Allen-Bradley by ROCKWELL AUTOMATION

Release Notes

The Safety Device Library is a tested, documented, and life cycle managed object library. The Device Library provides pre-configured status and diagnostic faceplates and AOI sets for Rockwell Automation® safety instructions and GuardLink® devices. HMI faceplates are provided for FactoryTalk View ME, FactoryTalk® View SE, FactoryTalk® Optix and Studio 5000 View Designer®. Use with Studio 5000® Application Code Manager for best results.
Version 1.07.00 (released 9/2025)

Catalog Number Safety Device Library

These release notes describe version information for Safety Device Library, version 1.07.00 (released 9/2025).

Requirements

This release has the following requirements.

Safety Device Library Compatible Hardware

Requirement First Identified as of Software Version v1.07

- 2800s OptixPanel Standard v4.0.2.123 or later
  - Note: It is recommended to use a minimum display size of 10.1" W (1280x800) when using summary faceplates.
- PanelView™ 5500/5510/5310 with v5 or later firmware
- PanelView™ Plus with v10 or later firmware
- Safe Monitoring instructions (raC_Dvc_SFX, raC_Dvc_SS1, raC_Dvc_SS2) Require:
- GuardLogix® 5580/Compact GuardLogix® 5380 controller with v30.001 or later firmware
- Compatible safety-class device with safe monitoring functions:
  - Kinetix 5700-ERS4
  - PowerFlex 755-S4
  - Armor Kinetix DSx-ERS5
- Safe Torque Off (raC_Dvc_STO) requires CIP safety STO drive
- GuardLogix®5570/5580 or Compact GuardLogix®5370/5380controllerwith v30.001 or later firmware required for all other standard safety instructions
- Safety device e.g. e-stop, light curtain, or safety gate, safety mat, gate lock, etc
- 432ES-IG3 GuardLink® EtherNet/IP Interface v2.001.9 or v.3001 with series B 440x GuardLink 2.0 devices including:
  - 440G-MZ Ser. B: Guard locking switch, power-to-release, power-to-lock, standard or unique, escape release.
  - 400S-SF5D: 5-Pin Tap for use with 4- or 5-pin electronic safety input devices
  - 440S-SF8D: 8-Pin Tap for use with 8-pin electronic safety input devices, power-to-release
  - 440S-SLF8D: 8-Pin Tap for use with 8-pin electronic safety input devices, power-to-lock
  - 440S-MF5D: 5-Pin Tap for use with 4- or 5-pin electromechanical safety devices
  - 440S-MF8D: 8-Pin Tap for use with 8-pin electromechanical safety devices, power-to-release
  - 440S-MLF8D: 8-Pin Tap for use with 8-pin electromechanical safety devices, power-to-lock
  - 440S-PF5D: 5-Pin Passive tap for use with 5-pin GuardLink-enabled safety devices
  - 440S-PF5D4: 5-Pin Passive power tap for use with 5-pin GuardLink-enabled devices and additional power
  - 440R-ENETR Guardmaster Ethernet/IP Network Interface Series B v2.001 or later with the following GSR relays:
    - 440R-DG2R2T Guardmaster Guardlink Safety Relay DG
    - 440R-D22R2 Guardmaster Safety Relay DI - Dual Input Safety Relay
    - 440R-D22S2 Guardmaster Safety Relay DIS - Dual Input SS Safety Relay
    - 440R-EM4R2 Guardmaster Safety Relay EM - Safety Relay Expand Module
    - 440R-EM4R2D Guardmaster Safety Relay EMD - GSR Delayed Output Expansion Module
    - 440R-GL2S2P Guardmaster Safety Relay GLP - Guardlocking Proximity Inputs
    - 440R-GL2S2T Guardmaster Safety Relay GLT - Guard locking safety relay with Time Delay
    - 440R-S12R2 Guardmaster Safety Relay SI - Single Input Safety Relay
- Safety IO Modules; detailed compatibility chart below:

I/O Module	Module Definition - Input Status	Module Definition - Output Data/Muting Lamp	DCS	DCSTL	DCSTM	THRSe	TASM	TSSM	FSBM	SMAT	CROUT
1732ES-IB12XOB4	Pt. Status Muting	Safety	X	X	X	X					X
	Pt. Status - Muting - Test Output	Combined	X	X	X	X	X	X	X	X	X
1732ES-IB12XOBV2	Pt. Status Muting	Safety	X	X	X	X					X
	Pt. Status - Muting - Test Output	Combined	X	X	X	X	X	X	X	X	X
1732ES-IB16	Pt. Status - Muting -Test Output	Test	X	X	X	X	X	X	X	X	
1732ES-IB8XOB8	Pt. Status Muting	Safety	X	X	X	X					X
	Pt. Status - Muting - Test Output	Combined	X	X	X	X	X	X	X	X	X
1732ES-IB8XOBV4	Pt. Status Muting	Safety	X	X	X	X					X
	Pt. Status - Muting - Test Output	Combined	X	X	X	X	X	X	X	X	X
1734-IB8S	Pt. Status	None	X	X		X					
	Pt. Status-Power-Muting-Test	Test	X	X	X	X	X	X	X	X	
1734-OB8S	Pt. Status-Readback	Safety									X
1734-OBV2S	Pt. Status-Readback	Safety									X

1791ES-IB16	Pt. Status Muting	None	X	X		X					
	Pt. Status - Muting - Test Output	Test	X	X	X	X	X	X	X	X	
1791ES-IB8XOBV4	Pt. Status Muting	Safety	X	X	X	X					X
	Pt. Status - Muting - Test Output	Combined	X	X	X	X	X	X	X	X	X
1756-IB16S	-	-	X	X		X					
1756-OBV8S	-	-									X
5069-IB8S/K	-	None	X	X	X	X					
	-	Muting Lamp Points 02 and 03	X	X	X	X	X	X	X	X	
5069-OBV8S	-	-									X
5094-IB16S/XT	-	-	X	X	X	X					
5094-OB16S/XT	-	-									X
5094-OW4IS/XT	-	-									X

Features

This release includes the following system features.

Safety Device Library v1.07 Instructions

Feature First Identified as of Software Version 1.07

This updated release of the Safety Device Library includes the following safety device instructions and faceplates:

- raC_Dvc_440R_ENETR: 440R-ENETR Guardmaster® EtherNet/IP Network Interface
- raC_Dvc_DCA: Dual Channel Analog – paired with GuardLogix safety class instruction DCA
- raC_Dvc_DCAF: Dual Channel Analog Floating– paired with GuardLogix safety class instruction DCAF

These objects include associated Add-On Instructions for Studio 5000 Logix Designer®, HMI Faceplates for FactoryTalk® View ME/SE, FactoryTalk® Optix and Studio 5000 View Designer®, and Studio 5000® Application Code Manager objects.

New files included:

File	raC_Dvc_440R_ENETR	raC_Dvc_DCA	raC_Dvc_DCAF
Add-On Instruction	raC_Dvc_440R_ENETR_1.07_AOI.L5X	raC_Dvc_DCA_1.07_AOI.L5X	raC_Dvc_DCAF_1.07_AOI.L5X
Rung Import	raC_Dvc_440R_ENETR_1.07_DGConfig_RUNG.L5X aC_Dvc_440R_ENETR_1.07_NonDGConfig_RUNG.L5X	raC_Dvc_DCA_1.07_RUNG.L5X	raC_Dvc_DCAF_1.07_RUNG.L5X
FactoryTalk® View ME Faceplates	(raC-1_07-ME) raC_Dvc_440R_ENETR-Faceplate.gfx	(raC-1_07-ME) raC_Dvc_DCA-Faceplate.gfx (raC-1_07-ME) raC_Dvc_DCA-Trend.gfx	(raC-1_07-ME) raC_Dvc_DCAF-Faceplate.gfx (raC-1_07-ME) raC_Dvc_DCAF-Trend.gfx
FactoryTalk® View SE Faceplates	(raC-1_07-SE) raC_Dvc_440R_ENETR-Faceplate.gfx	(raC-1_07-SE) raC_Dvc_DCA-Faceplate.gfx (raC-1_07-SE) raC_Dvc_DCA-Trend.gfx	(raC-1_07-SE) raC_Dvc_DCAF-Faceplate.gfx (raC-1_07-SE) raC_Dvc_DCAF-Trend.gfx
Studio 5000 View Designer ® Project File	(raC-1_07-VD) raC_Dvc_Safety.vpd	(raC-1_07-VD) raC_Dvc_Safety.vpd	(raC-1_07-VD) raC_Dvc_Safety.vpd
FactoryTalk® Optix™ Library Object	raC_1_07_raC_Dvc_440R_ENETR_UI	raC_1_07_raC_Dvc_DCA_UI	raC_1_07_raC_Dvc_DCAF_UI
Studio 5000® Application Code Manager Asset Control File	(RA-LIB)_Device_Asset-Control_Safety_raC_Dvc_440R_ENETR_(1.7)	(RA-LIB)_Device_Asset-Control_Safety_raC_Dvc_DCA_(1.7)	(RA-LIB)_Device_Asset-Control_Safety_raC_Dvc_DCAF_(1.7)
Studio 5000® Application Code Manager Device File	(RA-LIB)_Device_Device_Safety_raC_LD_440R_ENETR_(1.7)	(RA-LIB)_Device_Device_Safety_raC_LD_DCA_(1.7)	(RA-LIB)_Device_Device_Safety_raC_LD_DCAF_(1.7)

Safety Device Library v1.07 Revised Diagnostic Icons

Feature First Identified as of Software Version 1.07

Revised diagnostic icons applied across the library to reduced unnecessary color and improve clarity. The following states have changes applied:

Status	Active Diagnostic Code	Safety Device Fault	Safety Demand Active	Ready
Detailed Description	There is an active diagnostic code. Usually also causes a safety demand and cannot get back into safe ready state until reset, but there are some unique cases (DCA) where this may be diagnostics with no safety demand.	There is an active fault related to device health. Usually also causes a safety demand.	Machine is called to stop due to safety demand. These can be independent of diagnostics or faults, for example an E-Stop is pushed.	No faults or safety demands, diagnostics, or safety demands present.
Current Indicators	Yellow LED	Square [X] Fault Icon and Yellow LED	Round (X) Icon and Yellow LED	Green LED

Proposed Indicators	Round (i) Information icon	Square [X] Fault Icon	Not ready black octagon icon	Banner displays "Ready"

Application Notes

This release has the following application notes.

Using Device Object Libraries with Application Code Manager

Application Notes First Identified as of Software Version 1.00

Use the Device Object Libraries with Studio 5000® Application Code Manager for best experience. Run the Setup.cmd file to register the library in Application Code Manager. Studio 5000 Application Code Manager can be used as a stand-alone application for bulk project code generation or as a Plug-In within Studio 5000 Logix Designer® to easily add a small number of library objects to an existing offline project.

- Safety Device Library v1.00 or greater
- Power Device Library v1.00 or greater
- IO Device Library v5.00 or greater

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