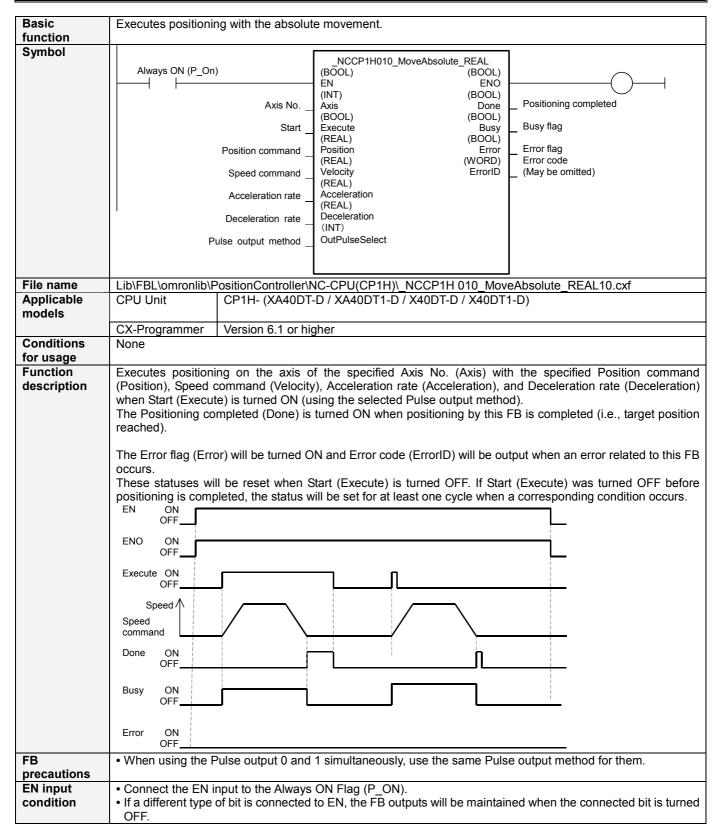
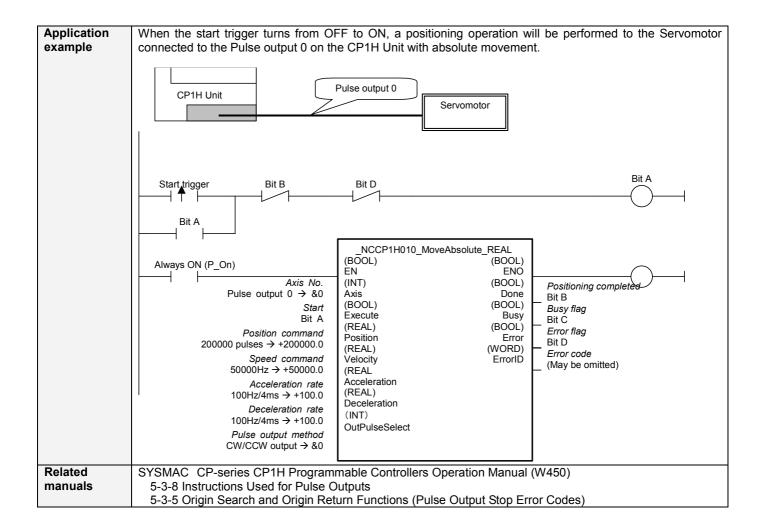
Position Controller

CP1H-(XA40DT-D / XA40DT1-D / X40DT-D / X40DT1-D)

01 111 (70 (400) 10 / 70 (4		/
FB name	Function name	Function description
_NCCP1H010_MoveAbsolute_REAL	Move Absolute (REAL)	Executes positioning using absolute movement.
_NCCP1H011_MoveAbsolute_DINT	Move Absolute (DINT)	Executes positioning using absolute movement.
_NCCP1H020_MoveRelative_REAL	Move Relative (REAL)	Executes positioning using relative movement.
_NCCP1H021_MoveRelative_DINT	Move Relative (DINT)	Executes positioning using relative movement.
_NCCP1H030_MoveVelocity_REAL	Speed Control (REAL)	Controls speed.
_NCCP1H031_MoveVelocity_DINT	Speed Control (DINT)	Controls speed.
_NCCP1H050_Home_REAL	Origin Search (REAL)	Executes origin search to define an origin.
_NCCP1H051_Home_DINT	Origin Search (DINT)	Executes origin search to define an origin.
_NCCP1H061_Stop_REAL	Deceleration Stop (REAL)	Decelerates an operating axis to a stop.
_NCCP1H062_Stop_DINT	Deceleration Stop (DINT)	Decelerates an operating axis to a stop.
_NCCP1H110_MoveInterrupt_REAL	Interrupt Feeding(REAL)	Moves the axis for a specified distance after an interrupt input turns ON.
_NCCP1H111_MoveInterrupt_DINT	Interrupt Feeding(DINT)	Moves the axis for a specified distance after an interrupt input turns ON.
_NCCP1H120_MoveSequence	Sequential Positioning	Performs positioning sequentially.
_NCCP1H130_MoveTimeAbsolute_ REAL	Time-specified Move Absolute(REAL)	Positioning is performed with absolute movement in a specified time period.
_NCCP1H131_MoveTimeAbsolute_ DINT	Time-specified Move Absolute(DINT)	Positioning is performed with absolute movement in a specified time period.
_NCCP1H140_MoveTimeRelative_R EAL	Time-specified Move Relative(REAL)	Positioning is performed with relative movement in a specified time period.
_NCCP1H141_MoveTimeRelative_D INT	Time-specified Move Relative(DINT)	Positioning is performed with relative movement in a specified time period.
_	Read Status	Reads the output status.
_NCCP1H204_ReadActualPosition_ REAL	Read Present Position(REAL)	Reads the present position of the specified axis.
_NCCP1H205_ReadActualPosition_ DINT	Read Present Position(DINT)	Reads the present position of the specified axis.
_NCCP1H610_SetPosition_REAL	Present Position Change(REAL)	Changes the present position to the specified position data.
_NCCP1H611_SetPosition_DINT	Present Position Change(DINT)	Changes the present position to the specified position data.

Move Absolute (REAL): _NCCP1H010_MoveAbsolute_REAL





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position	Position	REAL	+0.0	-2.147483e+009	Specifies the target position.
command				to	Unit: Pulses
				+2.147483e+009	
Speed command	Velocity	REAL	+1.0	+1.0	Specifies the target speed.
				to	Unit: Hz
				+100000.0	
Acceleration rate	Acceleration	REAL	+1.0	+1.0	Specifies the acceleration rate.
				to	Unit: Hz/4ms (Increase (Hz) in frequency
				+65535.0	per Pulse control period (4ms))
Deceleration rate	Deceleration	REAL	+1.0	+1.0	Specifies the deceleration rate.
				to	Unit: Hz/4ms (Decrease (Hz) in frequency
				+65535.0	per Pulse control period (4ms))
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 completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output.

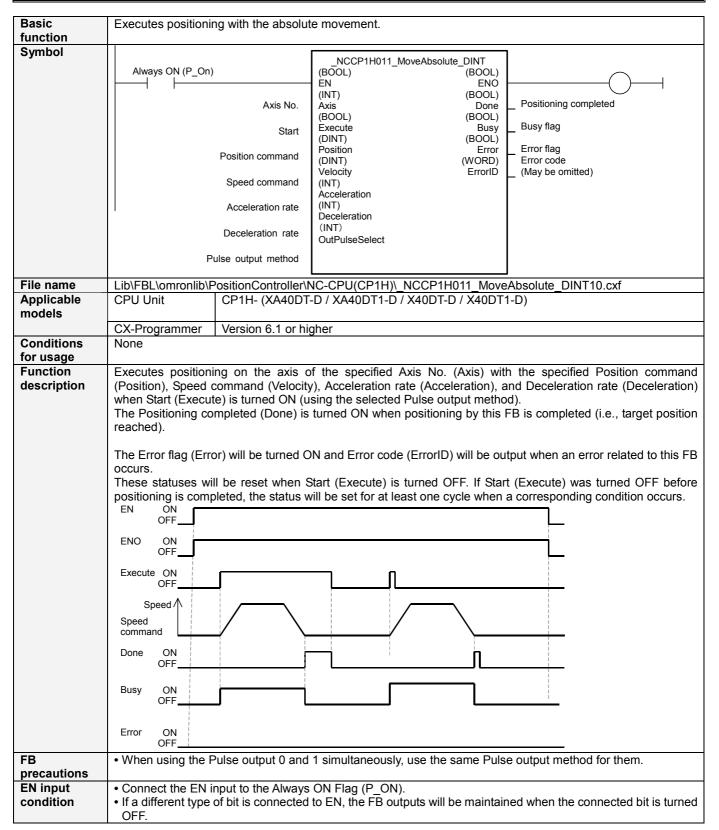
■ Revision History

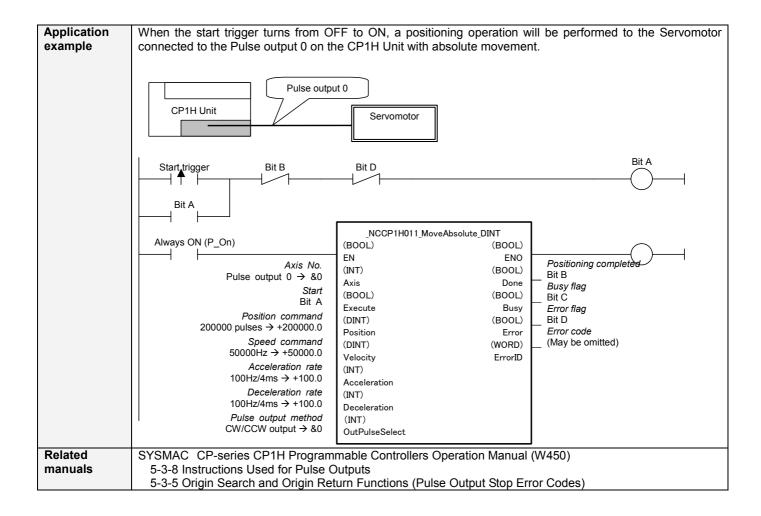
= 110 1101011 1110101 3		
Version	Date	Contents
1 00	2005 9	Original production

■ Note

This document explains the function of the function block.

Move Absolute (DINT): _NCCP1H011_MoveAbsolute_DINT





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position	Position	DINT	+0	-2,147,483,648	Specifies the target position.
command				to	Unit: Pulses
				+2,147,483,647	
Speed command	Velocity	DINT	&1	&1 to &100000	Specifies the target speed.
					Unit: Hz
Acceleration rate	Acceleration	INT	&1	&1 to &65535	Specifies the acceleration rate.
					Unit: Hz/4ms (Increase (Hz) in frequency
					per Pulse control period (4ms))
Deceleration rate	Deceleration	INT	&1	&1 to &65535	Specifies the deceleration rate.
					Unit: Hz/4ms (Decrease (Hz) in frequency
					per Pulse control period (4ms))
Pulse output	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output
method					&1: Pulse + direction output

Output Variables

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				
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
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
				Unit No. or Axis. No. is out of the range, #0000 will be
				output.

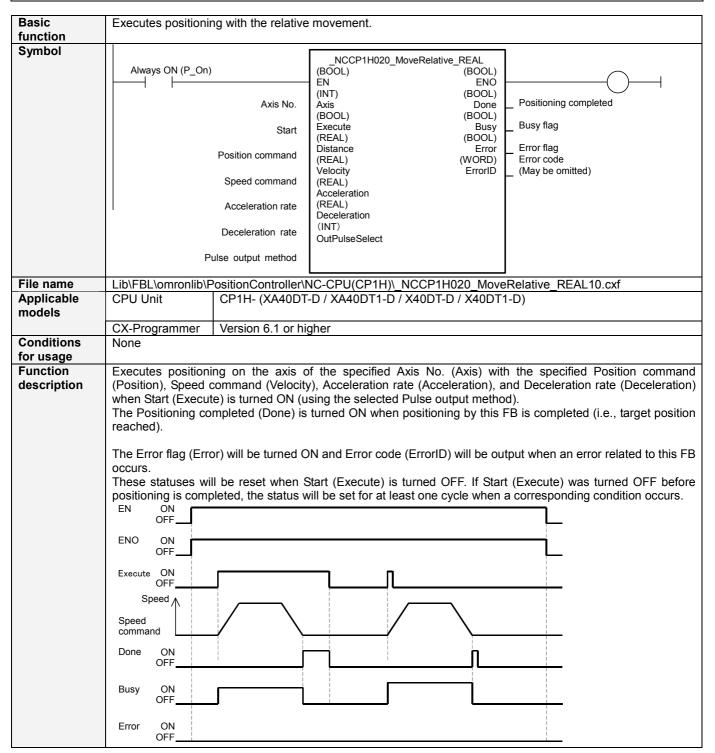
■ Revision History

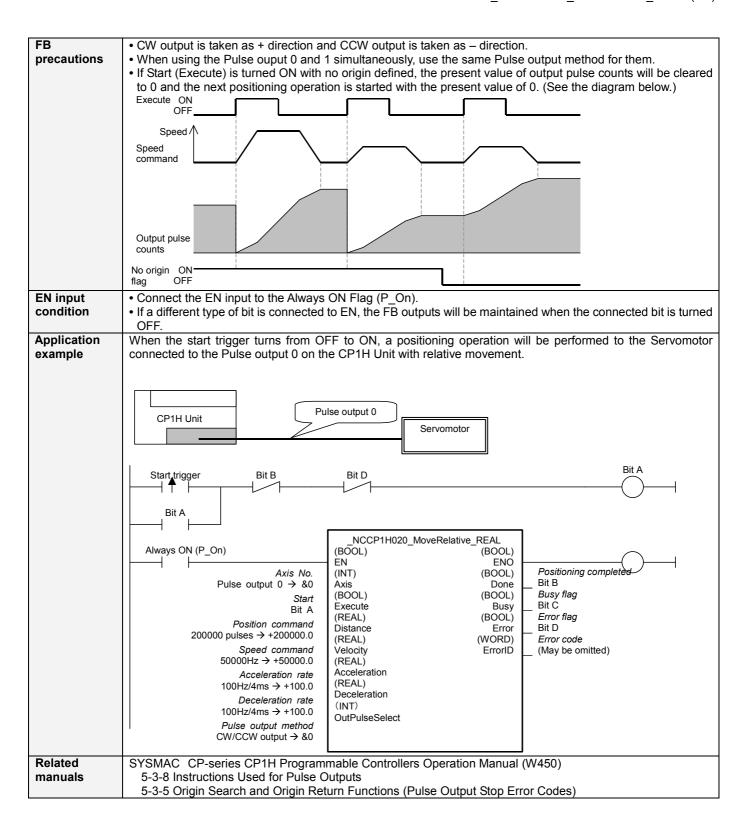
Version	Date	Contents	
1.00	2005.9.	Original production	

■ 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.







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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position	Distance	REAL	+0.0	-2.147483e+009	Specifies the relative travel distance.
command				to	Unit: Pulses
				+2.147483e+009	
Speed command	Velocity	REAL	+1.0	+1.0	Specifies the target speed.
				to	Unit: Hz
				+100000.0	
Acceleration rate	Acceleration	REAL	+1.0	+1.0	Specifies the acceleration rate.
				to	Unit: Hz/4ms (Increase (Hz) in frequency
				+65535.0	per Pulse control period (4ms))
Deceleration rate	Deceleration	REAL	+1.0	+1.0	Specifies the deceleration rate.
				to	Unit: Hz/4ms (Decrease (Hz) in frequency
				+65535.0	per Pulse control period (4ms))
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 completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output.

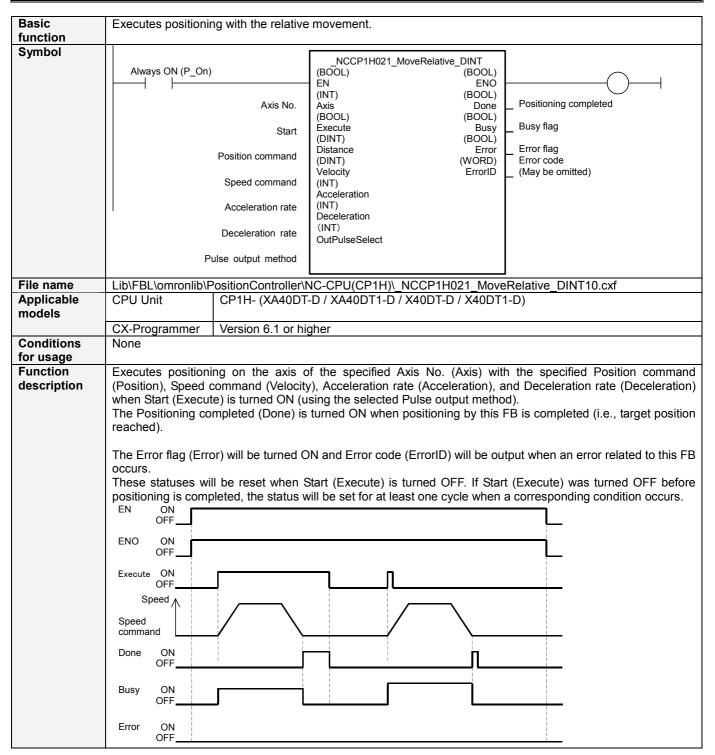
■ Revision History

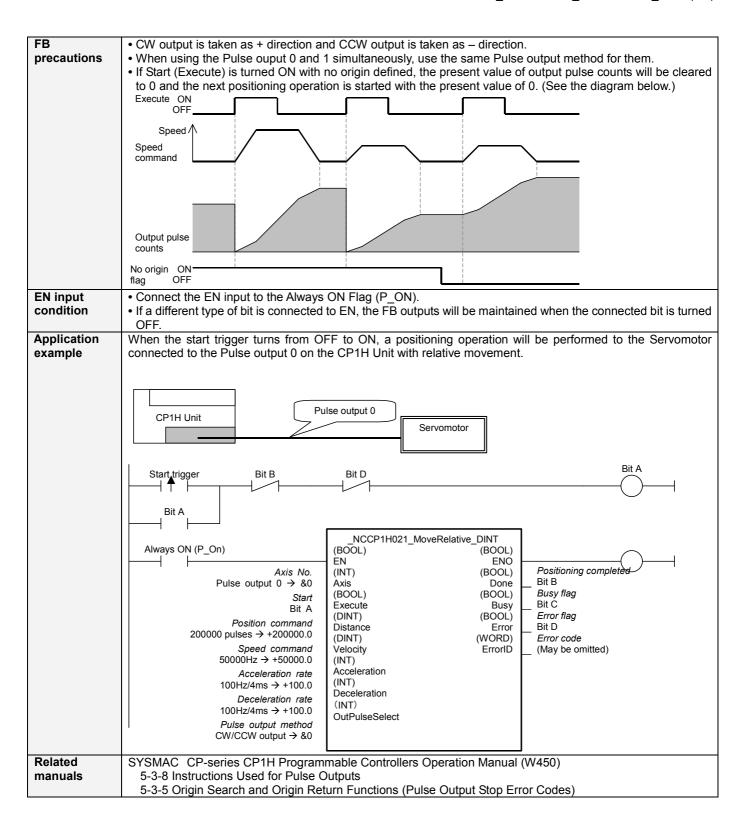
Version	Date	Contents	
1.00	2005.9.	Original production	

■ Note

This document explains the function of the function block.

Move Relative (DINT): _NCCP1H021_MoveRelative_DINT





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position	Distance	DINT	+0	-2,147,483,648	Specifies the relative travel distance.
command				to	Unit: Pulses
				+2,147,483,647	
Speed command	Velocity	DINT	&1	&1 to &100000	Specifies the target speed.
					Unit: Hz
Acceleration rate	Acceleration	INT	&1	&1 to &65535	Specifies the acceleration rate.
					Unit: Hz/4ms (Increase (Hz) in frequency
					per Pulse control period (4ms))
Deceleration rate	Deceleration	INT	&1	&1 to &65535	Specifies the deceleration rate.
					Unit: Hz/4ms (Decrease (Hz) in frequency
					per Pulse control period (4ms))
Pulse output	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output
method					&1: Pulse + direction output

Output Variables

Output variables				_
Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1(ON): FB operating normally
				0(OFF): FB not operating normally
Positioning completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
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
				Unit No. or Axis. No. is out of the range, #0000 will be
				output.

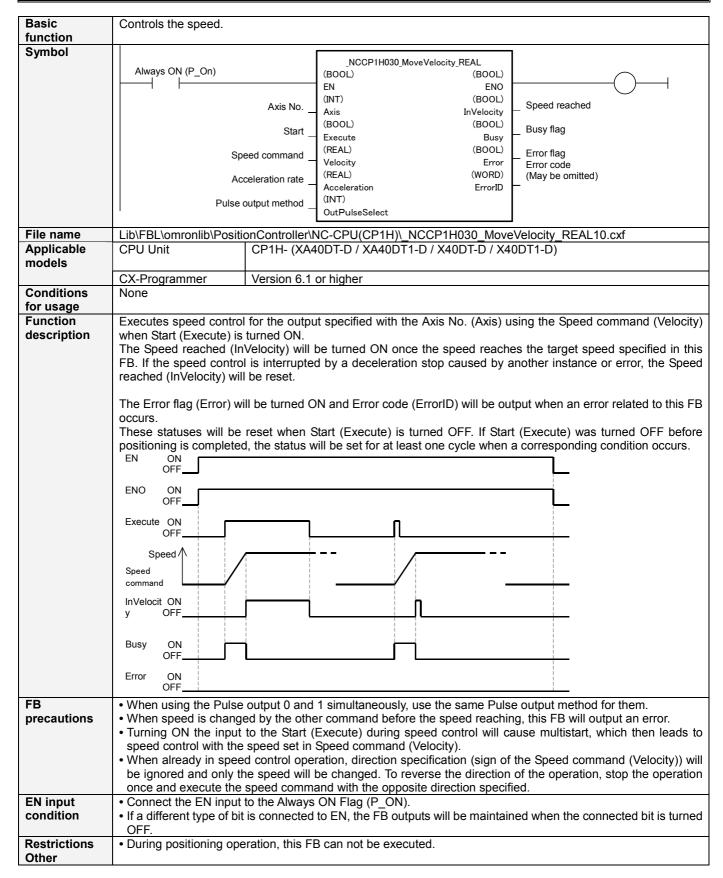
■ Revision History

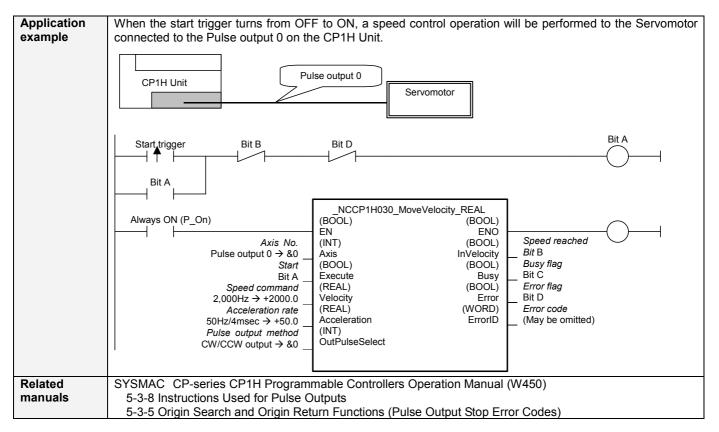
=							
Version	Date	Contents					
1.00	2005.9	Original production					

■ 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.

Speed Control (REAL): _NCCP1H030_MoveVelocity_REAL





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Speed command	Velocity	REAL	+0.0	-100000.0	Specifies the target speed.
•				to	Unit: Hz
				+100000.0	
Acceleration rate	Acceleration	REAL	+1.0	+1.0	Specifies the acceleration rate.
				to	Unit: Hz/4ms (Increase (Hz) in frequency per
				+65535.0	Pulse control period (4ms))
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
Speed reached	InVelocity	BOOL		1 (ON) indicates that the speed has reached the target
				speed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
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
				Unit No. or Axis. No. is out of the range, #0000 will be
				output.

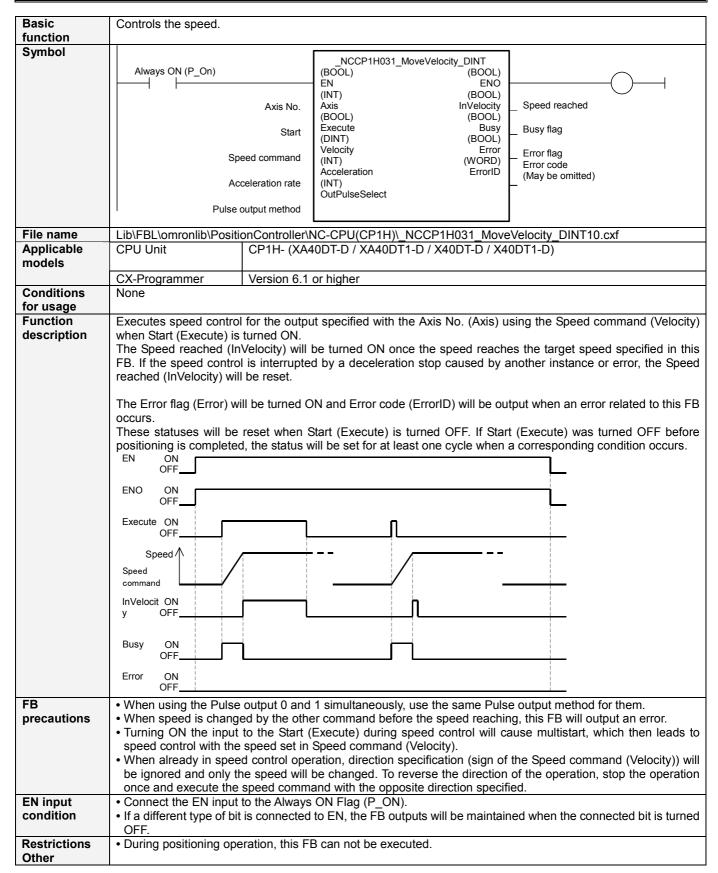
■ Revision History

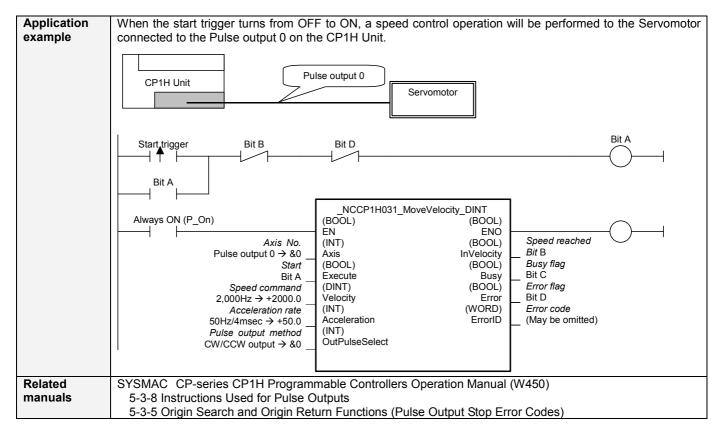
Version	Date	Contents	
1.00	2005.9.	Original production	

■ Note

This document explains the function of the function block.

NCCP1H Speed Control (DINT): _NCCP1H031_MoveVelocity_DINT





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Speed command	Velocity	DINT	+0	-100000	Specifies the target speed.
•	-			to	Unit: Hz
				+100000	
Acceleration rate	Acceleration	INT	&1	&1 to &65,535	Specifies the acceleration rate.
					Unit: Hz/4ms (Increase (Hz) in frequency per
					Pulse control period (4ms))
Pulse output	OutPulseSelect	INT	&0	&0~&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
Speed reached	InVelocity	BOOL		1 (ON) indicates that the speed has reached the target speed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output.

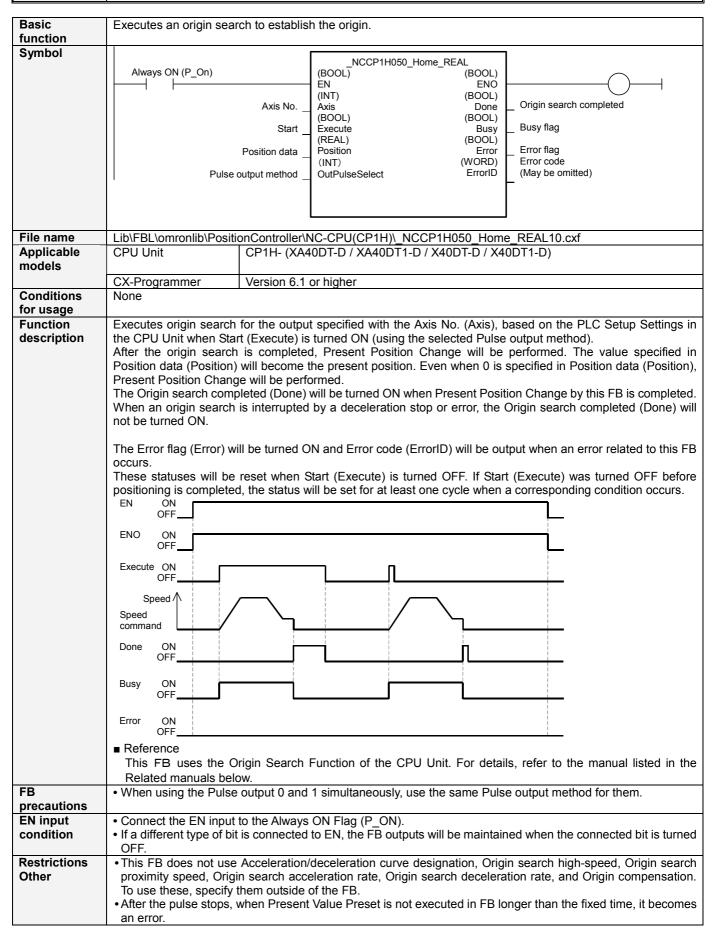
■ Revision History

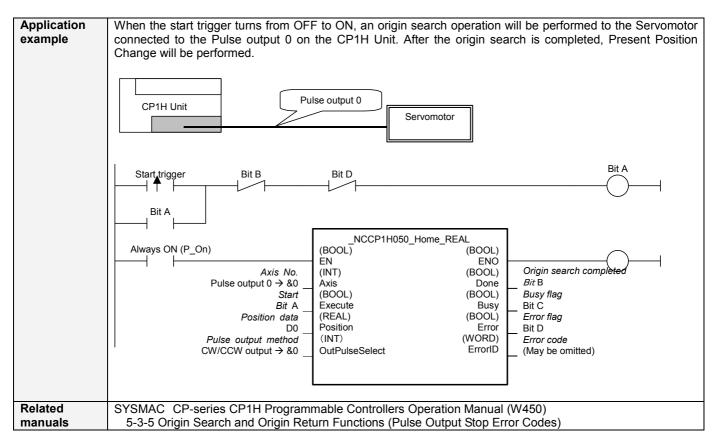
Version	Date	Contents	
1.00	2005.9.	Original production	

■ Note

This document explains the function of the function block.

Origin Search (REAL): _NCCP1H050_Home_REAL





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position data	Position	REAL	+0.0	-2.147483e+009	Specify the value to set the present
				to	position.
				+2.147483e+009	Unit: Pulses
Pulse output	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output
method .					&1: Pulse + direction output

Output Variables

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

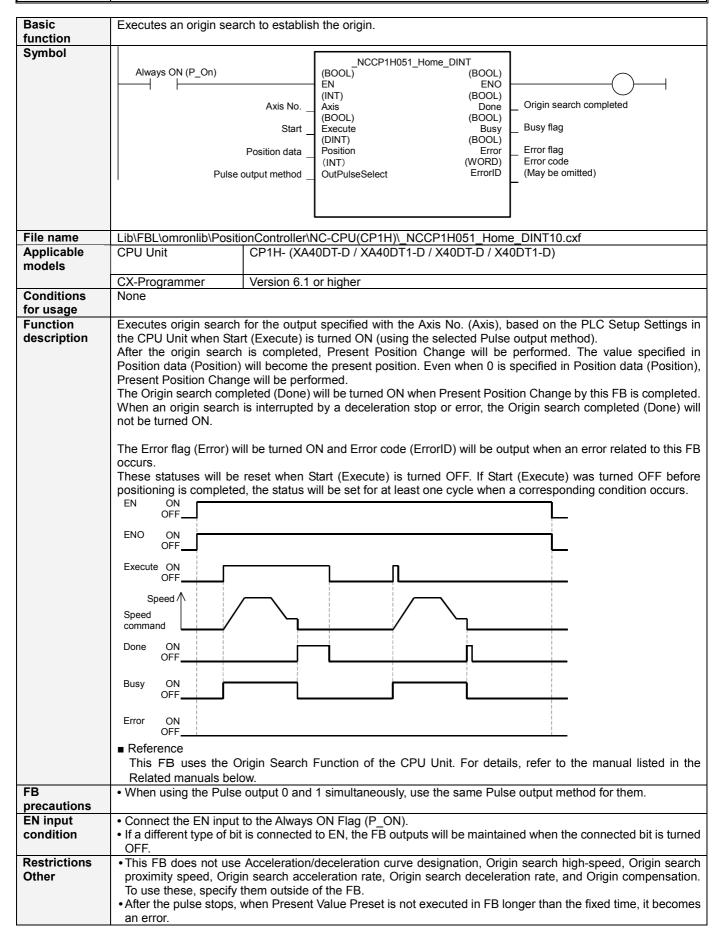
■ Revision History

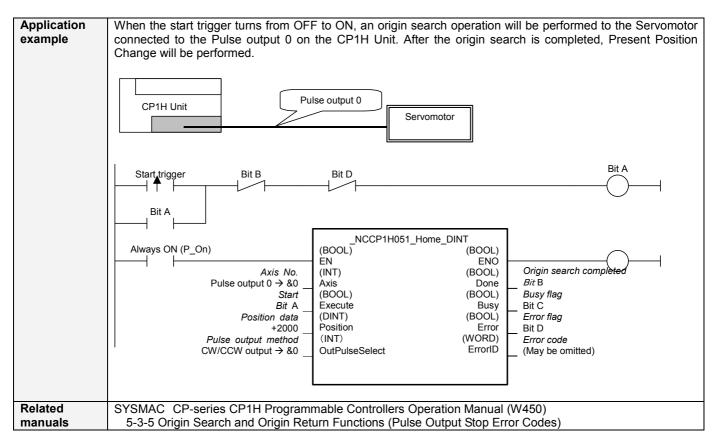
Version	Date	Contents
1.00	2005.9.	Original production

■ Note

This document explains the function of the function block.

Origin Search (DINT): _NCCP1H051_Home_DINT





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position data	Position	DINT	+0	-2,147,483,648	Specify the value to set the present
				to	position.
				+2,147,483,647	Unit: Pulses
Pulse output	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output
method .					&1: Pulse + direction output

Output Variables

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

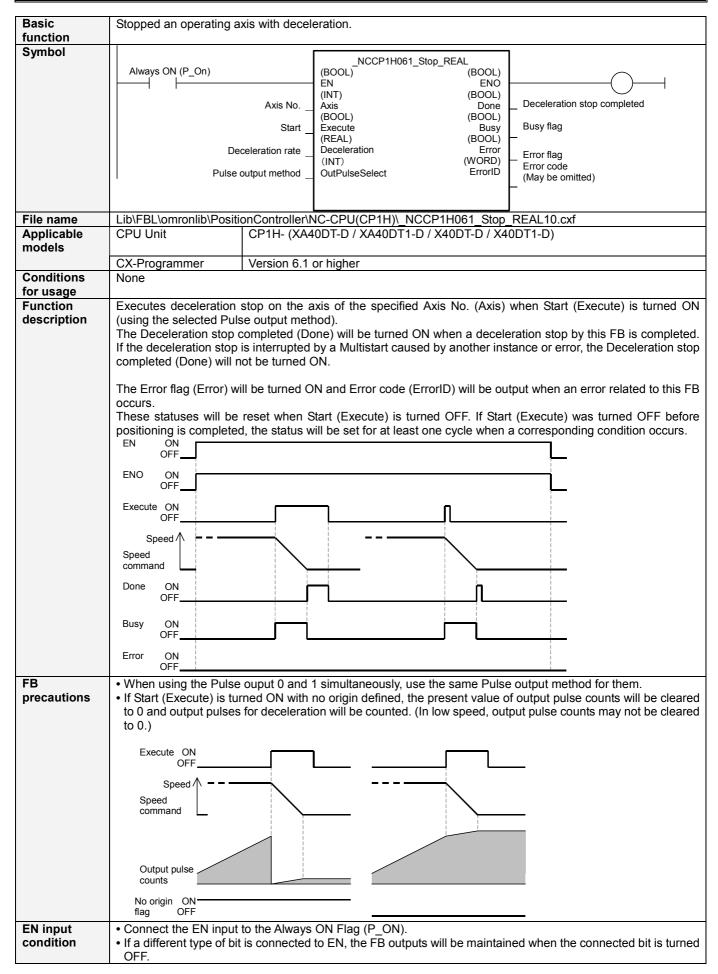
■ Revision History

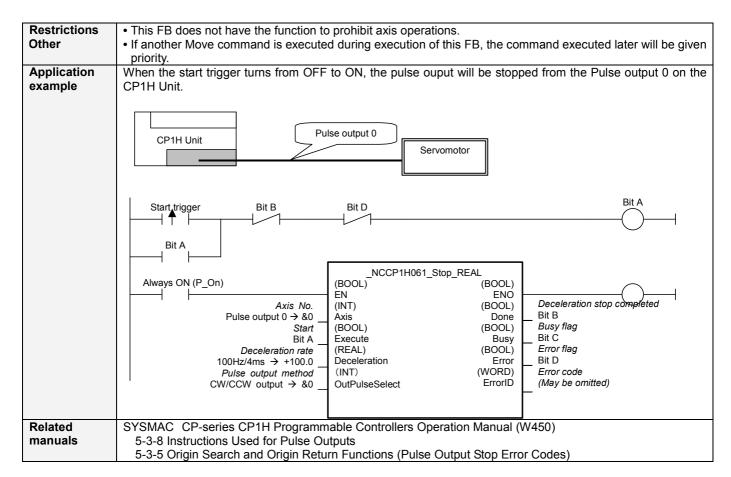
Version	Date	Contents
1.00	2005.9.	Original production

■ Note

This document explains the function of the function block.

Deceleration Stop (REAL): _NCCP1H061_Stop_REAL





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Deceleration rate	Deceleration	REAL	+1.0	+1.0	Specifies the deceleration rate.
				to	Unit: Hz/4ms (Decrease (Hz) in frequency per
				+65535.0	Pulse control period (4ms))
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
Deceleration stop completed	Done	BOOL		1 (ON) indicates that a deceleration stop has been completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output.

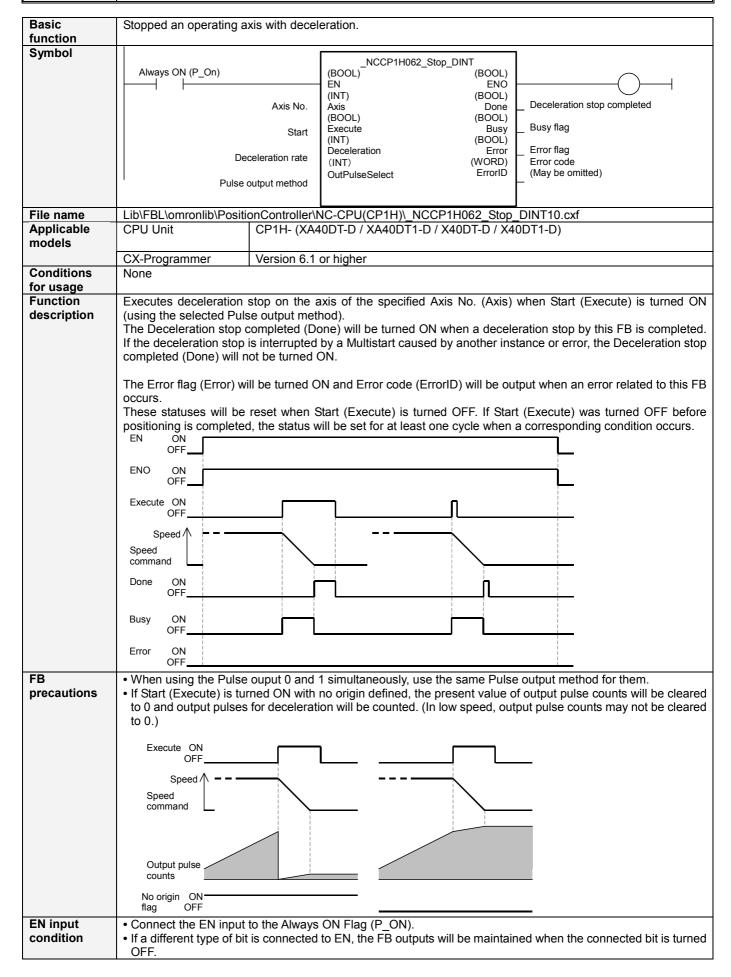
■ Revision History

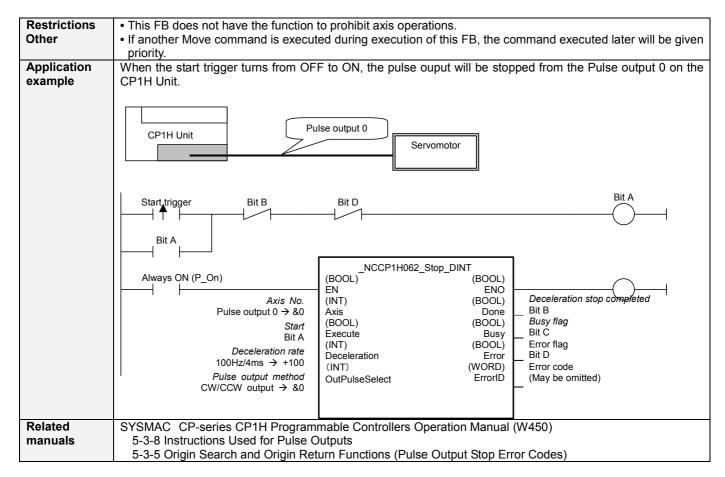
Version	Date	Contents
1.00	2005.9.	Original production

■ Note

This document explains the function of the function block.

Deceleration Stop (DINT): _NCCP1H062_Stop_DINT





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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Deceleration rate	Deceleration	INT	&1	&1	Specifies the deceleration rate.
				to	Unit: Hz/4ms (Decrease (Hz) in frequency per
				+65535	Pulse control period (4ms))
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
Deceleration stop	Done	BOOL		1 (ON) indicates that a deceleration stop has been
completed				completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
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
				Unit No. or Axis. No. is out of the range, #0000 will be
				output.

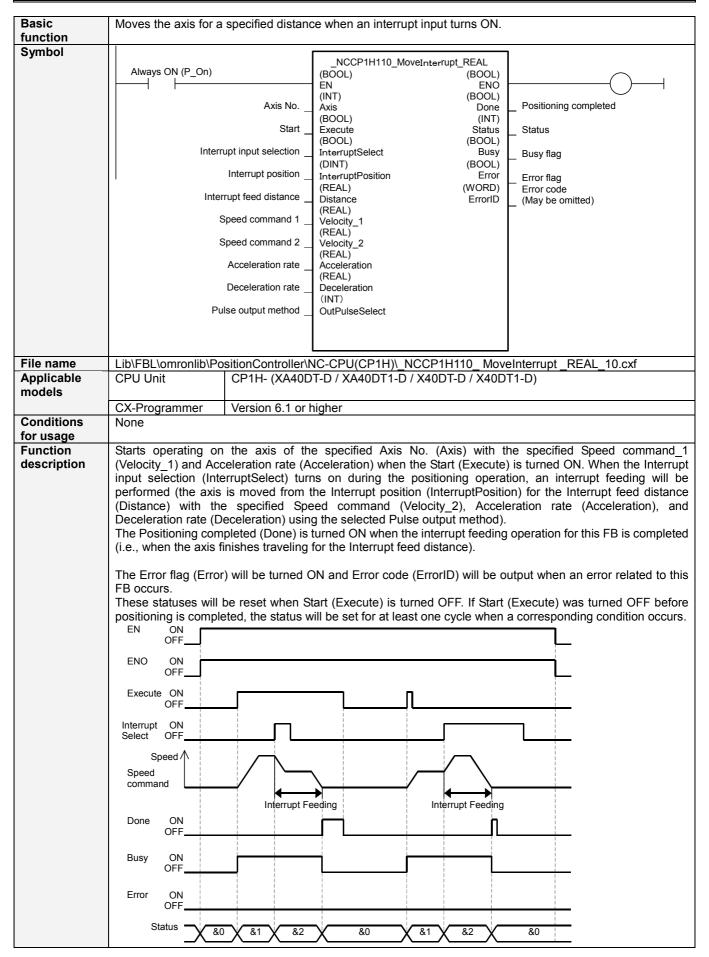
■ Revision History

Version	Date	Contents			
1.00	2005.9.	Original production			

■ Note

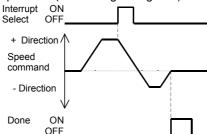
This document explains the function of the function block.

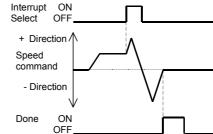
Interrupt Feeding (REAL): _NCCP1H110_MoveInterrupt_REAL



FB precautions

- When using the Pulse output 0 and 1 simultaneously, use the same Pulse output method for them.
- Even when a sufficient deceleration interval cannot be secured, the axis will decelerate with the specified deceleration rate, which will cause the axis to pass the target position. In this case, the axis will reverse the direction to return to the target position. (See the left diagram.)
- When the Speed command 2 (Velocity_2) is greater than the Speed command 1 (Velocity_1) and a sufficient deceleration interval cannot be secured, the axis accelerating to reach the Speed command 2 (Velocity_2) will pass the target position. In this case, the axis will reverse the direction to return to the target position. (See the right diagram.)



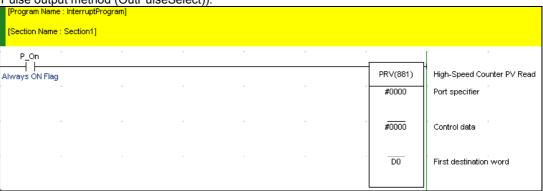


EN input condition

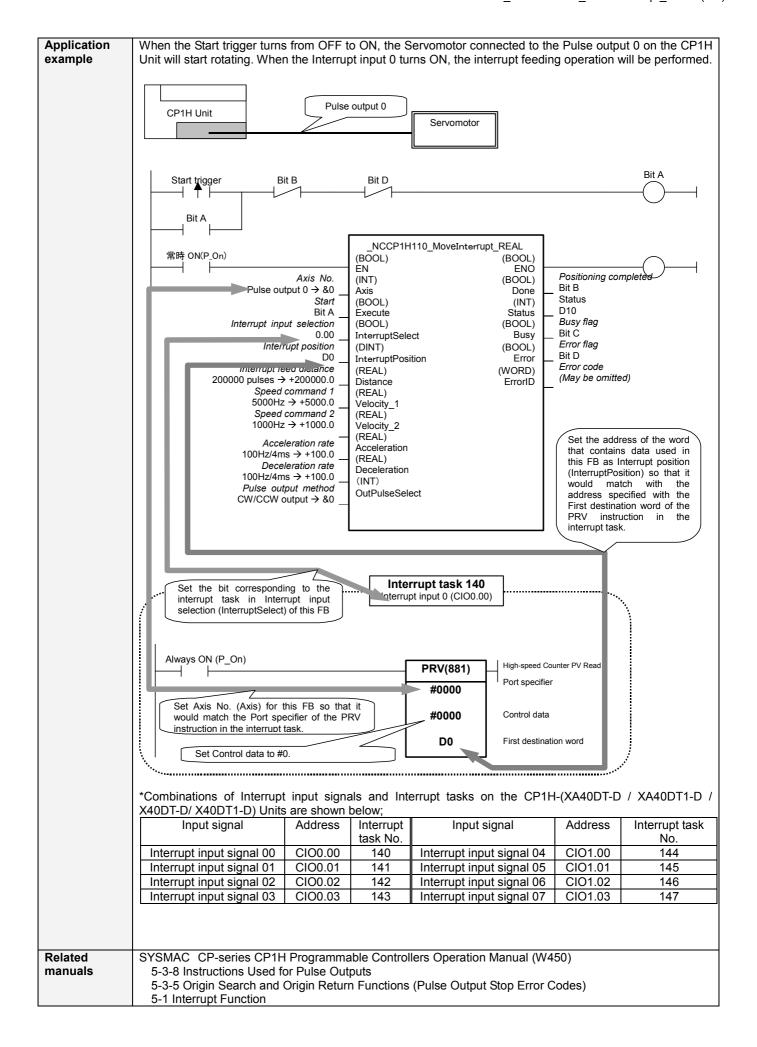
- Connect the EN input to the Always ON Flag (P_ON).
- If a different type of bit is connected to EN, the FB outputs will be maintained when the connected bit is turned OFF.

Restrictions Other

- If the calculation result for an interrupt feeding operation exceeds the valid command range (-2.147483e+009 to +2.147483e+009), the operation will not be executed and the axis will decelerate to a stop.
- An error will occur when an axis is stopped by other operations or a deceleration stop due to a command out of the valid command range.
- All the input variables will be read when the Start (Execute) turns ON and they cannot be changed until the process is completed.
- · Interrupt tasks must be set when using this FB.
- Use the ladder program shown below for interrupt tasks (Ex: for when [&0: Pulse output 0] is specified for the Pulse output method (OutPulseSelect)).



- The Axis No. (Axis) of this FB and the Port specifier of the PRV instruction must match with each other.
- The address of the word that contains data used as Interrupt position (InterruptPosition) for this FB and the address specified by the First destination word for the PRV instruction in the interrupt task must match with each other.
- Set #0000 (hexadecimal) in the Control data of the PRV instruction in the interrupt task.
- Set the bit corresponding to the interrupt task set for the Interrupt input selection (InterruptSelect) of this FB (on CP1H Unit, the built-in input (bit 00 of CIO 0) controls the interrupt task No. 140. For details, refer to the manual listed in the Related manuals below).
- Connect the PRV instruction in the interrupt task to the Always ON Flag (P_On).
- Specify the Port specifier and Control data for the PRV instruction with constants. They cannot be specified with variables.
- Specify the First destination word for the PRV instruction with a word address. It cannot be specified with constants.
- Specify the Interrupt position (InterruptPosition) for this FB with a word address. Do not specify it with constants.
- Make sure to hold the interrupt input signal at least for one cycle until the FB recognizes it.
- When this FB is used, an origin will be determined and the Pulse output PV will be cleared.



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 &3	&0: Pulse output 0 &1: Pulse output 1 &2: Pulse output 2 &3: Pulse output 3
Start	Execute	BOOL	0(OFF)		★: Starts interrupt feeding operation
Interrupt input selection	InterruptSelect	BOOL	0(OFF)		Specify a bit corresponding to the interrupt task to be used.
Interrupt position	InterruptPosition	DINT	+0		Specify the same address as the first destination address set for the PRV instruction in the interrupt task.
Interrupt feed distance	Distance	REAL	+0.0	-2.147483e+009 to +2.147483e+009	Specify a distance that the axis travels after an interrupt input. Unit: pulse The sign indicates the direction of an operation. (+: CW, -: CCW)
Speed command 1	Velocity_1	REAL	+1.0	-100000.0 to -1.0 +1.0 to +100000.0	Specify the target speed before an interrupt feeding operation starts. Unit: Hz The sign indicates the direction of the operation. (+: CW, -: CCW)
Speed command 2	Velocity_2	REAL	+1.0	+1.0 to +100000.0	Specify the speed for an interrupt feeding operation. Unit: Hz
Acceleration rate	Acceleration	REAL	+1.0	+1.0 to +65535.0	Specifies the acceleration rate. Unit: Hz/4ms (Increase (Hz) in frequency per Pulse control period (4ms))
Deceleration rate	Deceleration	REAL	+1.0	+1.0 to +65535.0	Specifies the deceleration rate. Unit: Hz/4ms (Decrease (Hz) in frequency per Pulse control period (4ms))
Pulse output method	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output &1: Pulse + direction output

Output Variables

Name	Variable	Data type	Range	Description
	name			
ENO	ENO	BOOL		1(ON): FB operating normally
				0(OFF): FB not operating normally
Positioning completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Status	Status	INT		0: Start (Execute) = OFF or Positioning completed (Done) = 1 1: Waiting for interrupt input
				2: Interrupt feeding operation in progress
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Axis. No. is out of the range, #0000 will be output.

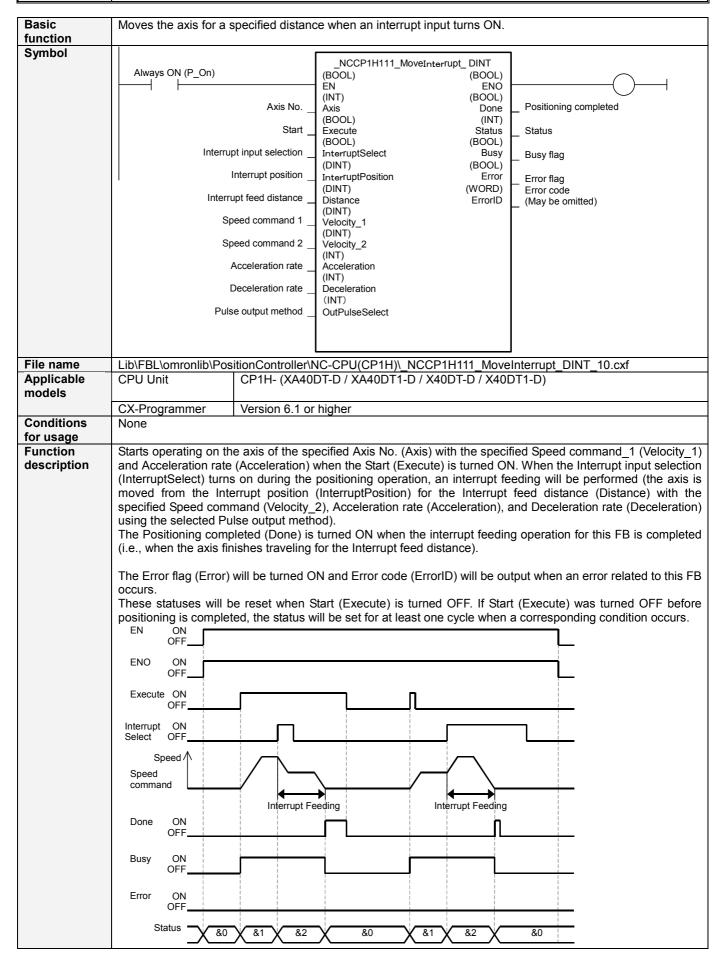
■ Revision History

Version	Date	Contents
1.00	2005.9.	Original production

■ Note

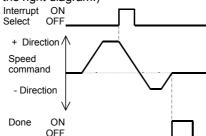
This document explains the function of the function block.

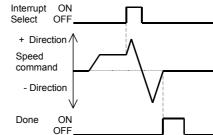
Interrupt Feeding (DINT): _NCCP1H111_MoveInterrupt_DINT



FB precautions

- When using the Pulse output 0 and 1 simultaneously, use the same Pulse output method for them.
- Even when a sufficient deceleration interval cannot be secured, the axis will decelerate with the specified deceleration rate, which will cause the axis to pass the target position. In this case, the axis will reverse the direction to return to the target position. (See the left diagram.)
- When the Speed command 2 (Velocity_2) is greater than the Speed command 1 (Velocity_1) and a sufficient deceleration interval cannot be secured, the axis accelerating to reach the Speed command 2 (Velocity_2) will pass the target position. In this case, the axis will reverse the direction to return to the target position. (See the right diagram.)



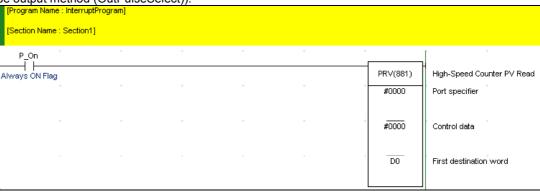


EN input condition

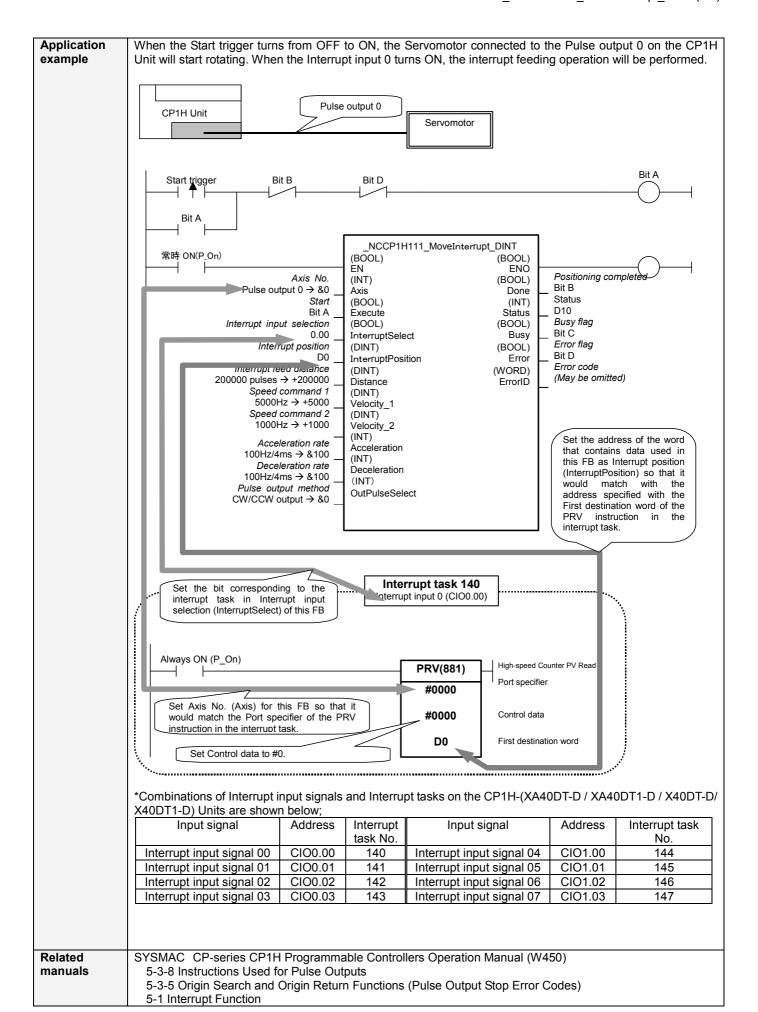
- Connect the EN input to the Always ON Flag (P ON).
- If a different type of bit is connected to EN, the FB outputs will be maintained when the connected bit is turned OFF.

Restrictions Other

- If the calculation result for an interrupt feeding operation exceeds the valid command range (-2,147,483,648 to +2,147,483,647), the operation will not be executed and the axis will decelerate to a stop.
- An error will occur when an axis is stopped by other operations or a deceleration stop due to a command out
 of the valid command range.
- All the input variables will be read when the Start (Execute) turns ON and they cannot be changed until the process is completed.
- Interrupt tasks must be set when using this FB.
- Use the ladder program shown below for interrupt tasks (Ex: for when [&0: Pulse output 0] is specified for the Pulse output method (OutPulseSelect)).



- The Axis No. (Axis) of this FB and the Port specifier of the PRV instruction must match with each other.
- The address of the word that contains data used as Interrupt position (InterruptPosition) for this FB and the address specified by the First destination word for the PRV instruction in the interrupt task must match with each other.
- Set #0000 (hexadecimal) in the Control data of the PRV instruction in the interrupt task.
- Set the bit corresponding to the interrupt task set for the Interrupt input selection (InterruptSelect) of this FB (on CP1H Unit, the built-in input (bit 00 of CIO 0) controls the interrupt task No. 140. For details, refer to the manual listed in the Related manuals below).
- Connect the PRV instruction in the interrupt task to the Always ON Flag (P On).
- Specify the Port specifier and Control data for the PRV instruction with constants. They cannot be specified with variables.
- Specify the First destination word for the PRV instruction with a word address. It cannot be specified with constants.
- Specify the Interrupt position (InterruptPosition) for this FB with a word address. Do not specify it with constants.
- Make sure to hold the interrupt input signal at least for one cycle until the FB recognizes it.
- When this FB is used, an origin will be determined and the Pulse output PV will be cleared.



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 &3	&0: Pulse output 0 &1: Pulse output 1 &2: Pulse output 2 &3: Pulse output 3
Start	Execute	BOOL	0(OFF)		★ : Starts interrupt feeding operation
Interrupt input selection	InterruptSelect	BOOL	0(OFF)		Specify a bit corresponding to the interrupt task to be used.
Interrupt position	InterruptPosition	DINT	+0		Specify the same address as the first destination address set for the PRV instruction in the interrupt task.
Interrupt feed distance	Distance	DINT	+0	-2,147,483,648 to +2,147,483,647	Specify a distance that the axis travels after an interrupt input. Unit: pulse The sign indicates the direction of an operation. (+: CW, -: CCW)
Speed command 1	Velocity_1	DINT	+1	-100000 to -1 +1 to +100000	Specify the target speed before an interrupt feeding operation starts. Unit: Hz The sign indicates the direction of the operation. (+: CW, -: CCW)
Speed command 2	Velocity_2	DINT	+1	+1 to +100000	Specify the speed for an interrupt feeding operation. Unit: Hz
Acceleration rate	Acceleration	INT	+1	&1 to &65535	Specifies the acceleration rate. Unit: Hz/4ms (Increase (Hz) in frequency per Pulse control period (4ms))
Deceleration rate	Deceleration	INT	+1	&1 to &65535	Specifies the deceleration rate. Unit: Hz/4ms (Decrease (Hz) in frequency per Pulse control period (4ms))
Pulse output method	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output &1: Pulse + direction output

Output Variables

Output variables				
Name	Variable	Data type	Range	Description
	name			
ENO	ENO	BOOL		1(ON): FB operating normally
				0(OFF): FB not operating normally
Positioning completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Status	Status	INT		0: Start (Execute) = OFF or Positioning completed (Done) = 1 1: Waiting for interrupt input 2: Interrupt feeding operation in progress
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that the FB is in progress. 1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Axis. No. is out of the range, #0000 will be output.

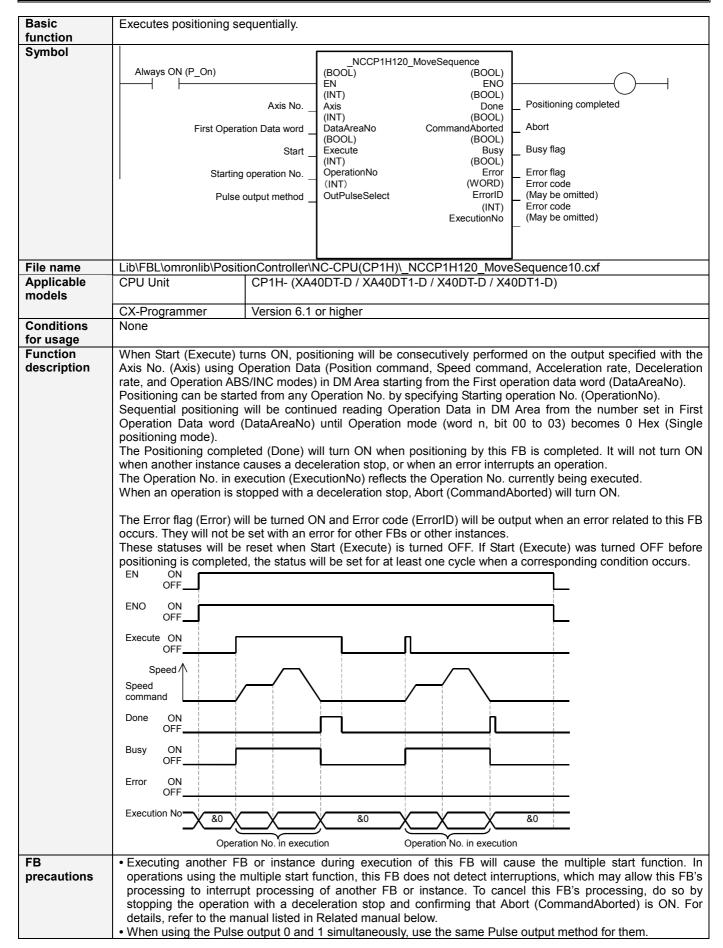
■ Revision History

= Revision flictory						
Version	Date	Contents				
1.00	2005.9	Original production				

■ Note

This document explains the function of the function block.

NCCP1H 120 Sequential Positioning: _NCCP1H120_MoveSequence



EN input Connect the EN input to the Always ON Flag (P ON). condition • If a different type of bit is connected to EN, the FB outputs will be maintained when the connected bit is turned OFF. Restrictions ■ Operation Data Setting Other • Set Operation Data in the DM Area. • 7 consecutive words of the DM Area are used as one Operation Data containing Position command, Speed command, Acceleration rate, Deceleration rate, and Operation ABS/INC modes. • An operation will be stopped with deceleration when an error occurs. • When Operation mode (word n, bit 00 to 03) is set to 1 Hex (Sequential positioning mode), the next Operation Data will be always read ahead. If Operation Data read ahead contains invalid settings, the sequential operation will be stopped during an operation for the first or second Operation Data before the Operation Data that contains the invalid settings. (Ex: If an operation is stopped when executing Operation Data 8, Operation Data 9 or 10 may contain invalid settings.) • Designating target frequencies that cause a sudden speed change in sequential positioning may cause an error because a sufficient acceleration or deceleration interval cannot be secured. However, for this case, the deceleration stop will not be performed. Operation Word Setting range Name Data Bit 00 to 03 Operation mode 0 (Hex) Single positioning mode 1 (Hex) Sequential position mode Bit 04 to 07 ABS/INC mode 0 (Hex) Relative pulse output 1 (Hex) Absolute pulse output Bit 08 to 15 (Not used) Fixed at 00 (Hex) n+1 Acceleration rate 1 to 65,535Hz (0001 to FFFF Hex) 1 to 65,535Hz (0001 to FFFF Hex) n+2 Deceleration rate 1 Target frequency (lower word) n+3 1 to 100,000Hz (00000001 to 000186A0 Hex) n+4 Target frequency (upper word) Absolute: -2,147,483,648 to +2,147,483,647 n+5 Position command (lower word) (80000000 to 7FFFFFF Hex) Position command (upper word) n+6 Relative: -2,147,483,647 to +2,147,483,647 (80000001 to 7FFFFFF Hex) (+: CW, -: CCW) Operation, ABS/INC modes n+7 n+8 Acceleration rate n+9 Deceleration rate 2 Target frequency (lower word) Same as Operation Data 1. n+10 n+11 Target frequency (upper word) n+12 Position command (lower word) n+13 Position command (upper word) n+441 Operation, ABS/INC modes n+442 Acceleration rate

n+443

n+444

n+445

n+446

n+447

64

Deceleration rate

Target frequency (lower word)

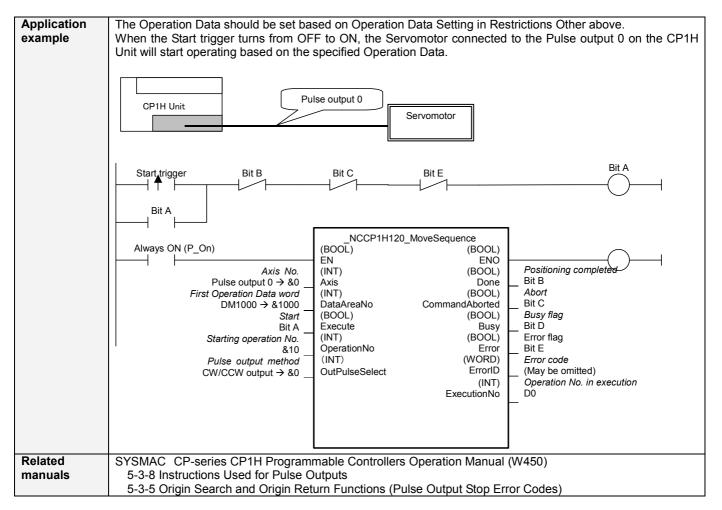
Target frequency (upper word)

Position command (lower word)

Position command (upper word)

Same as Operation Data 1.

Note that, however, Single positioning mode is used regardless of the Operation mode setting.



Name	Variable name	Data	Default	Range	Description
		type			
EN	EN	BOOL			1 (ON): Starts FB
					0 (OFF): Does not start FB
Axis No.	Axis	INT	&0	&0 to &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
First Operation Data word	DataAreaNo	INT	&0	&0 to &32767	Specify the first address of the words in the
•					DM Area containing Operation Data
Start	Execute	BOOL	0(OFF)		★ : Starts sequential positioning
Starting operation No.	OperationNo	INT	&1	&1 to &64	Specify the Operation Data No. based on
					which sequential positioning is started.
Pulse output	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output
method					&1: Pulse + direction output

Output Variables

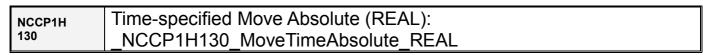
Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1(ON): FB operating normally 0(OFF): FB not operating normally
Positioning completed	Done	BOOL		1 (ON) indicates that sequential positioning is completed
Abort	CommandAborted	BOOL		1 (ON): Aborted
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WOR D		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Axis. No. is out of the range, #0000 will be output.
Operation No. in execution	ExecutionNo	INT		&0: Start (Execute) = 0 or Positioning completed (Done) = 1 &1 to &64: Indicates the Operation Data No. currently being executed.

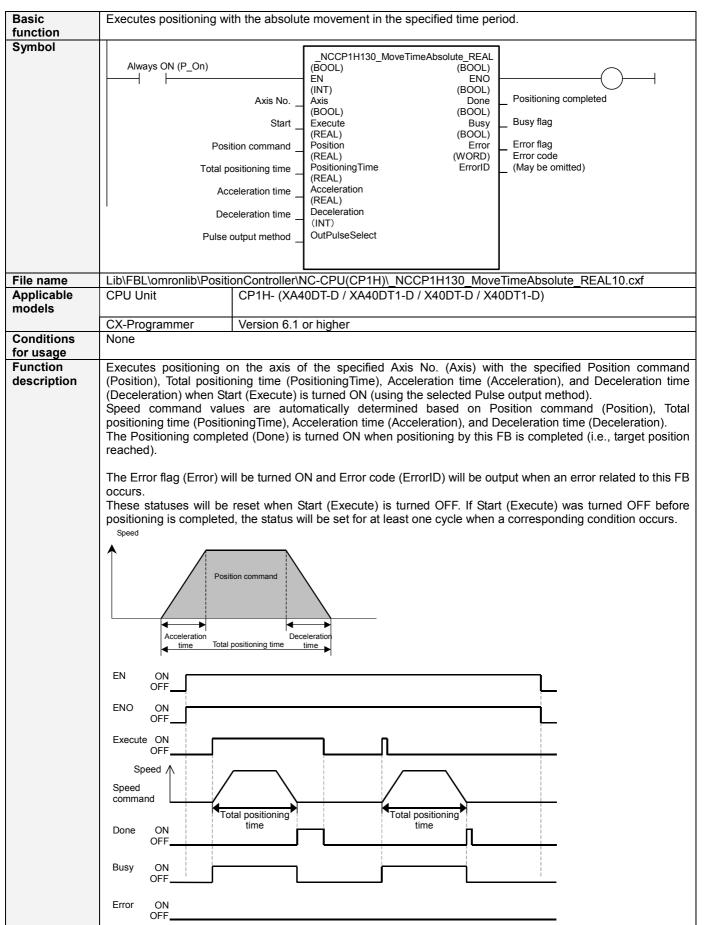
■ Revision History

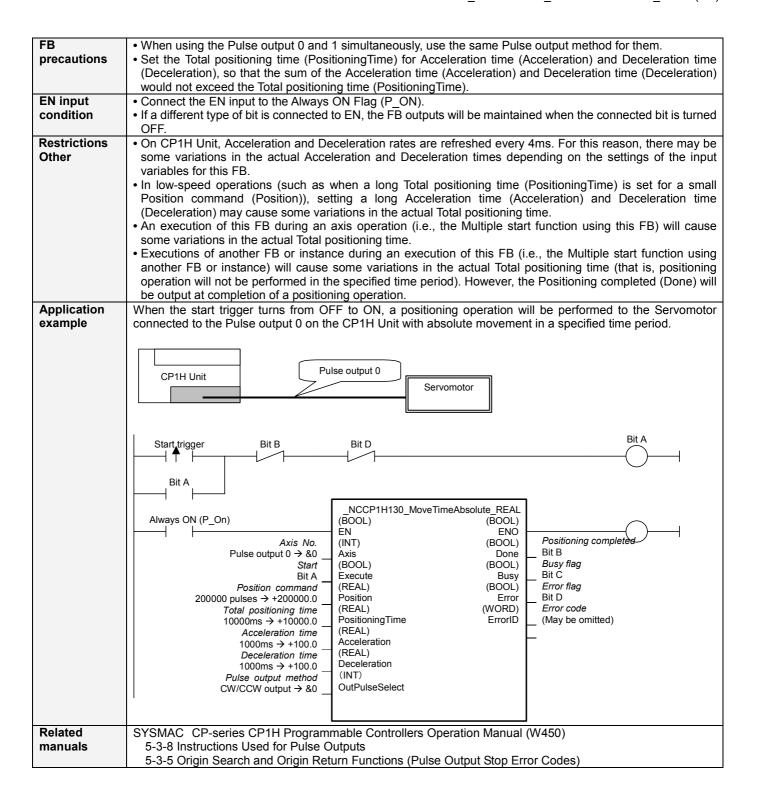
Version	Date	Contents	
1.00	2005.9.	Original production	

■ 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.







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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position	Position	REAL	+0.0	-2.147483e+009	Specifies the target position.
command				to	Unit: Pulses
				+2.147483e+009	
Total positioning	PositioningTime	REAL	+1.0	+1.0 to +65535.0	Specify a positioning time.
time					Unit: ms
Acceleration time	Acceleration	REAL	+1.0	+1.0 to +65535.0	Specify an acceleration time.
					Unit: ms
Deceleration time	Deceleration	REAL	+1.0	+1.0 to +65535.0	Specify a deceleration time.
					Unit: ms
Pulse output	OutPulseSelect	INT	&0	&0 to &1	&0: CW/CCW output
method					&1: Pulse + direction output

Output Variables

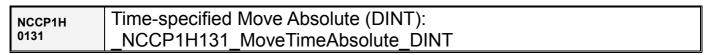
Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1(ON) : FB operating normally 0(OFF): FB not operating normally
Positioning completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON)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

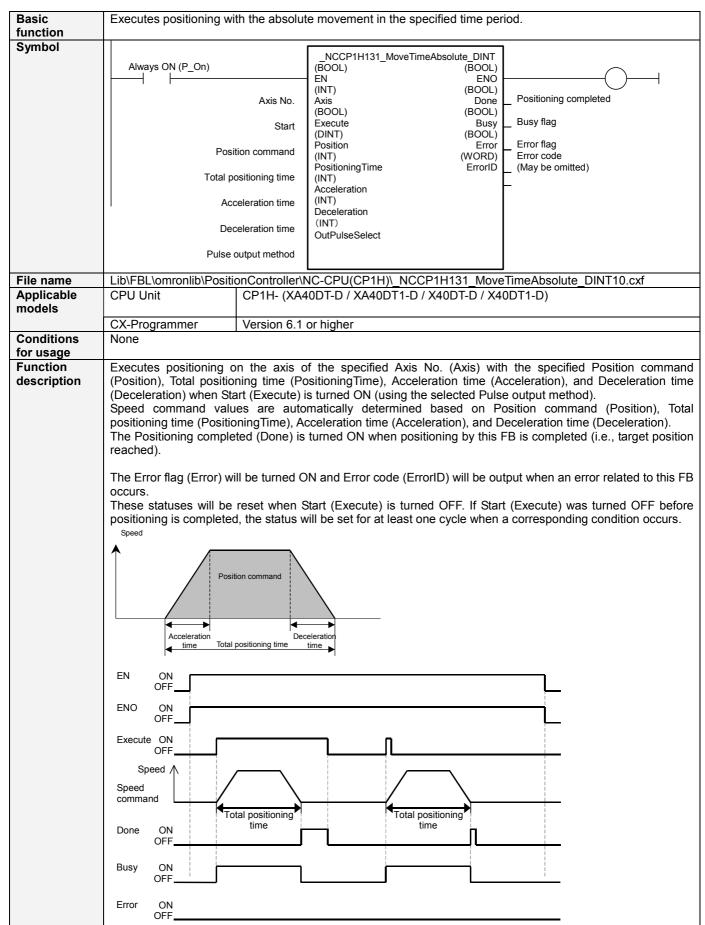
■ Revision History

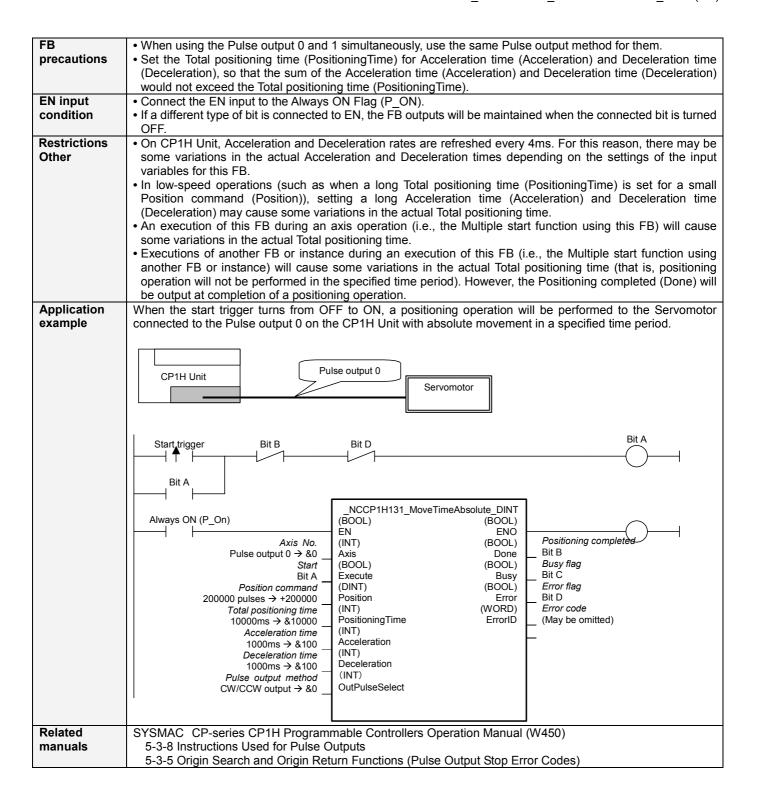
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1.00	2005.9.	Original production		

■ Note

This document explains the function of the function block.







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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position	Position	DINT	+0	-2,147,483,648	Specifies the target position.
command				to	Unit: Pulses
				+2,147,483,647	
Total positioning	PositioningTime	INT	&1	&1 to &65535	Specify a positioning time.
time					Unit: ms
Acceleration time	Acceleration	INT	&1	&1 to &65535	Specify an acceleration time.
					Unit: ms
Deceleration time	Deceleration	INT	&1	&1 to &65535	Specify a deceleration 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 completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Axis. No. is out of the range or the positioning is not performed in the specified time, #0000 will be output.

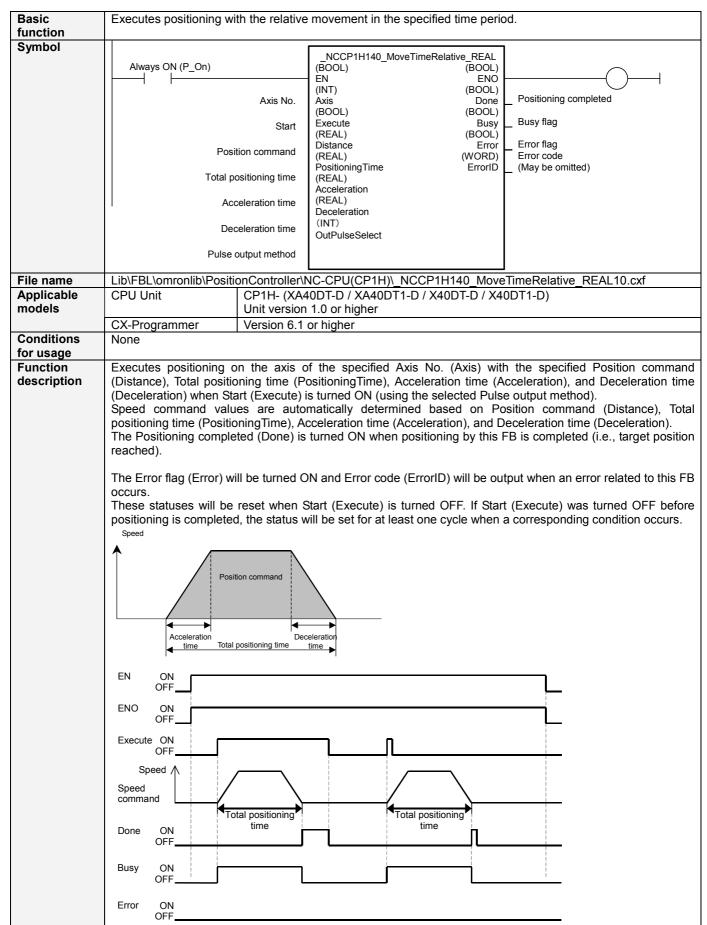
■ Revision History

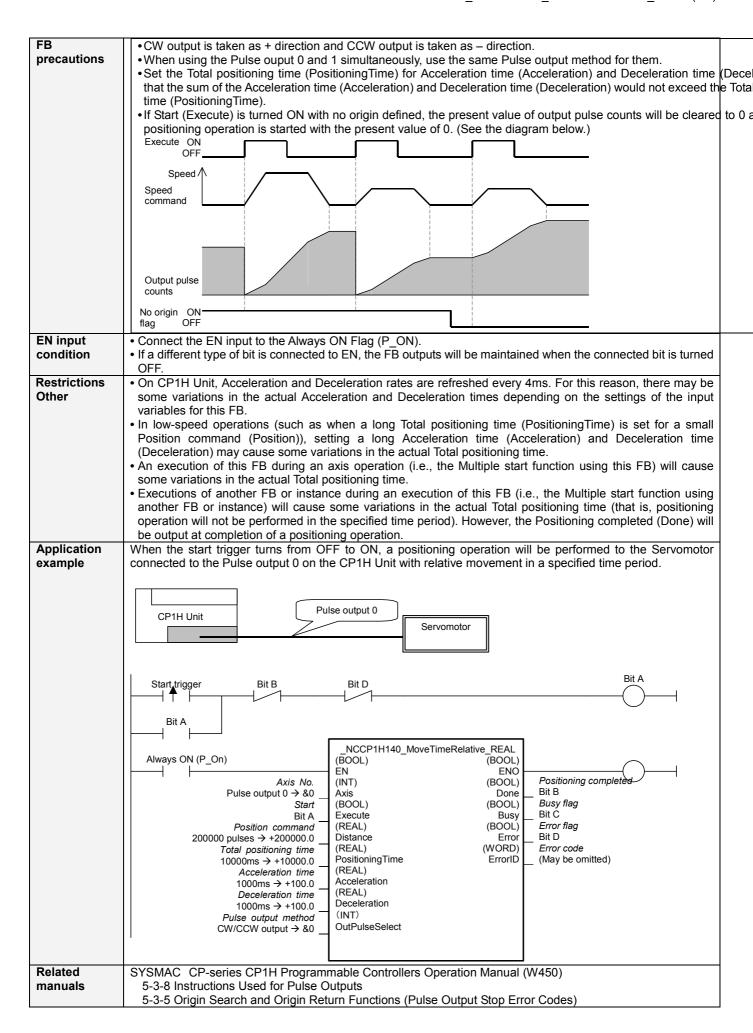
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1.00	2005.9.	Original production

■ Note

This document explains the function of the function block.







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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position	Distance	REAL	+0.0	-2.147483e+009	Specifies the relative travel distance.
command				to	Unit: Pulses
				+2.147483e+009	
Total positioning	PositioningTime	REAL	+1.0	+1.0 to +65535.0	Specify a positioning time.
time					Unit: ms
Acceleration time	Acceleration	REAL	+1.0	+1.0 to +65535.0	Specify an acceleration time.
					Unit: ms
Deceleration time	Deceleration	REAL	+1.0	+1.0 to +65535.0	Specify a deceleration 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 completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Axis. No. is out of the range or the positioning is not performed in the specified time, #0000 will be output.

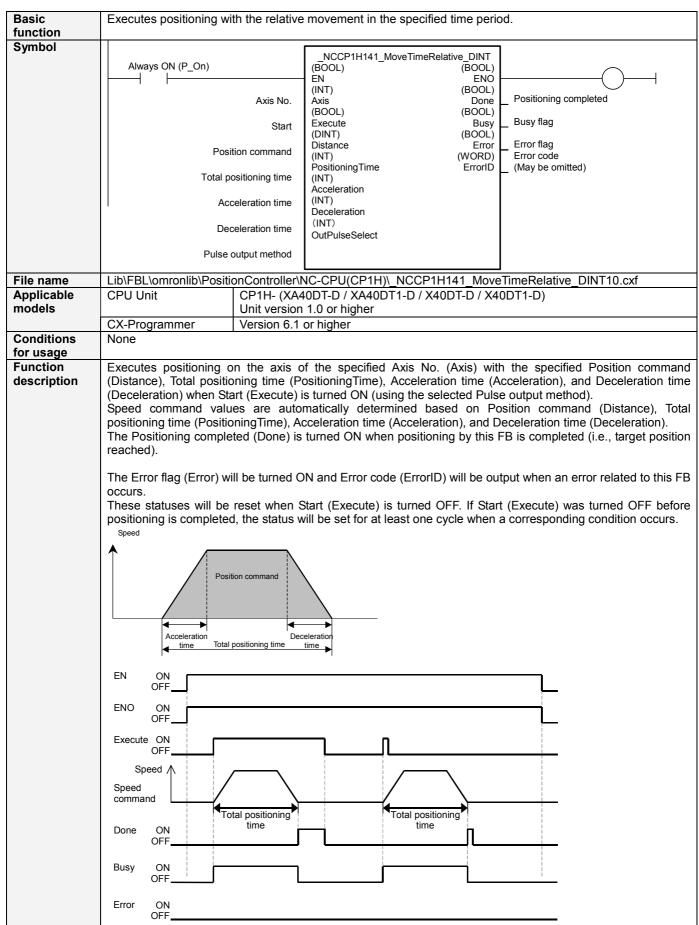
■ Revision History

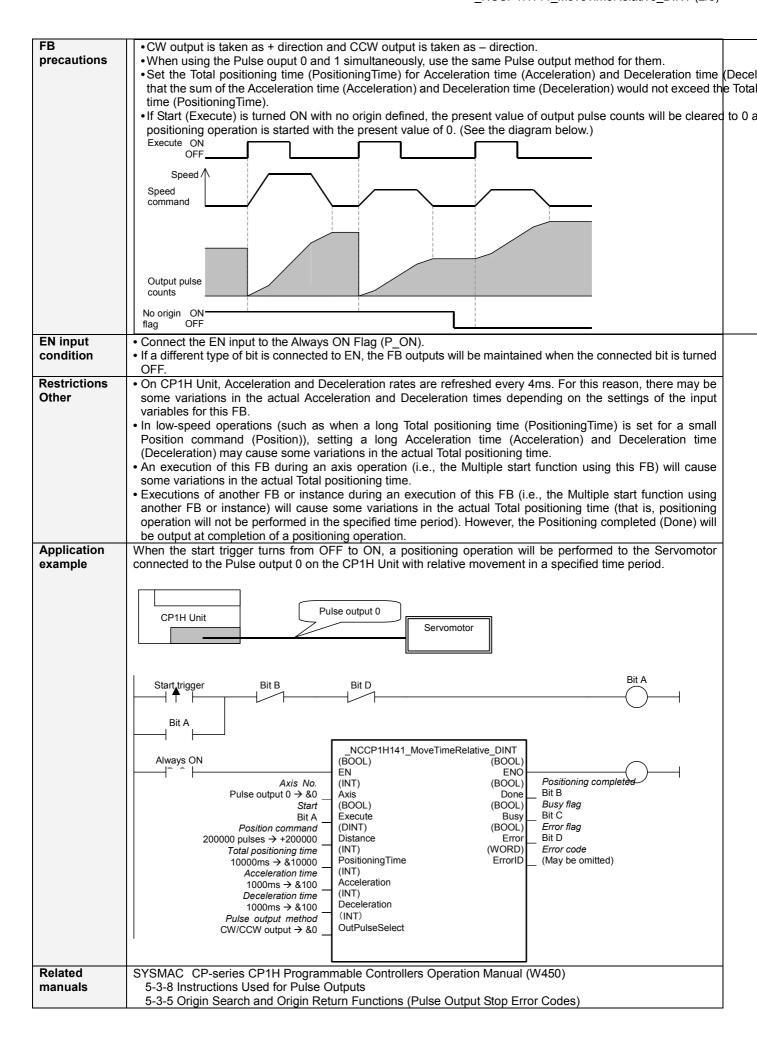
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■ Note

This document explains the function of the function block.







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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position	Distance	DINT	+0	-2,147,483,648	Specifies the relative travel distance.
command				to	Unit: Pulses
				+2,147,483,647	
Total positioning	PositioningTime	INT	&1	&1 to &65535	Specify a positioning time.
time					Unit: ms
Acceleration time	Acceleration	INT	&1	&1 to &65535	Specify an acceleration time.
					Unit: ms
Deceleration time	Deceleration	INT	&1	&1 to &65535	Specify a deceleration 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 completed	Done	BOOL		1 (ON) indicates that positioning is completed.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in pregress.
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
				Axis. No. is out of the range or the positioning is not
				performed in the specified time, #0000 will be output.

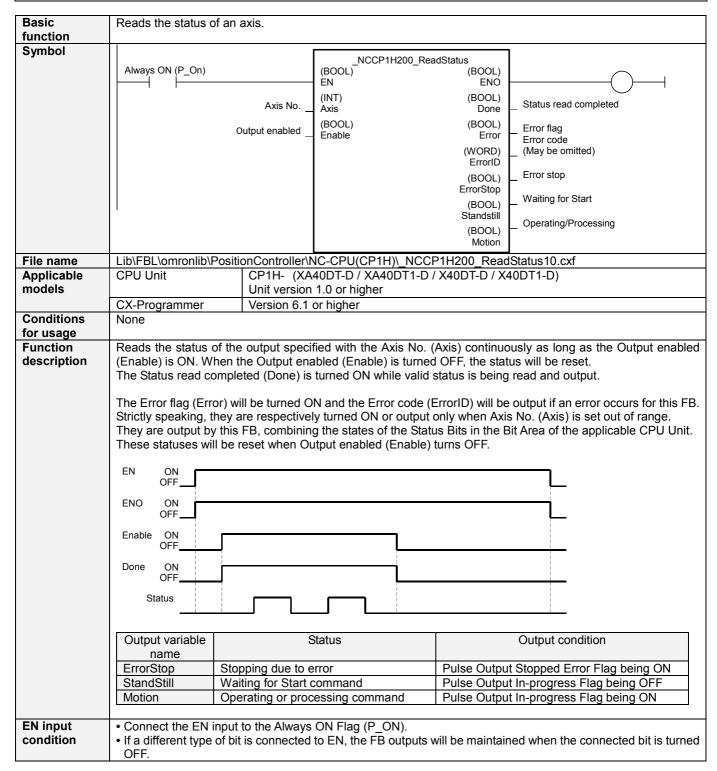
■ Revision History

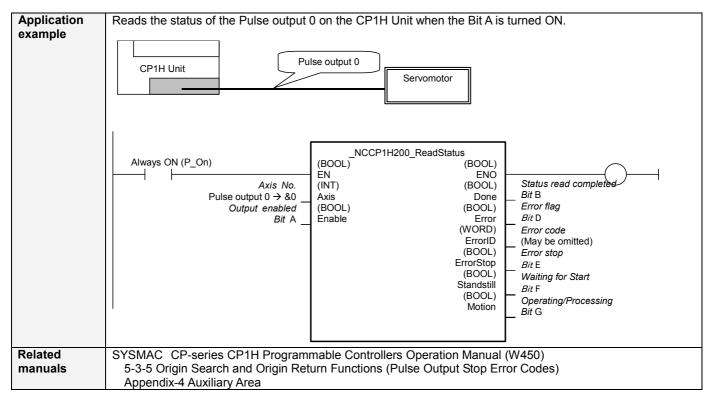
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■ Note

This document explains the function of the function block.







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 &3	,
Output enabled	Enable	BOOL	0(OFF)		1 (ON): Output enabled 0 (OFF): Output reset

Output Variables

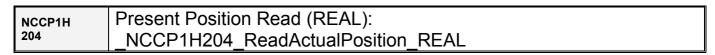
Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1(ON): FB operating normally
				0(OFF): FB not operating normally
Status read	Done	BOOL		1 (ON) indicates that valid status is being read and
completed				output.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
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 Unit No. or Axis. No. is out of the range, #0000
				will be output.
Error stop	ErrorStop	BOOL		1 (ON) indicates that the operation is being stopped
·				with an error.
Waiting for Start	Standstill	BOOL		1 (ON) indicates that the CPU Unit is waiting for a start
•				command.
Operating/Processing	Motion	BOOL		1 (ON) indicates that internal processing (for Pulse
				Output In-progress Flag, etc.) of the CPU Unit is in
				progress.

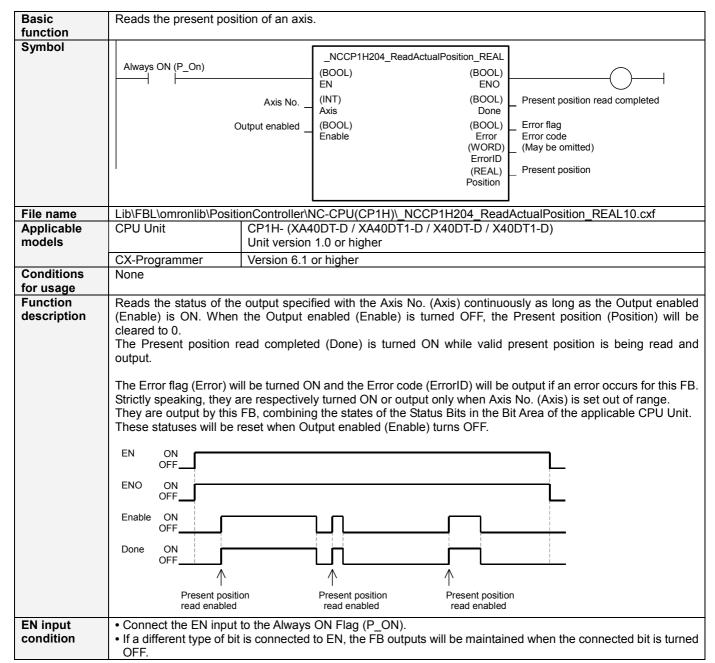
■ Revision History

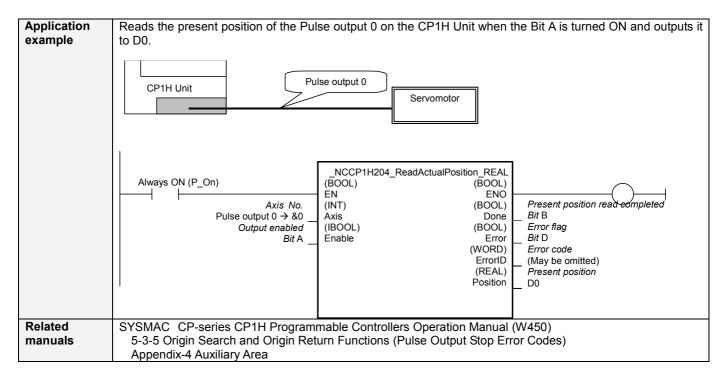
Version	Date	Contents
1.00	2005.9.	Original production

■ Note

This document explains the function of the function block.







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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Output enabled	Enable	BOOL	0(OFF)		1 (ON): Output enabled
					0 (OFF): Output reset

【OUTPUT】(出力変数)

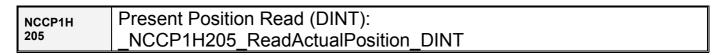
Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1(ON): FB operating normally 0(OFF): FB not operating normally
Present position read completed	Done	BOOL		Turns ON when present position read is completed normally.
Error flag	Error	BOOL		Turns ON when present position read is ended with an error.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output.
Present position	Position	REAL	-2.147484e+009 to +2.147484e+009	Outputs the present position of the specified axis.

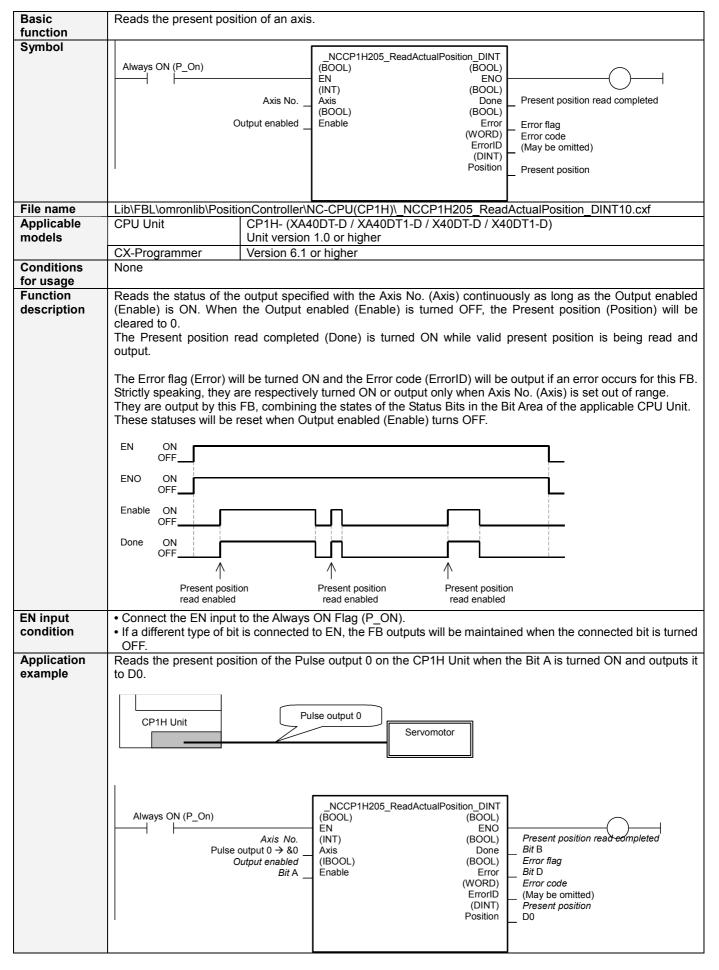
■ Revision History

Version Date		Contents	
1.00	2005.9.	Original production	

■ Note

This document explains the function of the function block.





Related	SYSMAC CP-series CP1H Programmable Controllers Operation Manual (W450)
manuals	5-3-5 Origin Search and Origin Return Functions (Pulse Output Stop Error Codes)
	Appendix-4 Auxiliary Area

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 &3	&0: Pulse output 0 &1: Pulse output 1 &2: Pulse output 2 &3: Pulse output 3
Output enabled	Enable	BOOL	0(OFF)		1 (ON): Output enabled 0 (OFF): Output reset

【OUTPUT】(出力変数)

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1(ON): FB operating normally
				0(OFF): FB not operating normally
Present position read completed	Done	BOOL		Turns ON when present position read is completed normally.
Error flag	Error	BOOL		Turns ON when present position read is ended with
				an error.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output.
Present position	Position	DINT	-2,147,483,648 to +2,147,483,647	Outputs the present position of the specified axis.

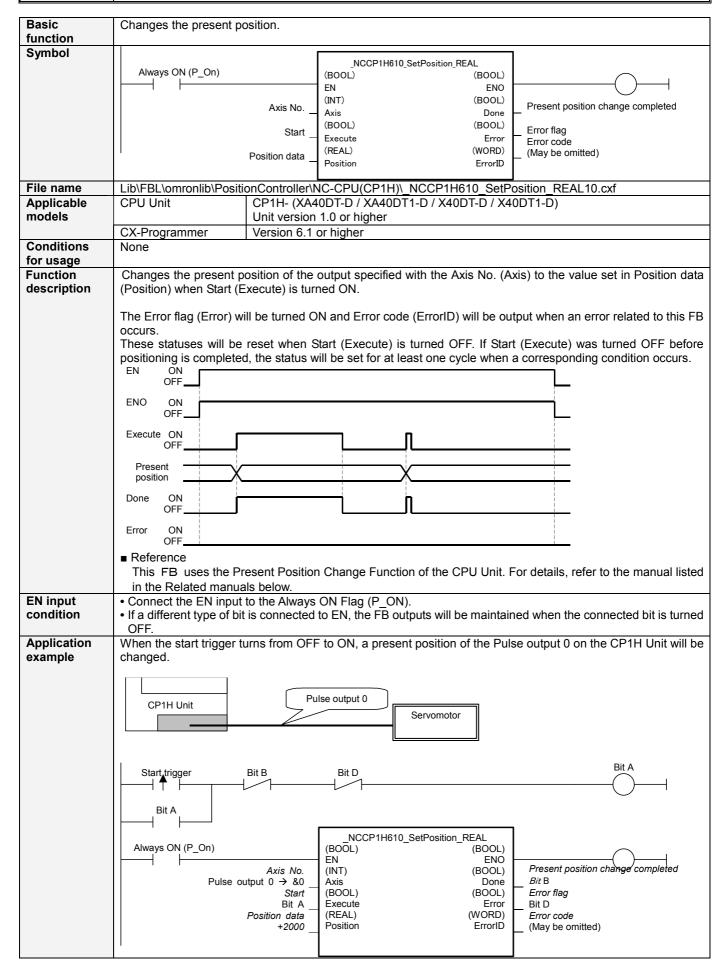
■ Revision History

Version	Date	Contents
1.00	2005.9.	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.

NCCP1H Present Position Change (REAL): _NCCP1H610_SetPosition_REAL



Related	SYSMAC CP-series CP1H Programmable Controllers Operation Manual (W450)
manuals	5-3-8 Instructions Used for Pulse Outputs
	5-3-5 Origin Search and Origin Return Functions (Pulse Output Stop Error Codes)

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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position data	Position	REAL	+0.0	-2.147483e+009	Specify the value to set the present
				to	position.
				+2.147483e+009	Unit: Pulses

Output Variables

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

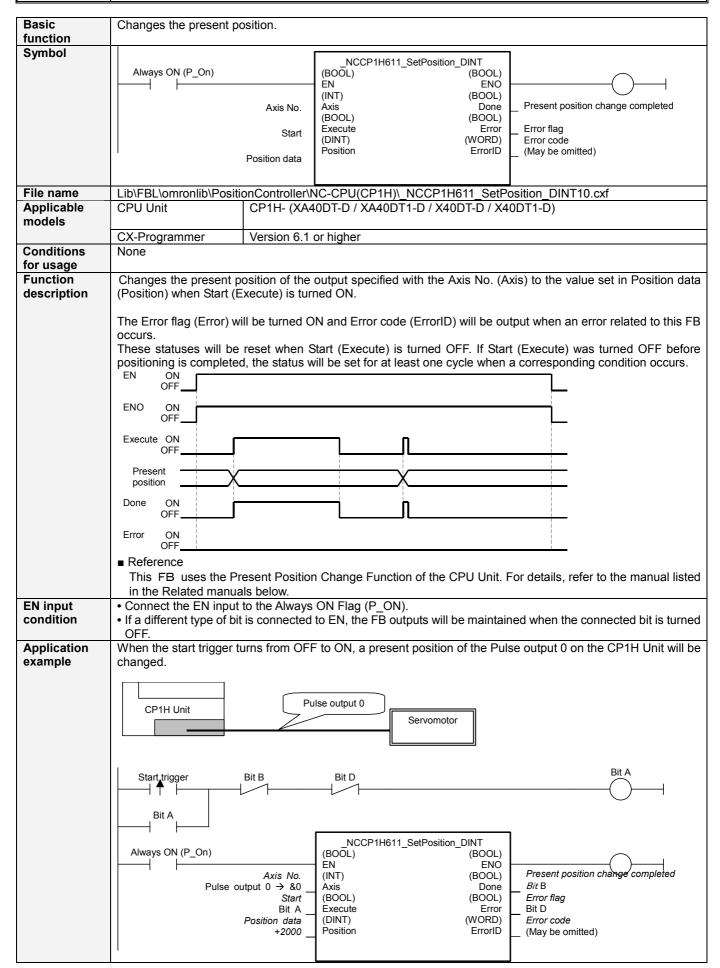
■ Revision History

Version	Date	Contents	
1.00	2005.9.	Original production	

■ Note

This document explains the function of the function block.

Present Position Change (DINT): _NCCP1H611_SetPosition_DINT



Related	SYSMAC CP-series CP1H Programmable Controllers Operation Manual (W450)				
manuals					
	5-3-5 Origin Search and Origin Return Functions (Pulse Output Stop Error Codes)				

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 &3	&0: Pulse output 0
					&1: Pulse output 1
					&2: Pulse output 2
					&3: Pulse output 3
Start	Execute	BOOL	0(OFF)		
Position data	Position	DINT	&0	-2,147,483,648	Specify the value to set the present position.
				to	Unit: Pulses
				+2,147,483,647	

Output Variables

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

■ Revision History

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This document explains the function of the function block.