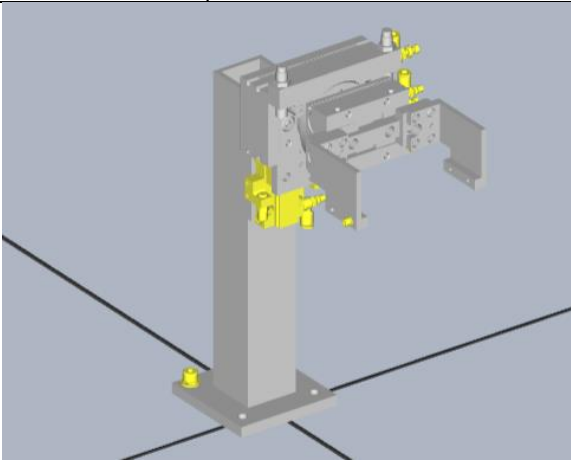
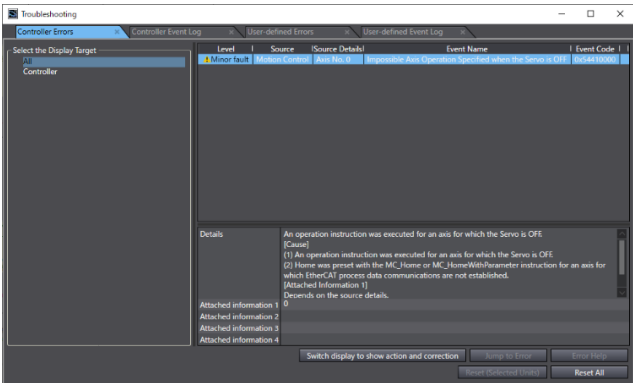
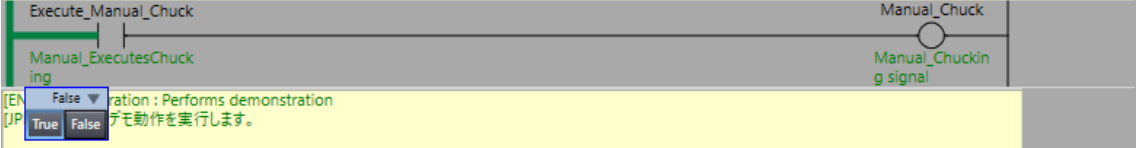
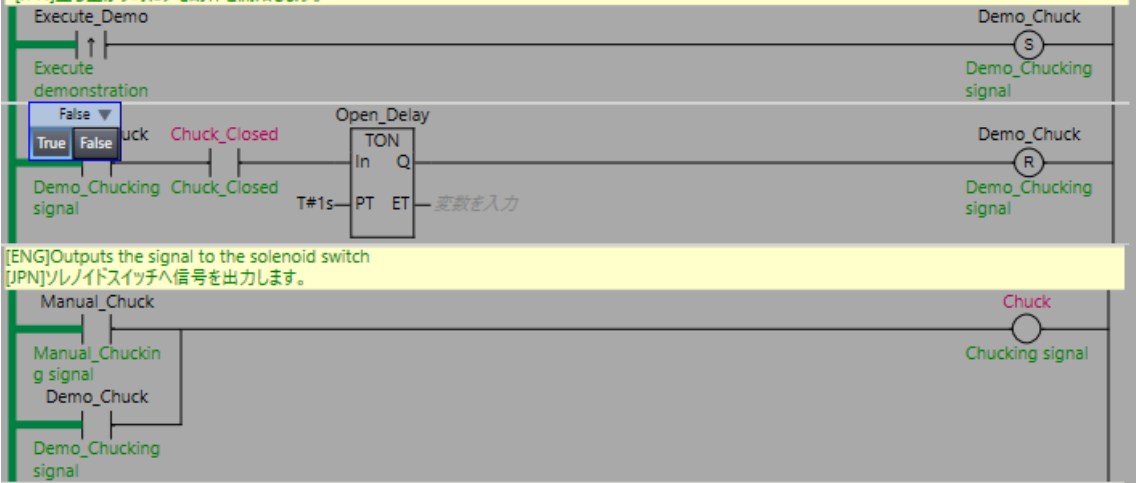
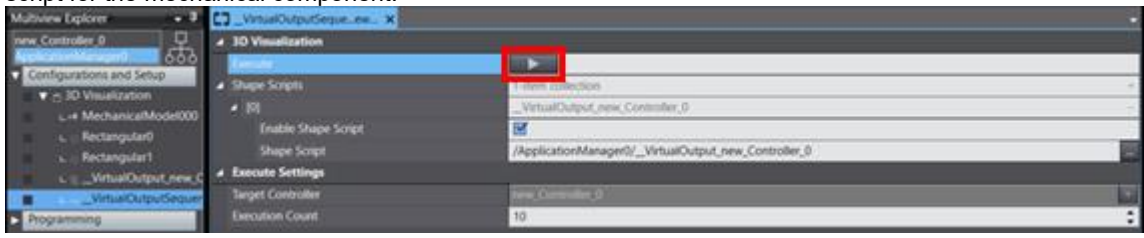


3D Simulation Sample Program No.23		Gripper single solenoid mechanism	
Basic function		Performs manual operation and demonstration.	
3D image		<div></div> <p>CAD data: MISUMI Corporation inCAD Library No.000020 Rotating Gripper Unit The CAD data was edited by OMRON. Refer to the Sysmac Studio 3D Simulation Function Operation Manual (W618-E1) for the editing procedures.</p>	
File name		3DSimulationSample_23_Gripper_single_solenoid_mechanism_V1_00.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		-	
Function description		<ul style="list-style-type: none">When the Execute_Manual_Chuck variable (BOOL) changes to TRUE, the chuck moves to the close position. When it changes to FALSE, the chuck moves to the open position.When the Execute_Demo variable (BOOL) changes to TRUE, a demonstration is performed.	
Mechanical component types provided on the Sysmac Studio		Robot tool (Parallel switching 2-finger type chuck/single solenoid type)	
Precaution for use		<ul style="list-style-type: none">This sample program is specifically prepared for 3D simulation. Do not use this program in actual machine operation.MISUMI Corporation may not offer all parts in each application design. Available parts can only be purchased separately not as a unit shown in each application design. MISUMI Corporation does not guarantee quality, accuracy, functionality, safety or reliability for the combination of the parts in each application example.	
Restrictions and others		<ul style="list-style-type: none">Error processing is not included in the sample program. To reset errors, select Troubleshooting from the Tools Menu, then click the Reset All button.	
<div></div>			

<p>Application example</p>	<div><div><p>1. Turns the solenoid switch ON or OFF manually</p><p>[ENG]Manual Operation : Turns the solenoid switch ON or OFF manually [JPN]手動運転 : ソレノイドスイッチを手動操作でON/OFFします。</p><p>Variable: Execute_Manual_Chuck [ENG]When the value of this variable changes to TRUE, the chuck moves to the close position. When it changes to FALSE, the chuck moves to the open position. [JPN]TRUEになると閉位置へ移動します。FALSEになると開位置へ移動します。</p></div><div><p>2. Performs demonstration</p><p>[ENG]Demonstration : Performs demonstration [JPN]デモ動作 : デモ動作を実行します。</p><p>Variable: Execute_Demo [ENG]A demonstration is performed when the value of this variable changes to TRUE. [JPN]立ち上がり時にデモ動作を開始します。</p></div><div><p>(Additional information)</p><p>To confirm 3D operation, select 3D Visualizer from the View menu. You can confirm the operation on the 3D Visualizer.</p><p>After performing a program simulation on the Sysmac Studio, execute the virtual output script for the mechanical component, in the following procedure.</p><p>Select ApplicationManager0 – Configuration and Setup – 3D Visualization – _VirtualOutputSequence_new_Controller_0 in the Multiview Explorer, and execute the virtual output script for the mechanical component.</p></div></div>
<p>Related manuals</p>	<p>Sysmac Studio Version 1 Operation Manual (W504-E1) Sysmac Studio 3D Simulation Function Operation Manual (W618-E1)</p>

■ Variable Tables

Input Variables

Meaning	Name	Data type	Default	Range	Description
Manual Operation	Execute_Manual_Chuck	BOOL		TRUE or FALSE	When the value of this variable changes to TRUE, the chuck moves to the close position. When it changes to FALSE, the chuck moves to the open position.
Demonstration	Execute_Demo	BOOL		TRUE or FALSE	A demonstration is performed when the value of this variable changes to TRUE.

Output Variables

Meaning	Name	Data type	Range	Description
Solenoid Switch Output	Chuck	BOOL	TRUE or FALSE	TRUE while a signal is output to the solenoid switch.

■ Version History

Version	Date	Contents
1.00	March 2021	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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