NCCPU	Time-specified Move Relative(REAL):
140	_NCCPU140_MoveTimeRelative_REAL

Basic function	Positioning is performed with relative movement in a specified time period.			
Symbol				
	Always ON (P_On) _NCCPU140_MoveTimeRelative_REAL (BOOL) (BOOL)			
	Axis No. (INT) (BOOL) Positioning completed			
	Axis Done Start (BOOL) (BOOL) Frror flag			
	Execute Error Code Position command (REAL) (WORD) (May be omitted)			
	Total positioning time (REAL)			
	PositioningTime Acceleration time (REAL)			
	Acceleration Deceleration time (REAL)			
	Bulse output method (INT)			
	OutPulseSelect			
File name	Lib\FBL\omronlib\PositionController\NC-CPU(CJ1MCPU2x)_NCCPU020_MoveTimeRelative_REAL10.cxf			
Applicable	CPU Unit CJ1M-CPU21/22/23 Unit version 3.0 or higher			
	CP1L-***DT1-*			
models	CX-Programmer Version 5.0 or higher			
for usage	None			
Function	Executes positioning on the axis of the specified Axis No. (Axis) with the specified Position command			
description	(Distance), Iotal positioning time (Positioning lime), Acceleration time (Acceleration), and Deceleration time (Deceleration) when Start (Execute) is turned ON (using the selected Pulse output method)			
	Speed command values are automatically determined based on Position command (Distance), Total			
	positioning time (PositioningTime), Acceleration time (Acceleration), and Deceleration time (Deceleration).			
	reached).			
	The Error flag (Error) will be turned ON and Error code (ErrorID) will be output when an error related to this FB			
	These statuses, Positioning completed (Done)/ Error flag (Error)/ Error code (ErrorID), will be reset when Start			
	(Execute) is turned OFF. If Start (Execute) was turned OFF before positioning is completed, the status will be			
	Speed			
	Position command			
	Acceleration time Deceleration time			
	Iotal positioning time			
	OFF			
	OFF			
	Speed			
	positioning positioning time			
	Error ON OFF			
Kind of FB	Connect Always ON type			
definition	Connect the EN input to the Always ON Flag (P_ON).			
	The same instance cannot be used in two or more places.			

FB precautions	 CW output is taken as + direction and CCW output is taken as – direction. When using the Pulse ouput 0 and 1 simultaneously, use the same Pulse output method for them. Set the Total positioning time (PositioningTime) for Acceleration time (Acceleration) and Deceleration time (Deceleration), so that the sum of the Acceleration time (Acceleration) and Deceleration) would not exceed the Total positioning time (PositioningTime). If Start (Execute) is turned ON with no origin defined, the present value of output pulse counts will be cleared to 0 and the next positioning operation is started with the present value of 0. (See the diagram below.) Execute ON OFF Speed
	PV 0 No Origin ON Flag OFF
EN input condition	 Connect the EN input to the Always ON Flag (P_ON). If a different type of bit is connected to EN, the FB outputs will be maintained when the connected bit is turned OFF.
Restrictions Other	 On CPU Unit, Acceleration and Deceleration rates are refreshed every 4ms. For this reason, there may be some variations in the actual Acceleration and Deceleration times depending on the settings of the input variables for this FB. In low-speed operations (such as when a long Total positioning time (PositioningTime) is set for a small Position command (Position)), setting a long Acceleration time (Acceleration) and Deceleration time (Deceleration) may cause some variations in the actual Total positioning time. An execution of this FB during an axis operation (i.e., the Multiple start function using this FB) will cause some variations in the actual Total positioning time. Executions of another FB or instance during an execution of this FB (i.e., the Multiple start function using another FB or instance) will cause some variations in the actual Total positioning time (that is, positioning operation will not be performed in the specified time period). However, the Positioning completed (Done) will be output at completion of a positioning operation.
example	When the Start trigger turns from OFF to ON, a positioning operation will be performed using the Servomotor connected to the Pulse output 0 on the CJ1M CPU Unit with relative movement in a specified time period.
	Start trigger Bit B Bit B Bit C Bit A Bit A Positioning completed Bit B Bit A Bit B Bit B Bit B Bit B Bit A Bit A Bit B Bit B
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Related manuals	 CJ1M CPU Units Operation Manual (W395) 5-7 PULSE OUTPUT: PLS2(887) 6-3-3 Origin Search Error Processing (Pulse Output Stop Error Codes) SYSMAC CP Series CP1L CPU Unit Operation Manual (W462)

Variable Tables Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): Starts FB
					0 (OFF): Does not start FB
Axis No.	Axis	INT	&0	&0 to &1	&0: Pulse output 0
					&1: Pulse output 1
Start	Execute	BOOL	0 (OFF)		Starts positioning with relative movement
Position	Distance	REAL	+0.0	-2.147483e+009	Specify a distance for relative movement.
command				to	Unit: pulse
				+2.147483e+009	
Total	PositioningTime	REAL	+1.0	+1.0 to +65535.0	Specify a positioning time.
positioning time					Unit: ms
Acceleration	Acceleration	REAL	+1.0	+1.0 to +65535.0	Specify an acceleration time.
time					Unit: ms
Deceleration	Deceleration	REAL	+1.0	+1.0 to +65535.0	Specify a deceleration time.
time					Unit: ms
Pulse output	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output
method					&1: Pulse + direction output

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB operating normally
				0 (OFF): FB not operating normally
Positioning	Done	BOOL		1 (ON) indicates that positioning is completed.
completed				
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code	ErrorID	WORD		The error code of the error occurred in the FB will be
(May be omitted)				output. For details of the errors, refer to the sections of
				the manual listed in the Related manuals above. When
				the specified Axis No. is out of the range, #0000 will be
				output.

Revision History

Version	Date	Contents
1.00	2005.2.	Original production

Note

This manual is a reference that explains the function block functions. It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.