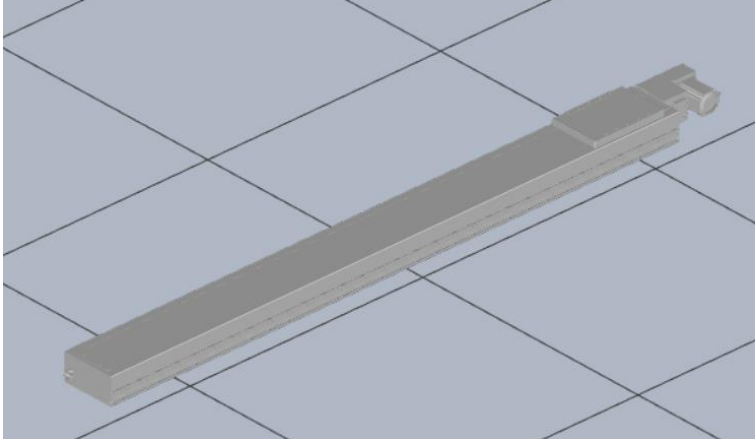
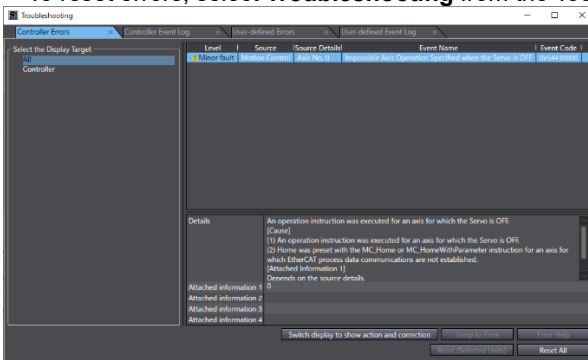
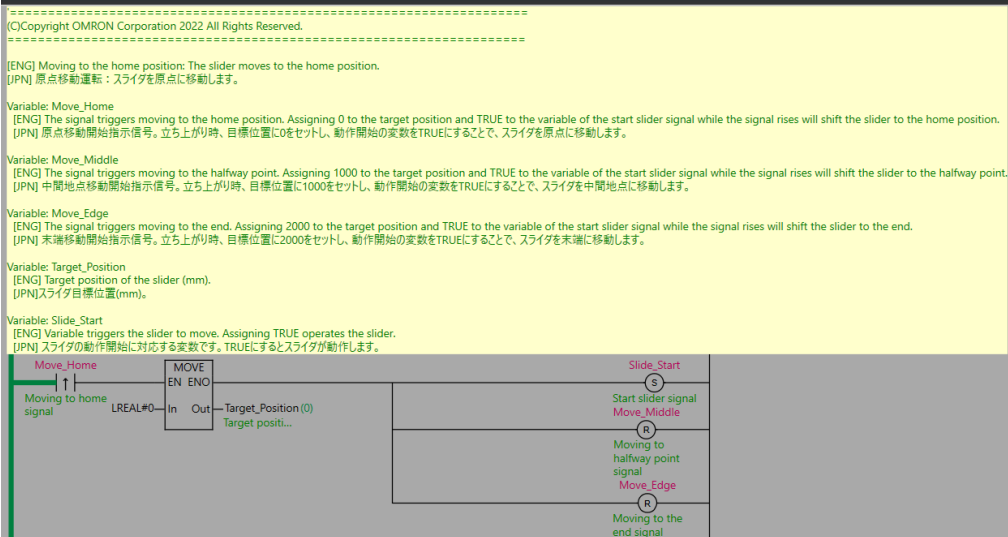


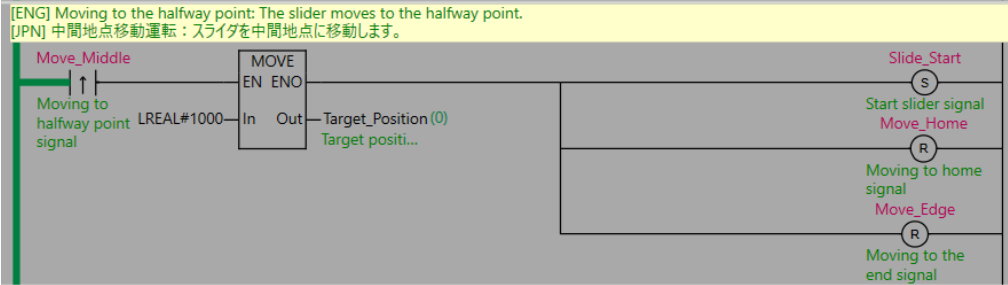
3D Simulation Sample Program No.01	Electric actuator	
Basic function	Makes the device to be ready for operation, and performs homing, jog, and demonstration.	
3D image	 <p>CAD data: CKD Corporation ECV-22-40200-RP8XNNNN The CAD data was edited by OMRON. Refer to the Sysmac Studio 3D Simulation Function Operation Manual (W618-E1) for the editing procedures.</p>	
File name	CKD_ECV_22_40200_RP8XNNNN_Slider.smc2	
Applicable model	Sysmac Studio (64-bit version)	SYSMAC-SE2xxx Ver.1.40 or higher
	Sysmac Studio 3D Simulation Option	SYSMAC-SA4xxL-64
Used language	Ladder programming	
Used materials and equipment	Virtual axis is used as the motor component in this simulation.	
Function description	<ul style="list-style-type: none"> <li>• When the Move_Home variable (Boolean) rises, the slider moves to the home position.</li> <li>• When the Move_Middle variable (Boolean) rises, the slider moves to the halfway position.</li> <li>• When the Move_Edge variable (Boolean) rises, the slider moves to the end.</li> <li>• When the Move_Stop variable (Boolean) rises, the slider stops.</li> </ul>	
Mechanical component types provided on the Sysmac Studio	Single Axis Position Control	
Precaution for use	<ul style="list-style-type: none"> <li>• This sample program is specifically prepared for 3D simulation. Do not use this program in actual machine operation.</li> <li>• CKD Corporation does not sell motor with this actuator, and also does not guarantee quality, accuracy, functionality, safety or reliability as the combination of the actuator and motor in this example.</li> </ul>	
Restrictions and others	<ul style="list-style-type: none"> <li>• Error processing is not included in the sample program. To reset errors, select <b>Troubleshooting</b> from the Tools Menu, then click the <b>Reset All</b> button.</li> </ul> 	

Application example

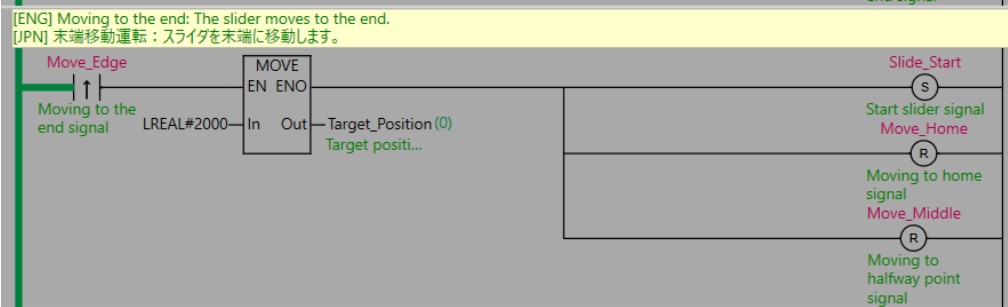
1. Moving to home signal: Shifts the slider to the home position.



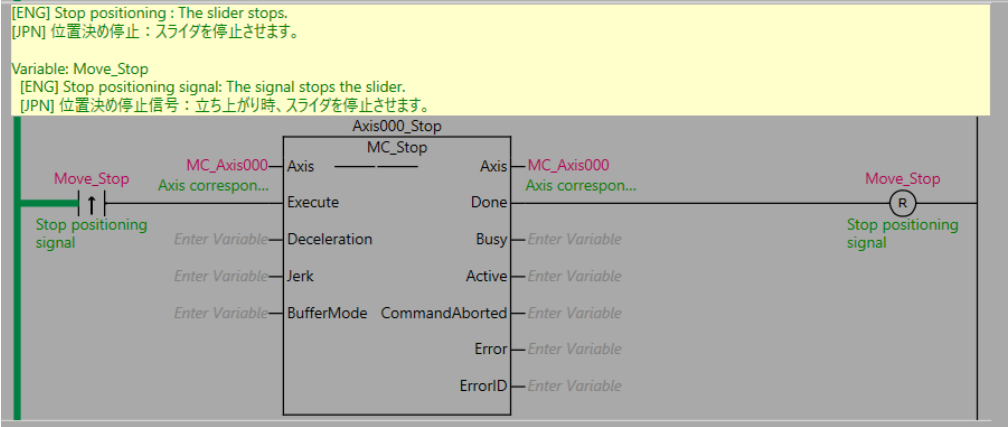
2. Moving to halfway point signal: Shifts the slider to the halfway point.



3. Moving to the end signal: Shifts the slider to the end.



4. Stop positioning signal: Stops the slider.



(Additional information)  
To confirm 3D operation, select **3D Visualizer** from the View menu. You can confirm the operation on the 3D Visualizer.

Related manuals

Sysmac Studio Version 1 Operation Manual (W504-E1)  
Sysmac Studio 3D Simulation Function Operation Manual (W618-E1)

## ■ Variable Tables

### Input Variables

Meaning	Name	Data type	Default	Range	Description
Moving to home signal	Move_Home	BOOL		TRUE or FALSE	The signal triggers moving to the home position. Assigning 0 to the target position and TRUE to the variable of the start slider signal while the signal rises will shift the slider to the home position.
Moving to halfway point signal	Move_Middle	BOOL		TRUE or FALSE	The signal triggers moving to the halfway point. Assigning 1000 to the target position and TRUE to the variable of the start slider signal while the signal rises will shift the slider to the halfway point.
Moving to the end signal	Move_Edge	BOOL		TRUE or FALSE	The signal triggers moving to the end. Assigning 2000 to the target position and TRUE to the variable of the start slider signal while the signal rises will shift the slider to the end.
Stop positioning signal	Move_Stop	BOOL		TRUE or FALSE	The signal stops the slider.

### Output Variables

Meaning	Name	Data type	Range	Description

## ■ Version History

Version	Date	Contents
1.00	March 2022	Original production.

## ■ Note

This document explains the function of the sample programs specifically prepared for 3D simulation. 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 product

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