _NCF015C_MoveAbsolute3_DINT

Basic function	Executes Interrupt Fee attachment)	eding with Mov	ve Absolute cor	nmand. (Acceleration	/Deceleration time setting, Busy
Symbol	Always ON (P_On)	Unit No. – Axis No. – Start – command – command – eration time – eration time –	(BOOL) EN (INT) UnitNo (INT) Axis (BOOL) Execute (DINT) Position (DINT) Velocity (DINT) Acceleration (DINT)	loveAbsolute3_DINT (BOOL) ENO (BOOL) Done (BOOL) Busy (BOOL) CommandAborted (BOOL) Error (WORD) ErrorID	 Positioning completed Busy flag Abort Error flag Error code
			Deceleration		
File name	Lib\FBL\omronlib\Posit				DINT10.cxf
Applicable models	Position Control Unit CPU Unit CX-Programmer	CS1*-CPU* CJ1*-CPU*	71, CS1W-NCF *H Unit Versior *H Unit Version ** Unit Version or later	1 3.0 or later 3.0 or later	
Languages in	Ladder programming				
function block					
definitions Conditions for	The following condition	s for usage s	hould be the Pr	sition Control Unit ve	ersion 1.2 or earlier
usage	 (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 (defau 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 the value, click <i>PLC/Function Block Memory/Function Block Memory Allocation</i> from the Menu Bar. Function Block Memory Allocation [NewPLC1] 				
	FB Instance Area Start	Address End A	ddress Size	ОК	
	No Retain H512 Retain H140			Cancel	
	Timers T307 Counters C307	72 T4095	5 1024	Edit	
			Specify unused an he required size f an area being u	varies depending on the used in the ladder progr	used FB and the number of FBs. am is specified or sufficient free are will display a compile error.
	Function Bloc Memory Allo		ddroop		
	No Retain D320	020 D327		ОК	
	Retain H140 Timers T307			Cancel	
	Counters C307			Edit Default Advanced	For example, to use the memory area from D32020 to D32767
					(748 words), specify the addresses as shown in the left.



FB			positioning operation will							
precautions	 Positioning op 	eration will be p	performed to the absolute	e positior	n specified in Position					
	from the point at which the last execution was started when executing this FB during the Speed Control o Torque Control. Refer to the <i>Related Manuals</i> for details.									
			s and Servo Parameters							
	details.	ier to 9-5 Interru	pt Feeding of the Opera	tion Man	iual, VV426-E1, in the	Related Manuals for				
EN input	Connect the E		lways ON Flag (P_On).							
condition Restrictions	If another bit is connected to EN, the FB outputs will be held when the connected bit turns OFF. • The Acceleration/deceleration constants are calculated based on "Speed command (Velocity)"									
Other	"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.									
			celeration constant setti		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	2	×10000 command	1 to 65535				
			deceleration constant Linear Acceleration		units/s ² ×10000 command					
	G-Series	Pn107 (80B)	constant	2	units/s ²	0 to 65535 (Note)				
		Pn10A (80E)	Linear deceleration constant	2	×10000 command units/s ²	0 to 65535 (Note)				
	(Note) Settin	g 0 automaticall			units/s					
	•The following cannot be specified for this FB: "Acceleration/deceleration curve designation", "Forward rotation current limit designation" and "Reverse rotation current limit designation". If these functions are									
			ance outside the FB.	n curren	t limit designation . In	inese functions are				
	This FB may a	act differently ac	cording to unit versions	of the Po	osition Control Units w	hen executing this FB				
		gin Search oper		er naram	eters are transferred	Do not execute this				
	Earlier than	FB durin								
	2.0 or later The parameter transferring status is hold until the Origin search is completed. After the completion, the Move Absolute command is executed.									
	Earlier than Version 2.0 Version 2.0 or later									
	Origin s	earch ON OFF	Origin	search						
		ON OFF		Execute						
	Servo Para Tra	meter ON	Servo Pa	rameter Transfer		η				
		solute		bsolute	ON					
	Movemen Interrupt Fe		Movem Interrupt F		OFF	ļ Ļ				
				•	ON					
		Done OFF		Done						
		Error OFF	ſ	Error	ON OFF					
	Comm	and speed	Con	nmand sp						
	Multistart Error occurs Origin search ends									
	Absolute Movement with Interrupt Feeding ends									
			t, Write Data, Read Data	and Sav	ve Data Bits of the Pos	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									
			and Save Data Bit is le		a Bit in the Axis Opera	ating Output Memory				
	• This FB uses the Absolute Movement and the Interrupt Feeding 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).									
	Note:									
	For calculation of bit addresses, these bits are referenced in this FB in the first execution of each instance, and when changing "Unit No. (UnitNo)", "Axis No. (Axis)" of the input variable and set "Start (Execute) ".									



■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	DINT	+0	-2,147,483,648 to	Specify the target position.
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.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in progress.
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	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 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.