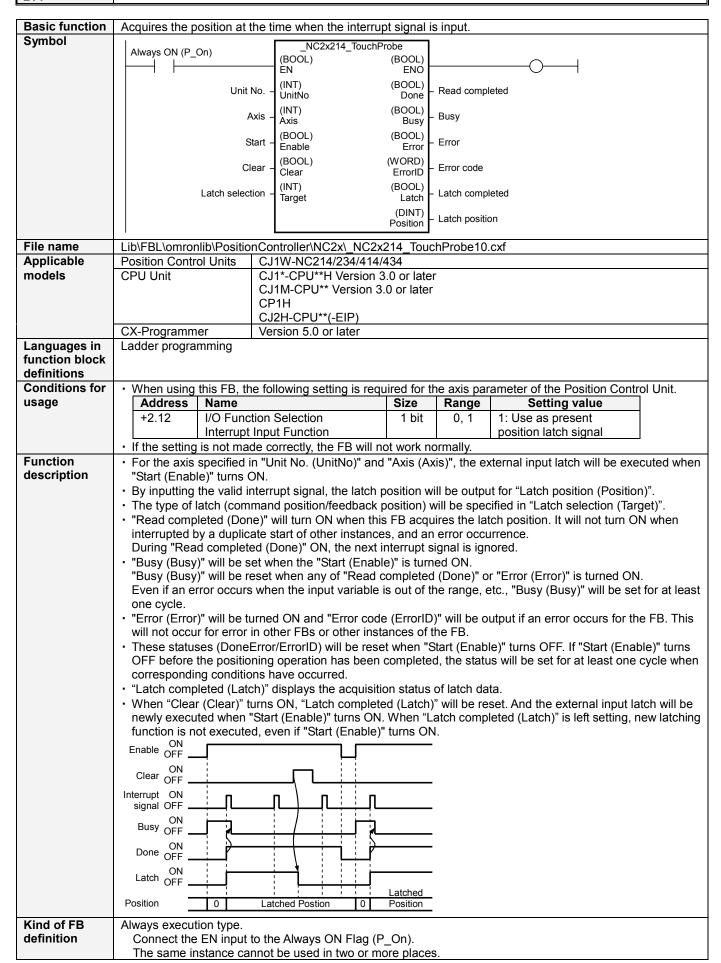
Present Position Latch _NC2x214_TouchProbe



EN input	Connect the EN input to t	Alwaya ON Flag (D. Op)				
condition			when the	connected bit turns OFF		
Restrictions	If another bit is connected to EN, the FB outputs will be held when the connected bit turns OFF. • This FB does not recognize the existence of the axis specified in "Unit No. (UnitNo)" and "Axis (Axis)". If					
Other	these input variables have not been set correctly, the FB may not work normally.					
	Axes to be used can be changed only when "Start (Enable)" turns ON. They cannot be changed when					
	"Clear (Clear)" turns ON.					
				a has been acquired. Turn ON "Clear		
		th completed (Latch)" has turned O				
		urned ON in "Start (Enable)" ON. If	"Clear (C	Clear)" is executed during "Start		
	(Enable)" OFF, PCU may					
	This FB changes the follow	wing Axis parameters.	0.	0.48		
	Address Name	- Property Design	Size	Setting value		
	Latch Targ	eeding Reference Position / et Position Selection	1 bit	0(OFF): Command position 1(ON): Feedback position		
		put Undetected Error Enable	1 bit	0(OFF)		
		osition Control Unit. Therefore, do r		ese bits ON or OFF. For the same		
		oits for coil outputs (OUT command	S).			
Application		st" for the bits used by this FB.	1-lf 1l-	Compositor (V svis) composited to		
example	the Position Control Unit of the		aten of the	e Servomotor (X axis) connected to		
cxample	the resident control of the ore	anit number o.				
	U	nit No.: 0				
	CPU NC	Servo motor				
	Servo motor Axis 1					
		Sample				
	Always ON (P On)	_NC2x214_TouchProbe				
		(BOOL) (BOOL) EN ENO				
	Unit No.		d completed	d		
	&0	UnitNo Done Bit C				
	Axis	(INT) (BOOL) Busy				
	&1 °	Axis Busy Bit D				
	Start Bit A	(BOOL) (BOOL) <i>Erro</i> Enable Error Bit E				
	Clear		r code			
	Bit B	Clear ErrorlD D0				
	Latch selection	` '	h completed	d		
	Command position -> &0	Target Latch Bit F (DINT) Latc	h position			
		Position D10				
Related	CJ-series Position Control U	nit Operation Manual (W477)				
manuals	9-7 Present Position Latch	Function				
	12-6 Error Code List					

■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	Enable	BOOL	0(OFF)		: External input latch start
					▼: External input latch interrupted
Clear	Mask	BOOL	0(OFF)		f : External input latch occurring status cleared
Latch	Target	INT	&0	&0, &1	Select the command position or feedback position for the
selection					latch.
					&0: Command position
					&1: Feedback position

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
Read completed	Done	BOOL		Turns ON when the external input latch operation is completed.
Busy	Busy	BOOL		Turns ON when FB is in the process.
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.
Latch completed	Latch	BOOL		1(ON): External input latch occurring
				0(OFF): External input latch acceptable
Latch position	Position	DINT		Outputs the acquired latch position.

■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.
Parameter setting error	#1100	Parameter transfer via the data transfer command has not been completed normally.	Check that the Position Control Unit status and parameter set values are within the range of the specifications.
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 input mask enable / Present position latch enable	#3206	"Interrupt input mask enable / Present position latch enable" 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

=03ca bita iiat				
Memory area	Name	Data type	Address	Note
Direct Operation Command	Interrupt input mask enable/	BOOL	B+00.06	
Memory Area	present position latch enable			
	Latch completed clear	BOOL	B+00.15	

■Version History

	,				
Version	Date	Contents			
1.00	2009.02.	Original production.			
1.01	2010.04	The problem is fixed, which causes the "IOWR Busy" warning when the "Feedback Counter Present			
		Value" or "External Encoder Axis Count Value" is written by using the IOWR instruction.			

■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.