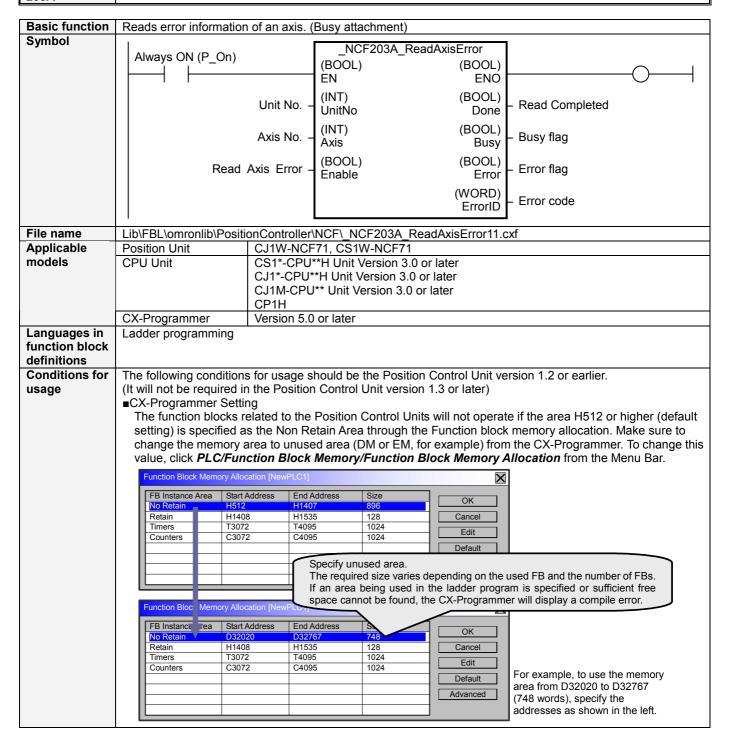
NCF 203A Read Axis Error _NCF203A_ReadAxisError



Function The Busy Output is added to the NCF203 ReadAxisError in this FB. description Axis error information for the axis of the specified Unit No. (UnitNo) and Axis No. (Axis) is read when the Read Axis Error (Enable) is turned ON. The Read Completed (Done) turns ON when there is no error on the Unit. The Busy flag (Busy) will be set when the Read Axis Error (Enable) is turned ON. The Busy flag (Busy) will be reset when the Read Completed (Done) or Error flag (Error) is turned ON. If the error is occurred when the input variables is out of the range etc., the Busy flag (Busy) will be set for at least one cycle. The Error fag (Error) and the Error code (ErrorID) will show the status of errors for the Position Control Unit axis. The Error flag (Error) will also be turned ON when the unit number or axis number is not in range. These statuses (Done/Error/ErrorID) will be reset when the Read Axis Error (Enable) turns OFF. ON EN OFF ON ENO OFF Enable OFF ON Busy OFF ON Done OFF ON Error OFF Read axis ON error OFF Error flag ON (b+00.12) OFF Kind of FB Always execution type. definition Connect the EN input to the Always ON Flag (P On). The same instance cannot be used in two or more places **EN** input •Connect the EN input to the Always ON Flag (P On). condition If another bit is connected to EN, the FB outputs will be held when the connected bit turns OFF. Restrictions •The Error Flag (Error) and Error Code (ErrorID) for this FB reflect the status of the Operating Input Memory Other Area in the Position Control Unit without alteration. ·This FB uses Unit Error Reset, Write Data. Read Data and Save Data Bits of the Position Control Unit (see Note). Therefore, do not turn these bits ON or OFF between the period from the rising edge of EN to the rising edge of ENO. For the same reason, do not use these bits for coil outputs (OUT commands). The output variable of FB may not change even if EN is turned ON. In that case, check if any of Unit Error Reset, Write Data, Read Data and Save Data Bit is left ON. For calculation of bit addresses, these bits are referenced in this FB in the first execution of each instance, and when changing "Unit No. (UnitNo)", "Axis No. (Axis)" of the input variable and set "Output Enable Bit (Enable)". When turning the Bit A ON from OFF, the axis error information of axis 1 of the Servomotor connected to the **Application** Position Control Unit with unit number 0 is read and stored in D0. example UnitNo.:0 CPU NCF Servomotor Axis 1 Sample NCF203A ReadAxisError Always ON (P On) (BOOL) (BOOL) ΕN **ENO** (BOOL) Unit No. (INT) Read Completed &0 UnitNo Done Bit B (BOOL) (INT) Axis No. Busy flag Bit C &1 Axis Busy Read Axis Error (BOOL) (BOOL) Error flag Bit A Enable Bit D Error (WORD) Error code **ErrorID** Related Position Control Units OPERATION MANUAL (W426-E1) manuals 12-4 Error Codes

■ 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 &15	Specify the unit number.
Axis No.	Axis	INT	&1	&1 to &16	Specify the axis number.
Read Axis Error	Enable	BOOL	0(OFF)		f : Starts reading error

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB operating normally
				0 (OFF): FB not operating normally
				•FB not started
				Input variable out of the range
				•FB ended with error
				·Common Parameters could not be read
Read Completed	Done	BOOL		1 (ON) indicates that there is no error on the specified axis.
Busy flag	Busy	BOOL		1 (ON) indicates that the FB is in progress.
Error flag	Error	BOOL		Turns ON when an error has occurred in the specified axis.
Error code	ErrorID	WORD		Returns the error code when an error has occurred in the FB.
				Refer to the <i>Related Manuals</i> for details on errors.
				A code of #0000 will be returned if any of the following
				conditions is satisfied.
				Input variable is out of range.
				•The common parameters of the Position Control Units are
				out of range.
				 Not established communications with a specified axis.

■ Version History

Version	Date	Contents		
1.13	2006.01.	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.