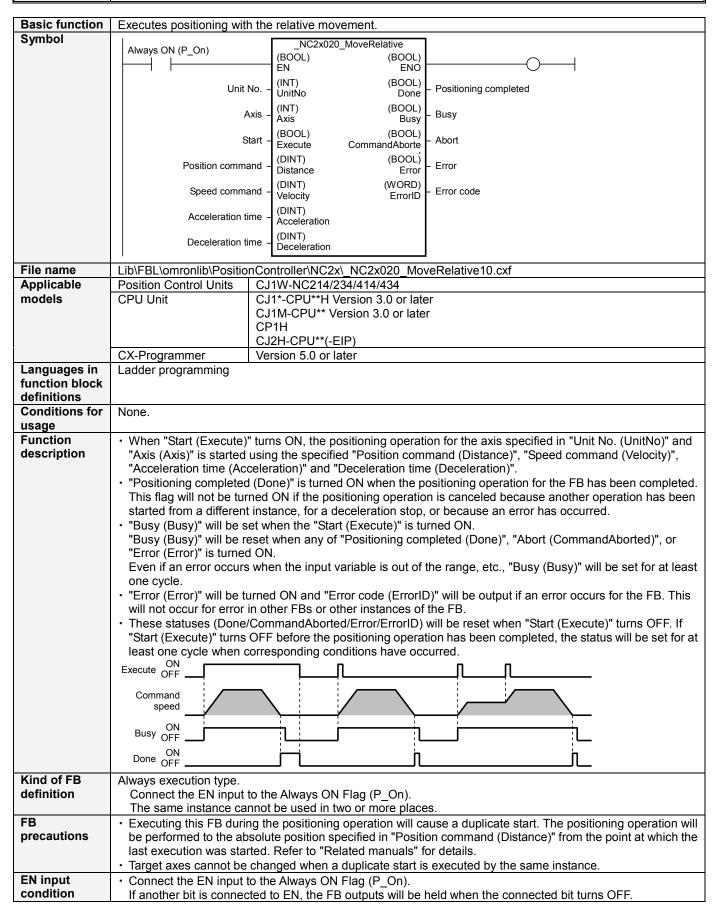
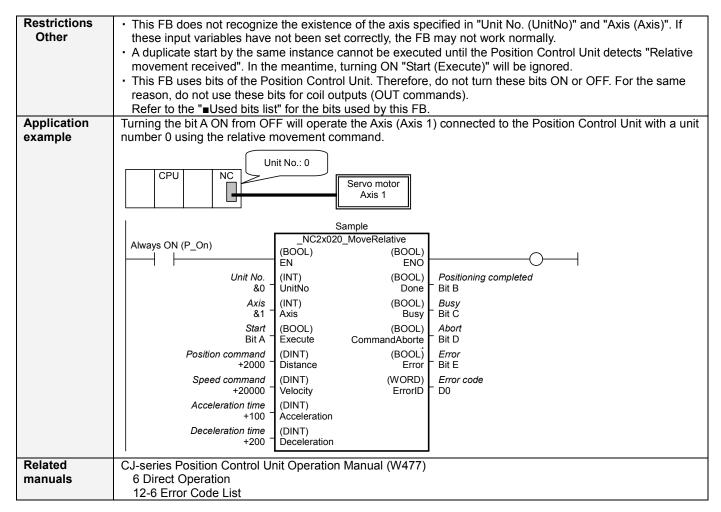
Move Relative _NC2x020_MoveRelative





■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 &94	Specify the unit number.
Axis	Axis	INT	&1	&1 to &4	Specify the axis number.
Start	Execute	BOOL	0(OFF)		f: Starts the relative movement.
Position	Distance	DINT	+0	-2147483648 to	Specify the target position. Unit: Command units.
command				+2147483647	
Speed	Velocity	DINT	+1	+1 to	Specify the target speed. Unit: Command units/s.
command				+2147483647	Changing the value while this FB is in operation
					will change the actual operating speed.
Acceleration	Acceleration	DINT	+0	+0 to +250000	Specify the acceleration time. Unit: ms.
time					Changing the value while this FB is in operation
					will change the actual operating acceleration time.
Deceleration	Deceleration	DINT	+0	+0 to +250000	Specify the deceleration time. Unit: ms.
time					Changing the value while this FB is in operation
					will change the actual operating deceleration time.

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1(ON): FB operating normally
				0(OFF): FB not started / FB ended with error
Positioning completed	Done	BOOL		Turns ON when the positioning operation has been completed.
Busy	Busy	BOOL		Turns ON when FB is in the process.
Abort	CommandAborted	BOOL		Turns ON when an abort has occurred in the FB. Refer to "Error code (ErrorID)" for details.
Error	Error	BOOL		Turns ON when an error has occurred in the FB. Refer to "Error code (ErrorID)" for details.
Error code	ErrorID	WORD		Returns the error code when an error occurred in the FB. Refer to "■Error code list" for details.

■Error code list

Error name	Error code	Probable cause	Clearing method		
Input variable out of range	#0001	The value of input variable of this FB is out of valid range.	Set the value of input variable within the specified range.		
Operating memory area allocation out of range	#0002	The allocation of Axis Operating Memory Area of Common Parameter is out of allowable setting range.	Correct the allocation of Axis Operating Memory Area of Common Parameter so that it falls within the allowable setting range of data.		
Unit error	#1001	An error in individual unit has occurred.	Check "Unit common error code". Identify the error cause from the Operation Manual of the Position Control Unit.		
Axis error	#1002	An error in individual axis has occurred.	Check "Axis error code". Identify the error cause from the Operation Manual of the Position Control Unit.		
Unit setup	#2000	The Position Control Unit is not in unit ready status.	Execute the FB after putting the Position Control Unit in unit ready status.		
Interrupt feeding	#2002	"Interrupt feeding specification" of the Direct Operation Command Memory area was ON when MoveAbsolute, MoveRelative or MoveVelocity was executed.	Turn OFF "Interrupt feeding specification" of the Direct Operation Command Memory area. Execute MoveAbsolute, MoveRelative or MoveVelocity.		
Deceleration stop	#2100	The deceleration stop (Deceleration stop / Synchronous group stop Selection / All Synchronous Unit stop) or the Error counter reset output was executed while the FB was active.	Due to the deceleration stop command, the active FB was interrupted. But this is normal operation. Check that the deceleration stop command has started correctly.		
Servo unlock	#2102	The Servo unlock was executed while the FB was active.	Due to the servo unlock command, the active FB was interrupted. But this is normal operation. Check that the servo unlock command has started correctly.		
Duplicate start of "Absolute movement"	#2200	A duplicate start of "Absolute movement" interrupted the active FB.	The operation command different from the active FB was executed and the active FB was interrupted.		
Duplicate start of "Relative movement"	#2201	A duplicate start of "Relative movement" interrupted the active FB. (Excluding relative movement by high-speed PTP.)	Check that other operation commands started correctly.		
Duplicate start of "Speed control"	#2202	A duplicate start of "Speed control" interrupted the active FB.			
Command disabled	#2300	FB commands have not been accepted.	Execute the FB after putting the unit in status that can accept commands.		
Relative movement	#3201	"Relative movement" of the Direct Operation Command Memory area has been operated by the outside of the FB.	Do not operate each bit which the active FB is operating, by the external unit of the FB. Do not use it on OUT command.		

■Used bits list

Memory area	Name	Data type	Address	Note
Direct Operation Command	Relative movement	BOOL	B+00.01	
Memory area	Command position	DINT	B+02	
	Command speed	DINT	B+04	
	Acceleration time	DINT	B+08	
	Deceleration time	DINT	B+10	

■Version History

= version mistory				
Version	Date	Contents		
1.00	2009.06.	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.