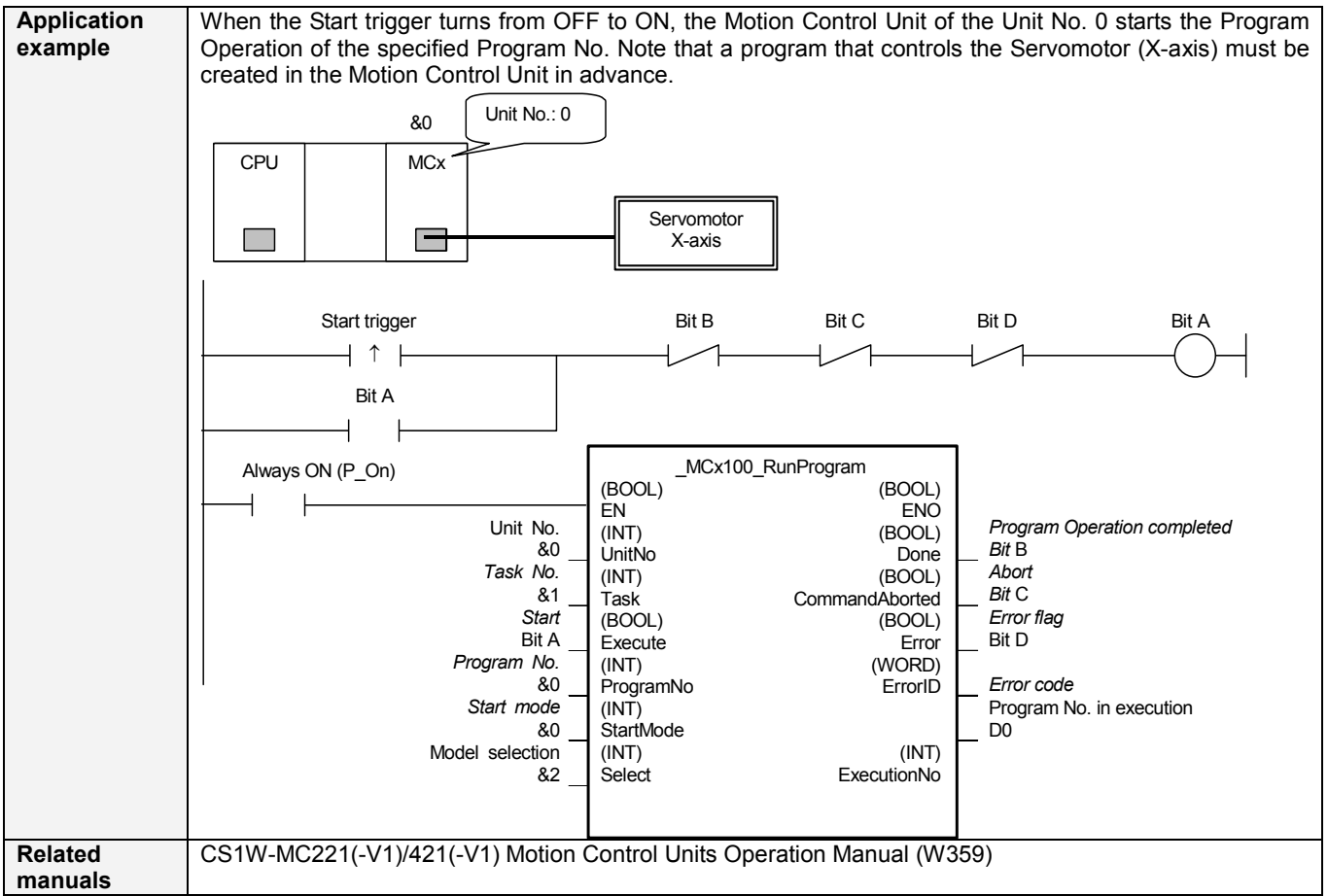


MCx 100	Run Program: _MCx100_RunProgram	
Basic function	Executes program (memory) operations.	
Symbol		
File name	Lib\FBL\omronlib\ PositionController \MCx\ MCx100_RunProgram10.cxf	
Applicable models	Motion Control Unit CPU Unit CX-Programmer	CS1W-MC221(-V1)/421(-V1) CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H Version 5.0 or higher
Conditions for usage	None	
Function description	<p>When Start (Execute) turns ON, a Program Operation specified with Program No. (ProgramNo) will be executed on the task specified with Unit No. (UnitNo) and Task No. (TaskNo).</p> <p>The Program Operation completed (Done) will turn ON when a Program Operation by this FB is completed. The Abort (CommandAborted) will turn ON instead when a Program Operation is interrupted by a pause, etc.</p> <p>The Error Flag (Error) will be turned ON and the Error Code (Error code) will be output if an error occurs for this FB. These statuses are not output for errors of other FBs or instances. These statuses will be reset when Start (Execute) turns OFF. If Start (Execute) turns OFF before completion of the Program Operation, the status will be set for at least one cycle when a corresponding condition occurs.</p>	
FB precautions	This FB can be used only in Manual Mode. It cannot be used in Automatic Mode. For details, refer to the manuals listed in Related manuals below.	
EN input condition	<ul style="list-style-type: none"> • 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	This FB uses bits in the Bit Areas of the applicable Motion Control Units listed above. Do not use these bits as Output Bits connected directly to the right bus bar in the ladder programs.	



■ 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)
Task No.	Task	INT	&1	&1 to &4	
Start	Execute	BOOL	0(OFF)		⏏ : Starts Program Operation
Program No.	ProgramNo	INT	&0	&0 to &999	Specify a Program No.
Start mode	StartMode	INT	&4	&0 to &1	&0: Starts from the top of a program. &1: Starts from anywhere of the program. (Use only when the program was paused.)
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
Program Operation completed	Done	BOOL		1 (ON) indicates that a Program Operation is completed.
Abort	CommandAborted	BOOL		1(ON): Aborted •Command bit turns OFF. •Stopped with pause bit.
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 output. For details of the errors, refer to the manual listed in the Related manuals above. When Unit No. or Task No. is out of the range, #0000 will be output.
Program No. in execution	ExecutionNo	INT		The Program No. of a program being executed is output. It is cleared to 0 when a program execution is completed. Note that it is not cleared when a program execution is interrupted by an error or cancel.

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.