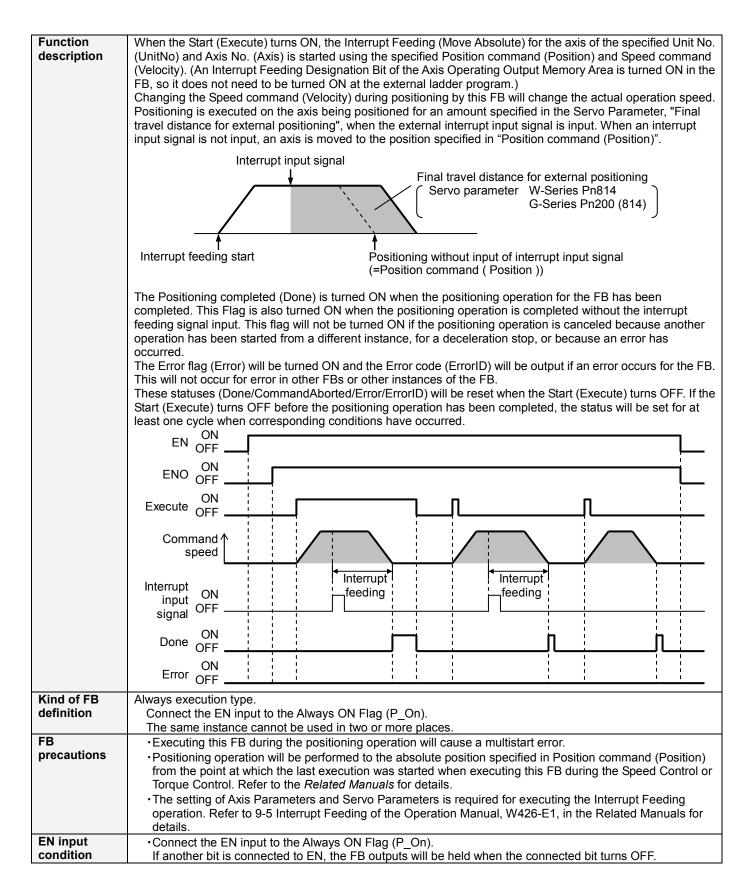
|--|

# Move Absolute with Interrupt Feeding (DINT) \_NCF015\_MoveAbsolute3\_DINT

<b>Basic function</b>	Executes Interrupt Feeding	with Move Absolut	e Absolute command.		
Symbol		NCE01	5_MoveAbsolute3_DINT	1	
	Always ON (P_On)	(BOOL)	(BOOL)		
		EN EN	ENO		
	U	nit No. (INT)	(BOOL)	<ul> <li>Positioning completed</li> </ul>	
		xis No. – UnitNo	Done (BOOL)	– Abort	
	A.	(BOOL)	CommandAborted (BOOL)		
		Start - Execute	Error	<ul> <li>Error flag</li> </ul>	
	Position con	nmand - (DINT) Position	(WORD) ErrorID	- Error code	
	Speed con	nmand – (DINT) Velocity			
File name	Lib\FBL\omronlib\PositionC	ontroller\NCF\_NC	F015_MoveAbsolute3 DI	NT10.cxf	
Applicable	Position Control Unit CJ	1W-NCF71, CS1W	/-NCF71		
models		S1*-CPU**H Unit V			
		1*-CPU**H Unit Ve			
		1M-CPU** Unit Ve '1H			
		rsion 5.0 or later			
Languages in	Ladder programming				
function block definitions					
Conditions for			hould be the Position Control Unit version 1.2 or earlier.		
usage	(It will not be required in the	e Position Control (	Unit version 1.3 or later)		
	CX-Programmer Setting The function blocks relate	ed to the Position (	Control Linits will not operat	te if the area H512 or higher (default	
				k memory allocation. Make sure to	
	change the memory area	to unused area (D	M or EM, for example) from	n the CX-Programmer. To change this	
	value, click <i>PLC/Functio</i>	n Block Memory/	Function Block Memory /	Allocation from the Menu Bar.	
	Function Block Memory Allocation	[NewPLC1]	X		
	FB Instance Area Start Addres		Size OK		
	No Retain H512 Retain H1408	H1407 H1535	896 128 Cancel		
	Timers T3072	T4095	1024 Edit		
	Counters C3072	C4095	1024 Default		
		Specify unu	sed area.		
		The required	d size varies depending on the	used FB and the number of FBs.	
		space canno	ot be found, the CX-Programm	am is specified or sufficient free er will display a compile error.	
	Function Bloc Memory Allocation	[NewPLC+]		4	
	FB Instanct Tea Start Addres	ss End Address D32767	<u>ок</u>		
	Retain H1408	H1535	128 Cancel		
	Timers T3072 Counters C3072	T4095 C4095	1024 Edit	En anna la fanora di	
			Default	For example, to use the memory area from D32020 to D32767	
			Advanced	(748 words), specify the	
				addresses as shown in the left.	



Restrictions Other Application	<ul> <li>The following cannot be specified for this FB: "Acceleration/deceleration curve designation", "Forward rotation current limit designation" and "Reverse rotation current limit designation". If any of these functions is required, specify them in advance outside the FB.</li> <li>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 rising edge of ENO. For the same reason, do not use these bits for coil outputs (OUT commands).</li> <li>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 Bit is left ON.</li> <li>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).</li> <li>Note:</li> <li>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) ".</li> <li>Turning the Start Trigger ON from OFF will operate the Servomotor (axis1) connected to the Position Control</li> </ul>
example	Unit with a unit number 0 using the Move Absolute command with the Interrupt Feeding enabled.
	Unit No.: 0       CPU     NCF       Servomotor       Axis 1       Interrupt input signal       Start Trigger     Bit B       Bit A       Bit A
	Sample
	Always ON (P_On)  Always ON (P_On)  Always ON (P_On)  BN  C  C  C  C  C  C  C  C  C  C  C  C  C
	Unit No. (INT) (BOOL) Positioning completed &0 UnitNo Done Bit B
	Axis No. (INT) (BOOL) Abort &1 Axis CommandAborted Bit C
	Start Bit A(BOOL) Execute(BOOL) ErrorError flag Bit D
	Position command +2000(DINT) Position(WORD) Error Code D0
	Speed command (DINT) +20000 Velocity
Related manuals	Position Control Units OPERATION MANUAL (W426-E1) SECTION 9 Positioning 9-5 Interrupt Feeding 12-4 Error Codes

#### ■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	Position	DINT	+0	-2,147,483,648 to	Specify the target position.
				+2,147,483,647	Unit: Command units
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.

#### 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		<ol> <li>(ON): Aborted         It will be aborted when any of the following conditions is met during operation         <ul> <li>Turns ON when the other Move command done (Duplicate Move).</li> <li>Stopped with Decleration Stop or Emergency Stop.</li> <li>Executed Servo Unlock, Deviation Counter Reset on an operating axis.</li> <li>Attempted to execute FB while Servo Unlock, Deceleration Stop, Emergency Stop or Deviation Counter Reset Bit is ON.</li> <li>Detected the Stop Execution Flag is ON.</li> <li>The Absolute Movement Bit is changed by the other FB during Absolute Movement in operation.</li> </ul> </li> </ol>
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.

## ■Version History

Version	Date	Contents		
1.00	2005.07.	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.