NC2x 080	Error Reset _NC2x080_Reset

Basic function	Resets a unit error.
Symbol	
File name	Lib\FBL\omronlib\PositionController\NC2x_NC2x080_Reset10.cxf
Applicable models	Position Control Units — CJ1W-NC214/234/414/434
	CPU Unit — CJ1*-CPU**H Version 3.0 or later CJ1M-CPU** Version 3.0 or later CP1H CJ2H-CPU**(-EIP)
	CX-Programmer — Version 5.0 or later
Languages in function block definitions	Ladder programming
Conditions for usage	None.
Function description	・ For the unit specified in "Unit No. (UnitNo)", its unit axes and tasks, the Error reset operation and the Warning reset operation are started when "Start (Execute)" turns ON. ・ "Reset completed (Done)" will turn ON when resetting the error has been completed and commands can be accepted. ・ "Busy (Busy)" will be set when the "Start (Execute)" is turned ON. "Busy (Busy)" will be reset when any of "Reset completed (Done)" or "Error (Error)" is turned ON. Even if an error occurs when the input variable is out of the range, etc., "Busy (Busy)" will be set for at least one cycle. ・ "Error (Error)" will be turned ON and "Error code (ErrorID)" will be output if an error occurs for the FB. This will not occur for error in other FBs or other instances of the FB. ・ These statuses (Done/Error/ErrorID) will be reset when "Start (Execute)" turns OFF. If "Start (Execute)" turns OFF before the positioning operation has been completed, the status will be set for at least one cycle when corresponding conditions have occurred.
Kind of FB definition	Always execution type. 　Connect the EN input to the Always ON Flag (P_On). 　The same instance cannot be used in two or more places.
EN input condition	・ Connect the EN input to the Always ON Flag (P_On). If another bit is connected to EN, the FB outputs will be held when the connected bit turns OFF.
Restrictions Other	・ This FB does not recognize the existence of the axis specified in "Unit No. (UnitNo)". If this input variable has not been set correctly, the FB may not work normally. ・ When performing an alarm reset for the Servo Drive in conjunction with an error reset, a setting is required for the axis parameter.

Address	Name	Size	Range	Setting value
+2.01	I/O Function Selection Drive Alarm Reset Output Function	1 bit	0, 1	1: Use as driver alarm reset output

・ This FB uses bits of the Position Control Unit. Therefore, do not turn these bits ON or OFF. For the same reason, do not use these bits for coil outputs (OUT commands).
Refer to the "■Used bits list" for the bits used by this FB.

Application example	Turning OFF bit A and then ON will reset an error occurred in the Position Control Unit of unit number 0.

Unit No.: 0

CPU | NC

Servo motor
Axis 1

Sample
_NC2x080_Reset

	(BOOL) EN		(BOOL) ENO	
Always ON (P_On)				
Unit No. &0	(INT) UnitNo		(BOOL) Done	Reset completed Bit B
Start Bit A	(BOOL) Execute		(BOOL) Busy	Busy Bit C
			(BOOL) Error	Error Bit D
			(WORD) ErrorID	Error code D0

Related manuals	CJ-series Position Control Unit Operation Manual (W477) 12-8 Error Reset

■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.
Start	Execute	BOOL	0(OFF)	↑ : Starts the reset.	

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
Reset completed	Done	BOOL		Turns ON when the reset operation has been 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.

■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.
Overall error	#1000	An error of any kind has occurred in the unit.	Check the error code of the unit. Identify the error cause from the Operation Manual of the Position Control Unit.
Error reset	#3000	"Error reset" of the PCU Control Output 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.
Warning reset	#3001	"Warning reset" of the PCU Control Output Memory area has been operated by the outside of the FB.	

■Used bits list

Memory area	Name	Data type	Address	Note
PCU Control Output Memory area	Error reset	BOOL	n+00.00	
	Warning reset	BOOL	n+00.01	

■Version History

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.