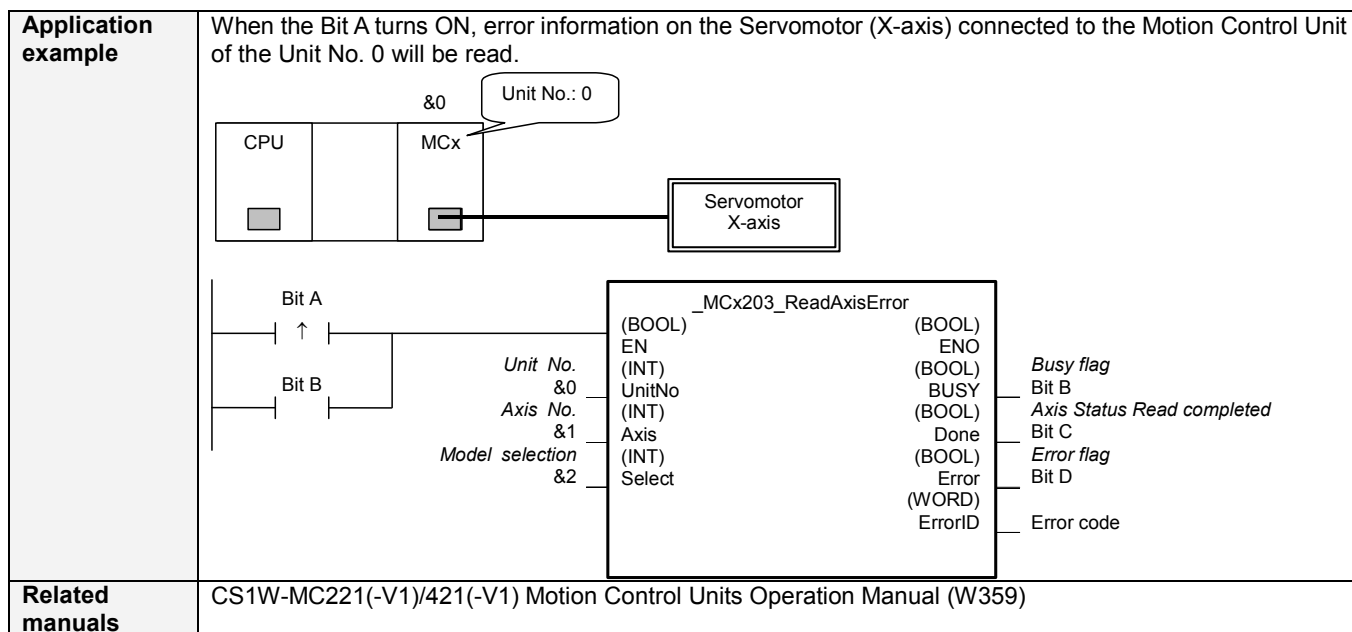


<b>MCx 203</b>	<b>Read Axis Error: _MCx203_ReadAxisError</b>
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<b>Basic function</b>	Reads axis error information.						
<b>Symbol</b>							
<b>File name</b>	Lib\FBL\omronlib\ PositionController \MCx\ MCx203_ReadAxisError10.cxf						
<b>Applicable models</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Motion Control Unit</td> <td>CS1W-MC221(-V1)/421(-V1)</td> </tr> <tr> <td>CPU Unit</td> <td>                     CS1*-CPU**H Unit version 3.0 or higher                      CJ1*-CPU**H Unit version 3.0 or higher                      CJ1M-CPU** Unit version 3.0 or higher                      CP1H                 </td> </tr> <tr> <td>CX-Programmer</td> <td>Version 5.0 or higher</td> </tr> </table>	Motion Control Unit	CS1W-MC221(-V1)/421(-V1)	CPU Unit	CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H	CX-Programmer	Version 5.0 or higher
Motion Control Unit	CS1W-MC221(-V1)/421(-V1)						
CPU Unit	CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H						
CX-Programmer	Version 5.0 or higher						
<b>Conditions for usage</b>	None						
<b>Function description</b>	<p>Error information occurring on the axis specified with Unit No. (UnitNo) and Axis No. (Axis) is read. When the Start trigger turns ON, error information will be read and output. If Axis Error Read ends with an error, the error code will be output from Error code (ErrorID).</p> <p>■ Reference This FB executes Axis Error Read using the IORD instruction for the applicable Motion Control Unit. For details, refer to the manuals listed in Related manuals below.</p>						
<b>FB precautions</b>	<ul style="list-style-type: none"> <li>This FB is processed over multiple cycles. The Busy flag (BUSY) can be used to check whether or not the FB is being processed.</li> <li>The Axis Error Read completed (Done) or Error flag (Error) will be turned ON only for one cycle after processing is completed. Use either flag to detect the end of FB processing.</li> </ul> <p>■ Timing Chart</p> <p style="text-align: center;">↑ FB processing completed at this point.</p>						
<b>EN input condition</b>	<ul style="list-style-type: none"> <li>As shown above, connect EN to an OR circuit between an upwardly differentiated condition for the Start trigger and the Busy flag (BUSY) output from this FB.</li> </ul>						
<b>Restriction Other</b>	<ul style="list-style-type: none"> <li>Always use an upwardly differentiated condition for EN.</li> <li>If any of the Input Variables is set out of range, the output from ENO will turn OFF and the FB will not be processed.</li> <li>This FB can not reflect error information cyclically.</li> </ul>						
<b>Output Variable</b>	<ul style="list-style-type: none"> <li>This FB requires several cycles to process. Always connect an OR circuit including the Busy flag (BUSY) output to ensure that it will be processed to completion.</li> <li>Do not turn ON or OFF the Busy flag (BUSY) output from outside of this FB.</li> </ul>						



■ 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
Unit No.	UnitNo	INT	&0	&0 to &93 &0 to &91	Depends on the model of Motion Control Units. &0 to &95 (MC221) &0 to &91 (MC421)
Axis No.	Axis	INT	&1	&1 to &4	&1: X-axis &2: Y-axis &3: Z-axis &4: U-axis
Model selection	Select	INT	&4	&2, &4	&2: 2-axis Unit (MC221) &4: 4-axis Unit (MC421)

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB operating normally 0 (OFF): FB not operating normally or FB ended with an error
Busy flag	BUSY	BOOL		The output from this Output Variable will automatically turns OFF after completion of Axis Error Read.
Axis Error Read completed	Done	BOOL		This turns ON only for 1 cycle when the FB ends its processing normally.
Error flag	Error	BOOL		This turns ON only for 1 cycle when the FB ends with an error.
Error code	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the manual listed in the Related manuals above. When Unit No. or Axis No. is out of the range, #0000 will be output.

Version History

Version	Date	Contents
1.00	2005.4	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.