

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example

Project

Name:	Safety PLC example	Creation time:	2/12/2023 7:26:13 AM
Last change	2/16/2023 11:21:17 AM	Author:	Mahmoud muhamed
Last modified by:	PLC Traning	Version:	
Comment:			

Operating system

Name	Description
Operating system	Microsoft Windows 10 Pro
Version of the operating system	6.3.9600.0
Operating system service pack	
Version of the Internet Explorer	11.1411.18362.0
Computer name	DESKTOP-O4DT62G
User name	DESKTOP-O4DT62G\PLC Traning
Installation path of the TIA Portal	C:\Program Files\Siemens\Automation\Portal V16

Components

Name	Version	Release
TIA Portal Multiuser Server V14 - TIA Portal Multi-user Server Single SetupPackage V14.0 SP1 (MUSERV14)	V14.0 + SP1	V14.00.01.00_12.01.00.01
TIA Portal Project Server V16 - TIA Portal Project Server Single SetupPackage V16.0 (MUSERV16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V14 - SIMATIC S7-PLCSIM V14.0 + SP1 (S7_PLCSIM_V14)	V14.0 + SP1	V14.00.01.00_12.01.00.01
Siemens Totally Integrated Automation Portal V16 - SIMATIC S7-PLCSIM V16.0 (S7_PLCSIM_V16)	V16.0	V16.00.00.00_31.00.13.01
TIA Administrator - AWB Licensing Module V1.0 + SP2 (TIAADMIN)	V1.0 + SP2	V01.00.02.00_01.10.00.01
TIA Administrator - AWB Software Management V1.0 + SP2 (TIAADMIN)	V1.0 + SP2	V01.00.02.00_01.10.00.01
TIA Administrator - TIA UMC Agent Configurator Module V1.0 + SP2 (TIAADMIN)	V1.0 + SP2	V01.00.02.00_01.10.00.01
TIA Administrator - TIA Administrator V1.0 SP2 (TIAADMIN)	V1.0 + SP2	V01.00.02.00_01.10.00.01
Siemens Totally Integrated Automation Portal V16 - HM All Editions Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - HM NoBasic Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 0 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01
Siemens Totally Integrated Automation Portal V16 - Multiuser Client Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - Version Control Interface SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - STEP 7 Safety Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - SINAMICS Startdrive G110M, G120, G120C, G120D, G120P V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04

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Name	Version	Release
Siemens Totally Integrated Automation Portal V16 - Startdrive Hardware Support Base Package 1 V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04
Siemens Totally Integrated Automation Portal V16 - SINAMICS-STARTDRIVE-COMMON V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04
Siemens Totally Integrated Automation Portal V16 - SINAMICS-STARTDRIVE-COMMON-OPENNESS V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04
Siemens Totally Integrated Automation Portal V16 - SINAMICS-STARTDRIVE-COMMON-SAT V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04
Siemens Totally Integrated Automation Portal V16 - SINAMICS Startdrive G130, G150, S120, S150, SINAMICS MV V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04
Siemens Totally Integrated Automation Portal V16 - STEP 7 Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 02 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 03 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 04 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01
Siemens Totally Integrated Automation Portal V16 - Support Base Package TO-01 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01
Siemens Totally Integrated Automation Portal V16 - Support Base Package TO-02 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package WCF-01 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01
Siemens Totally Integrated Automation Portal V16 - TIACOMP CHECK Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - Simatic Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - WinCC Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - Openness SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - WinCC Transfer Mandatory Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
User Management Component - UserManagementComponentx64 V2.7 (UMC64)	V2.7	V02.07.00.00_04.06.00.07
WinCC Runtime Advanced V16.0 - HMIRTM Tagging Package 01 Single SetupPackage V16.0 (HMIRTM_V11)	V16.0	V16.00.00.00_31.02.00.01
WinCC Runtime Professional V16 - SIMATIC WinCC Runtime V16.0 (SCADA-RT_V11)	V16.0	V07.05.56.00_01.43.00.01
WinCC Runtime Professional V16 - OPCUA_Client V1.1 + SP1 (SCADA-RT_V11)	V1.1 + SP1	V01.01.01.00_01.11.00.01
WinCC Runtime Professional V16 - SCADA Simulation Single SetupPackage V16.0 (SCADA-RT_V11)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - Simatic Single SetupPackage 32 Bit V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - WinCC Single SetupPackage 32 Bit V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01

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Name	Version	Release
SIMATIC HMI License Manager Panel Plugin (x64)	16.0.0.0	V16.00.00.00_31.02.00.01
SIMATIC WinCC Runtime Advanced Driver (x64)	16.0.0.0	V16.00.00.00_31.02.00.01
ETWEventCollector	16.0.0.0	V16.00.00.00_31.02.00.01
SIMATIC NCM FWL 64	5.6.0.3	K5.6.0.3_1.1.0.2
NCM GPRS 64	01.02.00.00	V1.2.0.0_2.1.0.1
SIMATIC PLCSIM 64	16.00.00	16.00.00.00_01.00.02.01
SIMATIC Device Drivers	9.2	09.02.04.00_01.04.00.05
TelemetryConnector	1.0.2.57	V01.00.02.57_01.00.00.01
Automation Access Control Component	4.0	K04.00.01.00_01.01.00.01
Automation Software Updater	02.05.0300	V02.05.03.00_01.01.00.29
SIMATIC Colour Editor	5.2.2.0	K5.2.2.0_2.1.0.1
SIMATIC HMIPROvider	7.0	K07.00.03.01_01.01.00.01
License Logon Interface	4.0	K04.00.03.00_01.01.00.02
SIEMENS OPC	3.9	03.09.10.00_01.04.00.08
SIMATIC HMI ProSave	16.0.0.0	V16.00.00.00_31.02.00.01
SIMATIC HMI Symbol Library	16.0.0.0	V16.00.00.00_31.02.00.01
SIMATIC HMI Touch Input	16.0.0.0	V16.00.00.00_31.02.00.01
SIMATIC Runtime Interfaces	2.1	K02.01.00.03_01.01.00.01
SIMATIC Version View	1.7.11.0	K1.7.11.0_6.1.0.2
SIMATIC Common Services	5.3.15.0	K5.3.15.0_1.1.0.1
SIMATIC Device Drivers WoW	29.2	29.02.04.00_01.04.00.05
SIMATIC Event Database	5.6	05.06.02.00_01.01.00.01
SIMATIC GSD CONTROL	3.5.7.0	K3.5.7.0_2.1.0.1
SIMATIC GSD Interpreter	2.6.0.0	V2.6.0.0_8.1.0.1
SIMATIC Interface Editor	5.4.19.0	K5.4.19.0_1.1.0.1
SIMATIC Extended Interfaces	5.4.7.0	K5.4.7.0_2.1.0.1
SIMATIC LanguageSupportTool	5.8.4.0	K5.8.4.0_2.1.0.1
SIMATIC NCM	5.6.0.0	V5.6.0.0_30.4.0.3
SIMATIC Process Diagnosis Base	5.3.13.0	K5.3.13.0_1.1.0.1
SIMATIC Process Diagnosis Database	5.3.6.3	K05.03.06.03_01.01.00.01
SIMATIC DIAGNOSTIC REPEATER GUI CTRL	5.2.3.0	K5.2.3.0_1.1.0.1
SIMATIC Grid Control	2.6.0.0	V2.6.0.0_2.1.0.1
SIMATIC S7-Status-OCX	5.3.12.0	K5.3.12.0_2.1.0.1
SIMATIC Technological Parameter Assignment	5.3.12.0	K5.3.12.0_3.1.0.1
SIMATIC X-Ref Control	5.2.8.0	K5.2.8.0_2.2.0.1
SeCon	2.6	V02.06.01.00_01.08.00.01
SIMATIC Station Observer	K7.3.1.0	V07.03.01.00_01.01.00.14
SIMATIC SCS	K7.5.2.2	V07.05.02.02_01.03.00.04
SIMATIC WinCC Common Archiving	V7.5.0.0	V07.05.56.00_01.43.00.01
WinCC Runtime Advanced Simulator	16.0.0.0	V16.00.00.00_31.02.00.01
Products		
Name	Version	Release
TIA Portal Multiuser Server	V14.0 SP1	V14.00.01.00_12.01.00.01
TIA Portal Project Server	V16.0	V16.00.00.00_31.02.00.01
SIMATIC S7-PLCSIM	V14.0 SP1	V14.00.01.00_12.01.00.01
SIMATIC S7-PLCSIM	V16.0	V16.00.00.00_31.00.13.01
TIA Administrator	V1.0	01.00.02.00_01.10.00.01
SIMATIC STEP 7 Professional	V14.0 SP1	V14.00.01.00_12.01.00.01
SIMATIC WinCC Basic	V14.0 SP1	V14.00.01.00_12.01.00.01
SINAMICS G110M, G120, G120C, G120D, G120P	V16.0	V16.00.00.00_20.00.00.04
SINAMICS G130, G150, S120, S150, SINAMICS MV, S210	V16.0	V16.00.00.00_20.00.00.04
SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Prof	V16.0	V16.00.00.00_31.02.00.01
User Management Component	V2.7	V02.07.00.00_00.00.00.00
SIMATIC WinCC Runtime Advanced Simulation	V16.0	V16.00.00.00_31.02.00.01
SIMATIC WinCC Runtime Professional Simulation	V16.0	V16.00.00.00_31.02.00.01

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<table><tr><th>Name</th><th>Version</th><th>Release</th></tr><tr><td>TIA Portal Cloud Connector</td><td>V1.1</td><td>01.01.00.00_01.10.00.01</td></tr><tr><td>Automation License Manager</td><td>V6.0 + SP5 + Upd1</td><td>06.00.05.01_02.01.00.05</td></tr><tr><td>S7-PLCSIM</td><td>V5.4 + SP8</td><td>V05.04.08.01_01.24.00.01</td></tr><tr><td>SIMATIC ProSave</td><td>V16.0</td><td>V16.00.00.00_31.02.00.01</td></tr><tr><td>Primary Setup Tool</td><td>V4.2 + HF1</td><td>K4.2.0.1_13.1.0.1</td></tr><tr><td>SIMATIC S7-Block Privacy</td><td>V1.0 + SP4</td><td>K1.0.4.0_9.1.0.1</td></tr><tr><td>S7-PCT</td><td>V3.5 + SP1</td><td>K3.5.1.0_1.19.0.1</td></tr><tr><td>STEP 7</td><td>V5.6</td><td>V5.6.0.0_30.4.0.3</td></tr><tr><td>SIMATIC S7-Web2PLC</td><td>V1.0 + SP3</td><td>K1.0.3.0_8.1.0.1</td></tr></table>	Name	Version	Release	TIA Portal Cloud Connector	V1.1	01.01.00.00_01.10.00.01	Automation License Manager	V6.0 + SP5 + Upd1	06.00.05.01_02.01.00.05	S7-PLCSIM	V5.4 + SP8	V05.04.08.01_01.24.00.01	SIMATIC ProSave	V16.0	V16.00.00.00_31.02.00.01	Primary Setup Tool	V4.2 + HF1	K4.2.0.1_13.1.0.1	SIMATIC S7-Block Privacy	V1.0 + SP4	K1.0.4.0_9.1.0.1	S7-PCT	V3.5 + SP1	K3.5.1.0_1.19.0.1	STEP 7	V5.6	V5.6.0.0_30.4.0.3	SIMATIC S7-Web2PLC	V1.0 + SP3	K1.0.3.0_8.1.0.1		
Name	Version	Release																														
TIA Portal Cloud Connector	V1.1	01.01.00.00_01.10.00.01																														
Automation License Manager	V6.0 + SP5 + Upd1	06.00.05.01_02.01.00.05																														
S7-PLCSIM	V5.4 + SP8	V05.04.08.01_01.24.00.01																														
SIMATIC ProSave	V16.0	V16.00.00.00_31.02.00.01																														
Primary Setup Tool	V4.2 + HF1	K4.2.0.1_13.1.0.1																														
SIMATIC S7-Block Privacy	V1.0 + SP4	K1.0.4.0_9.1.0.1																														
S7-PCT	V3.5 + SP1	K3.5.1.0_1.19.0.1																														
STEP 7	V5.6	V5.6.0.0_30.4.0.3																														
SIMATIC S7-Web2PLC	V1.0 + SP3	K1.0.3.0_8.1.0.1																														

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Safety PLC example

PLC_1 [CPU 1515TF-2 PN]

PLC_1

General\Project information

Name	PLC_1	Author	PLC Traning
Comment		Rack	0
Slot	1		

General\Catalog information

Short designation	CPU 1515TF-2 PN	Description	Fail-safe technology CPU with display; work memory 750 KB code and 3 MB data; can be used for safety applications; supports PROFIsafe V2; 30 ns bit operation time; 5-stage protection concept, technology functions: extended motion control, closed-loop control, counting and measuring; tracing; Runtime options; isochronous mode (central); for all PROFINET interfaces: transport protocol TCP/IP, secure Open User Communication, S7 communication, S7 routing, IP forwarding, Web server, DNS client, OPC UA: Server DA, Client DA, methods, companion specifications; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-Device, MRP, MRPD, isochronous mode; 2nd interface: PROFINET IO controller, supports RT, I-Device; firmware V2.8
Article number	6ES7 515-2UM01-0AB0	Firmware version	V2.8

General\Identification & Maintenance

Plant designation		Location identifier	
Installation date	2023-02-12 12:56:35.524	Additional information	

General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	BC 3B 30 88 D3 B6 6D 91
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Fail-safe\F-activation

F-capability activated	1	
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Fail-safe\F-parameters

Central F-source address	1		Default F-monitoring time for central F-I/O	150ms	
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Fail-safe\F-parameters\F-destination address range for PROFIsafe address type 1

Low limit for F-destination addresses	1		High limit for F-destination addresses	99	
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PROFINET interface [X1]\General

Name	PROFINET interface_1	Author	PLC Traning
Comment			

PROFINET interface [X1]\F-parameters

Default F-monitoring time for F-I/O of this interface	150ms	
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PROFINET interface [X1]\Ethernet addresses\Interface networked with

Subnet:	Not connected
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
PROFINET interface [X1]\Ethernet addresses\IP protocol

IP configuration	Set IP address in the project	IP address:	192.168.0.1
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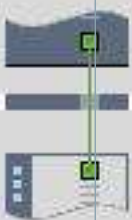
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Subnet mask:	255.255.255.0	Use router	False
PROFINET interface [X1]\Ethernet addresses\PROFINET			
PROFINET device name is set directly at the device	False	Generate PROFINET device name automatically	True
PROFINET device name:	plc_1.profinet interface_1	Converted name:	plcxb1.profinetxainterfacexb1036c
Device number:	0		
PROFINET interface [X1]\Time-of-day synchronization\NTP mode			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].		
	IP addresses	Enable time synchronization via NTP server	False
Server 2	0.0.0.0	Server 1	0.0.0.0
Server 4	0.0.0.0	Server 3	0.0.0.0
		Update interval	10s
PROFINET interface [X1]\Operating mode			
IO controller	True	IO system	
Device number	0	IO device	False
PROFINET interface [X1]\Advanced options\Interface options			
Call the user program if communication errors occur	False	Support device replacement without exchangeable medium	True
Permit overwriting of device names of all assigned IO devices	False	Limit data infeed into the network	True
Use IEC V2.2 LLDP mode	False	Keep-Alive connection monitoring:	30s
PROFINET interface [X1]\Advanced options\Real time settings\IO communication			
Send clock:	4.000ms		
PROFINET interface [X1]\Advanced options\Real time settings\Synchronization			
RT class:	RT,IRT		
PROFINET interface [X1]\Advanced options\Real time settings\Real time options			
Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General			
Name	Port_1	Author	PLC Traning
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	Medium:	Copper
Cable name:	---		
			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	Alternative partners	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Activate			
Activate this port for use	True		

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PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	Monitor	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Boundaries			
End of detection of accessible devices	False	End of topology discovery	False
End of the sync domain	False		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\General			
Name	Port_2	Author	PLC Traning
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_2 [X1 P2 R]	Medium:	Copper
Cable name:	---		
			
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	Alternative partners	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	Monitor	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries			
End of detection of accessible devices	False	End of topology discovery	False
End of the sync domain	False		
PROFINET interface [X1]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	Enable Web server via IP address of this interface	False
PROFINET interface [X2]\General			
Name	PROFINET interface_2	Author	PLC Traning
Comment			
PROFINET interface [X2]\F-parameters			
Default F-monitoring time for F-I/O of this interface	150ms		
PROFINET interface [X2]\Ethernet addresses\Interface networked with			
Subnet:	Not connected		
PROFINET interface [X2]\Ethernet addresses\IP protocol			
IP configuration	Set IP address in the project	IP address:	192.168.1.1
Subnet mask:	255.255.255.0	Use router	False


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PROFINET interface [X2]\Ethernet addresses\PROFINET			
PROFINET device name is set directly at the device	False	Generate PROFINET device name automatically	True
PROFINET device name:	plc_1.profinet interface_2	Converted name:	plcxb1.profinetxainterfacexb2022c
Device number:	0		
PROFINET interface [X2]\Time-of-day synchronization\NTP mode			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].		
	IP addresses	Enable time synchronization via NTP server	False
Server 2	0.0.0.0	Server 1	0.0.0.0
Server 4	0.0.0.0	Server 3	0.0.0.0
		Update interval	10s
PROFINET interface [X2]\Operating mode			
IO controller	True	IO system	
Device number	0	IO device	False
PROFINET interface [X2]\Advanced options\Interface options			
Call the user program if communication errors occur	False	Support device replacement without exchangeable medium	True
Permit overwriting of device names of all assigned IO devices	False	Limit data infeed into the network	False
Use IEC V2.2 LLDP mode	False	Keep-Alive connection monitoring:	30s
PROFINET interface [X2]\Advanced options\Real time settings\IO communication			
Send clock:	1.000ms		
PROFINET interface [X2]\Advanced options\Real time settings\Real time options			
Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%
PROFINET interface [X2]\Advanced options\Port [X2 P1]\General			
Name	Port_1	Author	PLC Training
Comment			
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_2 [X2]\Port_1 [X2 P1]	Medium:	Copper
Cable name:	---		
			
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	Alternative partners	False
Partner port:	Any partner		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Connection			
Transmission rate / duplex:	Automatic	Monitor	False

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<div>Enable autonegotiation</div> <div>True</div>					
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries					
End of detection of accessible devices		False		End of topology discovery	
End of the sync domain		False			
PROFINET interface [X2]\Web server access					
Note		The Web server must also be activated in the properties of the PLC.		Enable Web server via IP address of this interface	
				False	
Startup					
Startup after POWER ON		Warm restart - Operating mode before POWER OFF		Comparison preset to actual configuration	
				Startup CPU even if mismatch	
Configuration time		60000ms			
Cycle					
Maximum cycle time		150ms			
Enable minimum cycle time for cyclic OBs		True		Minimum cycle time	
				1ms	
Communication load					
Cycle load due to communication		20%			
System and clock memory\System memory bits					
Enable the use of system memory byte		False		Address of system memory byte (MBx)	
First cycle				Diagnostic status changed	
Always 1 (high)				Always 0 (low)	
System and clock memory\Clock memory bits					
Enable the use of clock memory byte		False		Address of clock memory byte (MBx)	
10 Hz clock				5 Hz clock	
2.5 Hz clock				2 Hz clock	
1.25 Hz clock				1 Hz clock	
0.625 Hz clock				0.5 Hz clock	
SIMATIC Memory Card\Diagnostics					
Aging of the SIMATIC memory card		False		Threshold value	
				80%	
System diagnostics\General					
Activate system diagnostics for this device		True		Report network faults as maintenance instead of fault	
				False	
PLC alarms\General					
Central alarm management in the PLC		True			
Web server\General					
Activate web server on this module		False		Permit access only with HTTPS	
				True	
Web server\Automatic update					
Enable automatic update		True		Update interval	
				0s	
Web server\User management					
User name			User rights		
Everybody					
Web server\User-defined web pages					
Application name	HTML source path	Default HTML page	Files with dynamic content	Web DB number	Fragment DB number
		index.htm	.htm;.html	333	334

Instrumentation Tools

Totally Integrated Automation Portal				
Web server\Overview of interfaces				
Device	Interface		Enabled web server access	
PLC_1	PROFINET interface_1		False	
PLC_1	PROFINET interface_2		False	
Display\General\Display standby mode				
Time to standby mode	30 minutes			
Display\General\Energy saving mode				
Time to energy saving mode	15 minutes			
Display\General\Display language				
Default language on display	English			
Display\Automatic update				
Time to update	5 seconds			
Display\Password\Display protection				
Enable write access	True		Enable display protection	False
Display\User-defined logo				
User logo activated	False		Adapt logo	False
Resolution	240x260		Company logo	---
User interface languages				
Assign project language		User interface languages		
English (United States)		German		
English (United States)		English		
English (United States)		French		
English (United States)		Spanish		
English (United States)		Italian		
English (United States)		Japanese		
English (United States)		Chinese (simplified)		
English (United States)		Korean		
English (United States)		Russian		
English (United States)		Turkish		
English (United States)		Portuguese (Brazil)		
Time of day\Local time				
Time zone	(UTC) Dublin, Edinburgh, Lisbon, London			
Time of day\Daylight saving time				
Activate daylight saving time	True		Difference between standard and daylight saving time	60mins
Time of day\Daylight saving time\Start of daylight saving time				
Selection of the week of	Last		Selection of the week-day at	Sunday
	March			01:00 a.m.
Time of day\Daylight saving time\Start of standard time				
Selection of the week of	Last		Selection of the week-day at	Sunday
	October			02:00 a.m.
Protection				
Level of protection	Full access with fail-safe (no protection)			
Protection\Connection mechanisms				
Permit access with PUT/GET communication from remote partner	False			

Instrumentation Tools

Totally Integrated Automation Portal					
Protection\Security event					
Summarize security events in case of high message volume	True	Length of an interval	20		
Unit	seconds				
OPC UA\Accessibility of the server					
Activate OPC UA server	False				
System power supply\General					
General	Connection to supply voltage L+				
System power supply\Power segment overview					
Module	Slot	Supply/consumption			
PLC_1	1	12.00W			
F-DI 16x24V DC_1	2	-0.90W			
F-DQ 8x24V DC/2A PPM_1	3	-0.80W			
DI 16x24VDC BA_1	4	-1.05W			
	Summary	9.25W			
Advanced configuration\DNS configuration					
No DNS server address is configured.					
Advanced configuration\IP Forwarding\Configuration IPv4 Forwarding					
Enable IPv4 forwarding for interfaces of this PLC	False				
Advanced configuration\Configuration control\Configuration control for central configuration					
Allow reconfiguration of device via the user program	False				
Connection resources\					
	Station resources - Reserved - Maximum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - PLC_1 [CPU 1515TF-2 PN] - Configured	
Maximum number of resources:		10	98	108	
	Maximum	Configured	Configured	Configured	
PG communication:	4	-	-	-	
HMI communication:	4	0	0	0	
S7 communication:	0	-	0	0	
Open user communication:	0	-	0	0	
Web communication:	2	-	-	-	
OPC UA client/server communication:	0	-	-	-	
Other communication:	-	-	0	0	
Total resources used:		0	0	0	
Available resources:		10	98	108	
Overview of addresses\Overview of addresses\Overview of addresses					
Inputs	True	Outputs	True		
Address gaps	False	Slot	True		

Instrumentation Tools

Totally Integrated Automation Portal							
--------------------------------------	--	--	--	--	--	--	--

Type	I	Addr. from	0	Addr. to	8	Module	F-DI 16x24V DC_1
PIP	-	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	9 Bytes	Master / IO-system	-	Rack	0	Slot	2
Type	O	Addr. from	0	Addr. to	4	Module	F-DI 16x24V DC_1
PIP	-	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	5 Bytes	Master / IO-system	-	Rack	0	Slot	2
Type	I	Addr. from	9	Addr. to	14	Module	F-DQ 8x24V DC/2A PPM_1
PIP	-	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	6 Bytes	Master / IO-system	-	Rack	0	Slot	3
Type	O	Addr. from	9	Addr. to	14	Module	F-DQ 8x24V DC/2A PPM_1
PIP	-	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	6 Bytes	Master / IO-system	-	Rack	0	Slot	3
Type	I	Addr. from	15	Addr. to	16	Module	DI 16x24VDC BA_1
PIP	Automatic update	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	2 Bytes	Master / IO-system	-	Rack	0	Slot	4

Runtime licenses\OPC UA\Runtime licenses			
Type of required license	None	Type of purchased license	No license

Runtime licenses\ProDiag\Supervisions			
Number of used supervisions	0		

Runtime licenses\ProDiag\Runtime licenses			
Number of required licenses	None (<= 25 supervisions)	Used ProDiag licenses	No license

Runtime licenses\Energy Suite\Energy objects			
Number of configured energy objects	0		

Runtime licenses\Energy Suite\Runtime licenses			
Total number of licensed energy objects	0		

Runtime licenses\Energy Suite\Runtime licenses\Number of purchased licenses			
License type '5 energy objects'	No license	License type '10 energy objects'	No license

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Safety Administration

Safety summary

General information

F-signatures

Collective F-signature	CE983482
Software F-signature	3B89635E
Hardware F-signature	930ED124
F-communication address signature	----

Current compilation

Safety program state	The offline safety program is consistent.
Compilation time	2/19/2023 2:05:21 PM (UTC +2:00)

Used versions

STEP 7	STEP 7 Professional V16
Safety	STEP 7 Safety V16

Access protection

Safety program	The safety program is protected by password
F-CPU	Full access with fail-safe (no protection)

Notes

Location	Note	Additional info
General information	The response time of your safety function also depends on the cycle time of the F-OB and the runtime of the F-runtime group. When using distributed F-I/O modules, the response time also depends on the PROFINET/PROFIBUS parameter assignment. The configuration and parameter assignment of the standard system also has an effect on the response time of your safety function. Note that the configuration and parameter assignment of the standard system is not subject to the access protection of the safety program and does not change the F collective signature.	Note the warning "S085" in the manual and in the STEP 7 Safety online help.

Safety program settings

Safety mode can be disabled	No
Assignment of F-system block numbers	F-system managed
Safety system version	V2.3
Variable F-communication IDs enabled	No

System library elements used in safety program

Instructions (STEP 7 Safety)

Name	Used version
ESTOP1	V1.6
SFDOOR	V1.3

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated
Automation Portal

Information on F-runtime group

RTG1

Fail-safe organization block

Name	FOB_RTG1 [OB123]
Event class	Cyclic interrupt
Cycle time	100000 µs
Phase shift	0 µs
Priority	12

Main safety block

Name	Main_Safety_RTG1 [FB1]
I-DB for main safety block	Main_Safety_RTG1_DB [DB1]

F-runtime group parameters

Name	F-runtime group 1
Warn cycle time of the F-runtime group	110000 µs
Maximum cycle time of the F-runtime group	120000 µs
DB for F-runtime group communication	--
F-runtime group information DB	RTG1SysInfo

Pre/Post processing

FC for pre processing	--
FC for post processing	--

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Automation Portal

F-blocks in safety program

Block name [Block number]	Function in safety program	Used and compiled in F-RTG	Signature
FOB_RTG1 [OB123]	F-OB [system-protected]	RTG1	B5822451
Main_Safety_RTG1 [FB1]	F-FB	RTG1	1216D1EC
Main_Safety_RTG1_DB [DB1]	F-IDB	RTG1	AD915AEC

Know-how protected F-blocks in the safety program

The safety program does not include know-how protected F-blocks.

F-compliant PLC data types in the safety program

The safety program contains no F-compliant PLC data types (UDT).

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Data from the standard user program

Absolute address	Symbolic operand	F-runtime group	Block name [Block number]	Network
I15.0	"ACK"	RTG1	Main_Safety_RTG1 [FB1]	1
I15.0	"ACK"	RTG1	Main_Safety_RTG1 [FB1]	2

Parameters for safety-related CPU-CPU communications via RCVDP, SENDDP

No safety-related CPU-CPU communication via RCVDP, SENDDP is configured.

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Communications via Flexible F-Link

No communications via Flexible F-Link are defined for the F-Program.

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Hardware configuration of F-I/O

F-CPU information

Short designation	CPU 1515TF-2 PN
Article number	6ES7 515-2UM01-0AB0
Firmware version	V2.8
Central F-source address	1
F-destination address range (PROFIsafe address type 1)	--
F-destination address range (PROFIsafe address type 2)	65533 .. 65534

Central periphery

Rail - Slot	Module	Start address	F-destination address	F-monitoring time	Parameter signature (w/o addresses)
Rail_0-2	6ES7 526-1BH00-0AB0 F-DI 16x24V DC_1	0	65534	150 ms	0xC147 (49479)
Rail_0-3	6ES7 526-2BF00-0AB0 F-DQ 8x24V DC/2A PPM_1	9	65533	150 ms	0x10B5 (4277)

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated Automation Portal					
F-DI 16x24V DC_1 : Central I/O Rail_0, Slot 2					
General parameters			Specific Parameters		
Hardware			Sensor supply 0		
Name	F-DI 16x24V DC_1		Supplied channels	Channels [0...3]	
Slot	2		Short-circuit test activated	Yes	
Short designation	F-DI 16x24V DC		Time for short-circuit test	4.2 ms	
Article number	6ES7 526-1BH00-0AB0		Startup time of sensor after short-circuit test	4.2 ms	
Start address input	0		Sensor supply 1		
Start address output	0		Supplied channels	Channels [4...7]	
Hardware identifier	258		Short-circuit test activated	Yes	
F-monitoring time	150 ms		Time for short-circuit test	4.2 ms	
F-source address	1		Startup time of sensor after short-circuit test	4.2 ms	
F-destination address	65534		Sensor supply 2		
F-parameter signature (without addresses)	0xC147 (49479)		Supplied channels	Channels [8...11]	
F-parameter signature (with addresses)	0xDA84 (55940)		Short-circuit test activated	Yes	
Behavior after channel fault	Passivate channel		Time for short-circuit test	4.2 ms	
RIOforFA-Safety	Yes		Startup time of sensor after short-circuit test	4.2 ms	
PROFIsafe mode	V2 mode		Sensor supply 3		
PROFIsafe protocol version	Expanded protocol (XP)		Supplied channels	Channels [12...15]	
Firmware version	V1.0		Short-circuit test activated	Yes	
Software			Time for short-circuit test	4.2 ms	
F-I/O DB number	30002		Startup time of sensor after short-circuit test	4.2 ms	
F I/O DB name	F00000_F-DI16x24VDC_1		Channel 0, 8		
Used in F-runtime group	RTG1		Sensor evaluation	1oo2 evaluation, equivalent	
			Discrepancy behavior	Supply value 0	
			Discrepancy time	5 ms	
			Reintegration after discrepancy error	Test 0-Signal not necessary	
			Channel 0		
			Channel activated	Yes	
			Input delay	3.2 ms	
			Channel failure acknowledge	Manual	
			Pulse extension	--- sec	
			Chatter monitoring	No	
			Number of signal changes	5	
			Monitoring window	2 sec	
			Channel 8		
			Channel activated	Yes	
			Input delay	3.2 ms	
			Channel failure acknowledge	Manual	
			Pulse extension	--- sec	
			Chatter monitoring	No	
Safety information: CE983482 Consistent; STEP 7 Safety V16;					

Instrumentation Tools

Totally Integrated Automation Portal		
General parameters	Specific Parameters	
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 1, 9	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	Channel 1	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 9	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 2, 10	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	Channel 2	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 10	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 3, 11	
	Sensor evaluation	1oo2 evaluation, equivalent
Safety information: CE983482 Consistent; STEP 7 Safety V16;		

Instrumentation Tools

Totally Integrated Automation Portal		
General parameters	Specific Parameters	
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	Channel 3	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 11	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 4, 12	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	Channel 4	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 12	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 5, 13	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
Safety information: CE983482 Consistent; STEP 7 Safety V16;		

Instrumentation Tools

Totally Integrated Automation Portal		
General parameters	Specific Parameters	
	Channel 5	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 13	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 6, 14	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	Channel 6	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 14	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 7, 15	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	Channel 7	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
Safety information: CE983482 Consistent; STEP 7 Safety V16;		

Instrumentation Tools

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Automation Portal

General parameters

Specific Parameters

Pulse extension --- sec

Chatter monitoring No

Number of signal
changes 5

Monitoring window 2 sec

Channel 15

Channel activated Yes

Input delay 3.2 ms

Channel failure ac-
knowledge Manual

Pulse extension --- sec

Chatter monitoring No

Number of signal
changes 5

Monitoring window 2 sec

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated Automation Portal					
F-DQ 8x24V DC/2A PPM_1 : Central I/O Rail_0, Slot 3					
General parameters			Specific Parameters		
Hardware					
Name	F-DQ 8x24V DC/2A PPM_1		Maximum test period	1000 sec	
Slot	3		Operating mode of the output	PM-switching mode	
Short designation	F-DQ 8x24V DC/2A PPM		Channel 0		
Article number	6ES7 526-2BF00-0AB0		Channel activated	Yes	
Start address input	9		Channel failure ac-knowledge	Manual	
Start address output	9		Max. readback time dark test	1.0 ms	
Hardware identifier	259		Disable dark test for 48 hours	No	
F-monitoring time	150 ms		Max. readback time switch on test	0.8 ms	
F-source address	1		Activated light test	No	
F-destination address	65533		Wire break	No	
F-parameter signature (without addresses)	0x10B5 (4277)		Channel 1		
F-parameter signature (with addresses)	0x4A58 (19032)		Channel activated	Yes	
Behavior after channel fault	Passivate channel		Channel failure ac-knowledge	Manual	
RIOforFA-Safety	Yes		Max. readback time dark test	1.0 ms	
PROFIsafe mode	V2 mode		Disable dark test for 48 hours	No	
PROFIsafe protocol version	Expanded protocol (XP)		Max. readback time switch on test	0.8 ms	
Firmware version	V1.0		Activated light test	No	
Software			Wire break	No	
F-I/O DB number	30003		Channel 2		
F I/O DB name	F00009_F-DQ8x24VDC/2APPM_1		Channel activated	Yes	
Used in F-runtime group	RTG1		Channel failure ac-knowledge	Manual	
			Max. readback time dark test	1.0 ms	
			Disable dark test for 48 hours	No	
			Max. readback time switch on test	0.8 ms	
			Activated light test	No	
			Wire break	No	
			Channel 3		
			Channel activated	Yes	
			Channel failure ac-knowledge	Manual	
			Max. readback time dark test	1.0 ms	
			Disable dark test for 48 hours	No	
			Max. readback time switch on test	0.8 ms	
			Activated light test	No	
			Wire break	No	
			Channel 4		
			Channel activated	Yes	
			Channel failure ac-knowledge	Manual	
			Max. readback time dark test	1.0 ms	

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated
Automation Portal

General parameters

Specific Parameters

Disable dark test for 48 hours	No
Max. readback time switch on test	0.8 ms
Activated light test	No
Wire break	No
Channel 5	
Channel activated	Yes
Channel failure acknowledge	Manual
Max. readback time dark test	1.0 ms
Disable dark test for 48 hours	No
Max. readback time switch on test	0.8 ms
Activated light test	No
Wire break	No
Channel 6	
Channel activated	Yes
Channel failure acknowledge	Manual
Max. readback time dark test	1.0 ms
Disable dark test for 48 hours	No
Max. readback time switch on test	0.8 ms
Activated light test	No
Wire break	No
Channel 7	
Channel activated	Yes
Channel failure acknowledge	Manual
Max. readback time dark test	1.0 ms
Disable dark test for 48 hours	No
Max. readback time switch on test	0.8 ms
Activated light test	No
Wire break	No

Supplementary information

Print created on	2/19/2023 2:36:00 PM (UTC +2:00)
Page numbers for safety summary	From 3 - 1 to 3 - 13

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Safety Administration / Fail-safe user blocks

Main_Safety_RTG1

Main_Safety_RTG1 Properties

General

Name	Main_Safety_RTG1	Number	1	Type	FB
Language	LAD	Numbering	Manual		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Set-point	Supervision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1			True	True	True	True		
▼ Input									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	Non-retain	True	True	True	True		
▼ SFDOOR_Instance	SFDOOR			True	True	True	True		

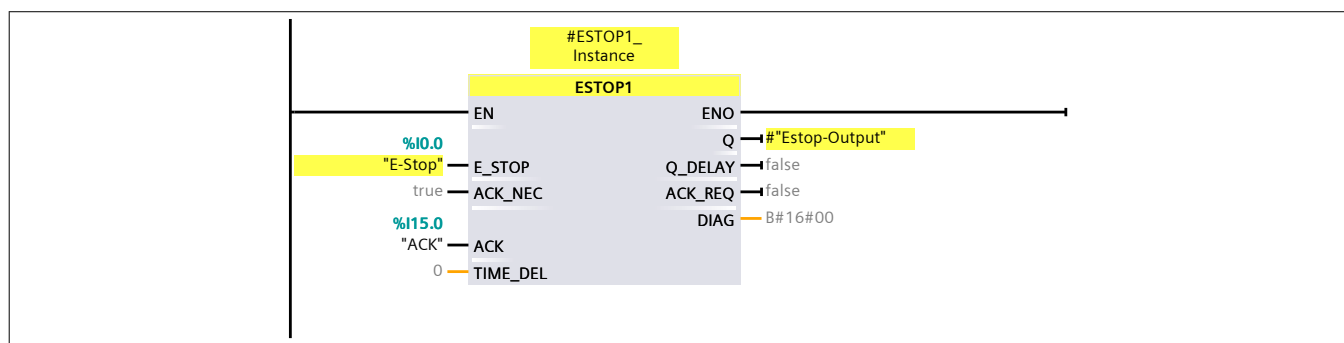
Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Input 1
IN2	Bool	false	Non-retain	True	True	True	False		Input 2
QBAD_IN1	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of in- put IN1
QBAD_IN2	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of in- put IN2
OPEN_NEC	Bool	true	Non-retain	True	True	True	False		1=open necessary at startup
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=acknowledg- ment necessary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable, safety door closed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledge- ment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service informa- tion
InOut									
Static									
SafetyDoorOutput	Bool	false	Non-retain	True	True	True	True		
Temp									
Constant									

Network 1:

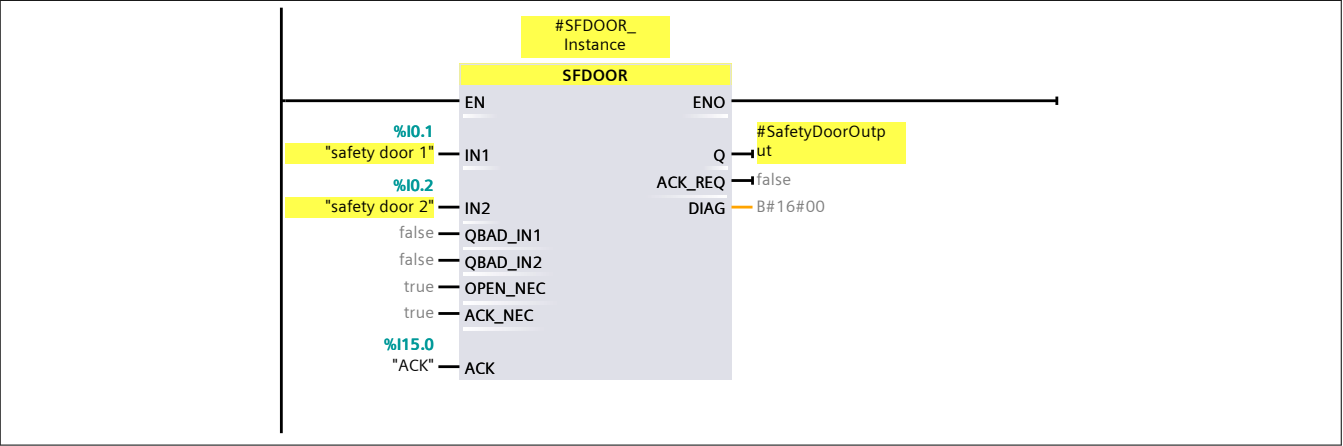


Safety information: CE983482 Consistent; STEP 7 Safety V16;

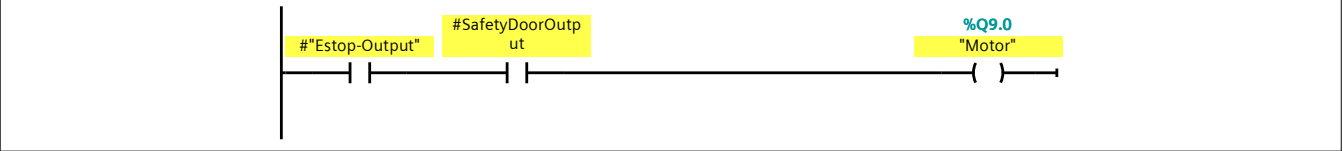
Instrumentation Tools

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Automation Portal

Network 2:



Network 3:



Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Safety Administration / Fail-safe user blocks

Main_Safety_RTG1_DB

Main_Safety_RTG1_DB Properties

General

Name	Main_Safety_RTG1_DB	Number	1	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	FUSI

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble from en- gineer- ing HMI/O PC UA/ We b API	Visible in HMI	Set- point	Super- vision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1		False	True	True	True	True		
▼ Input									
E_STOP	Bool	false	False	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	False	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	False	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	False	True	True	True	False		1=Enable
Q_DELAY	Bool	false	False	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	False	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	False	True	True	True	True		
▼ SFDOOR_Instance	SFDOOR		False	True	True	True	True		

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Name	Data type	Start value	Retain	Access- ible from HMI/O PC UA/Web API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
▼ Input									
IN1	Bool	false	False	True	True	True	False		Input 1
IN2	Bool	false	False	True	True	True	False		Input 2
QBAD_IN1	Bool	false	False	True	True	True	False		QBAD signal of FI/O/ channel of input IN1
QBAD_IN2	Bool	false	False	True	True	True	False		QBAD signal of FI/O/ channel of input IN2
OPEN_NEC	Bool	true	False	True	True	True	False		1=open necessary at startup
ACK_NEC	Bool	true	False	True	True	True	False		1=acknowledgment nec- essary
ACK	Bool	false	False	True	True	True	False		Acknowledgment
▼ Output									
Q	Bool	false	False	True	True	True	False		1=Enable, safety door closed
ACK_REQ	Bool	false	False	True	True	True	False		1=acknowledgement re- quest
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	False	True	True	True	True		
Safety information: CE983482 Consistent; STEP 7 Safety V16;									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN]

Software units

This folder is empty.

Instrumentation Tools

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Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks

Main [OB1]

Main Properties

General

Name	Main	Number	1	Type	OB
Language	LAD	Numbering	Automatic		

Information

Title	"Main Program Sweep (Cycle)"	Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks

FOB_RTG1 [OB123]

FOB_RTG1 Properties

General

Name	FOB_RTG1	Number	123	Type	OB
Language	SCL	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Event_Count	Int		Events discarded

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks

Main_Safety_RTG1 [FB1]

Main_Safety_RTG1 Properties

General

Name	Main_Safety_RTG1	Number	1	Type	FB
Language	LAD	Numbering	Manual		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

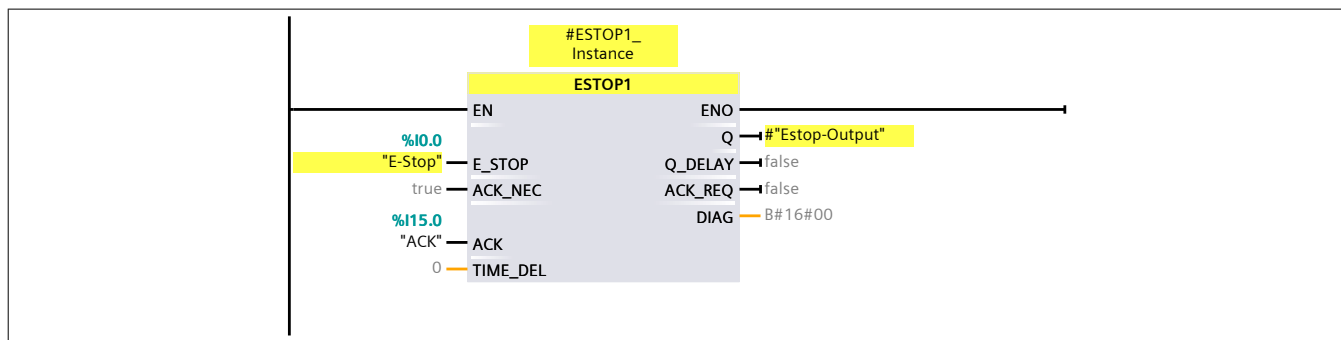
Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble from HMI I/O PC UA/ We b API	Visible in HMI engi- neering	Set- point	Super- vision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1			True	True	True	True		
▼ Input									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	Non-retain	True	True	True	True		
▼ SFDOOR_Instance	SFDOOR			True	True	True	True		
▼ Input									

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated Automation Portal									
Name	Data type	Default value	Retain	Access- sible from HMI/OP C UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
IN1	Bool	false	Non-retain	True	True	True	False		Input 1
IN2	Bool	false	Non-retain	True	True	True	False		Input 2
QBAD_IN1	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN1
QBAD_IN2	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN2
OPEN_NEC	Bool	true	Non-retain	True	True	True	False		1=open necessary at startup
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable, safety door closed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	Non-retain	True	True	True	True		
Temp									
Constant									

Network 1:

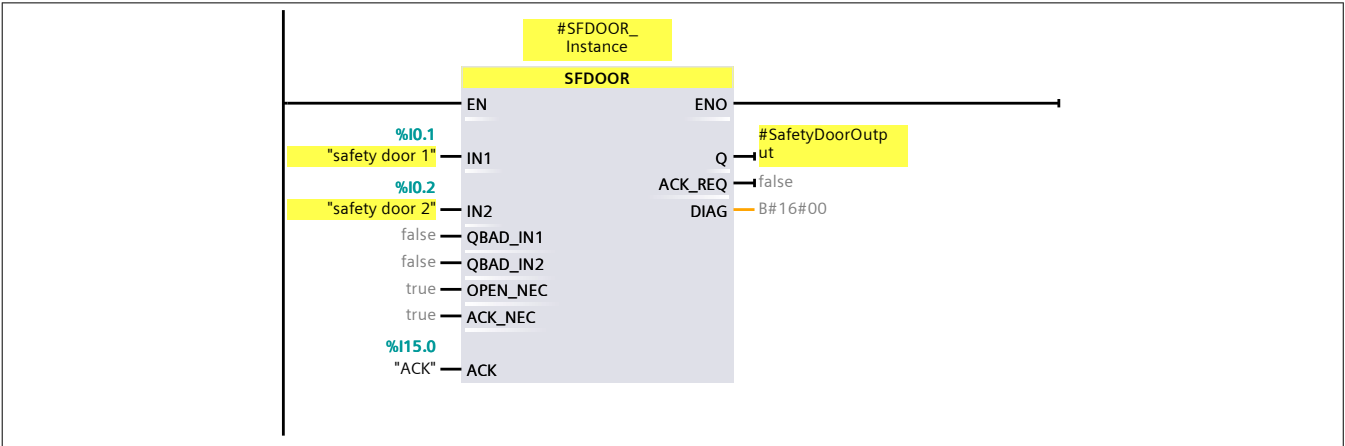


Network 2:

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated Automation Portal		
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Network 3:



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Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks

Main_Safety_RTG1_DB [DB1]

Main_Safety_RTG1_DB Properties

General

Name	Main_Safety_RTG1_DB	Number	1	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	FUS1

Name	Data type	Start value	Retain	Access- ible from HMI/O PC UA/We b API	Wri- ta- ble from en- gineer- ing HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1		False	True	True	True	True		
▼ Input									
E_STOP	Bool	false	False	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	False	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	False	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	False	True	True	True	False		1=Enable
Q_DELAY	Bool	false	False	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	False	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	False	True	True	True	True		
▼ SFDOOR_Instance	SFDOOR		False	True	True	True	True		
▼ Input									

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated Automation Portal									
Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/Web API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
IN1	Bool	false	False	True	True	True	False		Input 1
IN2	Bool	false	False	True	True	True	False		Input 2
QBAD_IN1	Bool	false	False	True	True	True	False		QBAD signal of FI/O/ channel of input IN1
QBAD_IN2	Bool	false	False	True	True	True	False		QBAD signal of FI/O/ channel of input IN2
OPEN_NEC	Bool	true	False	True	True	True	False		1=open necessary at startup
ACK_NEC	Bool	true	False	True	True	True	False		1=acknowledgment nec- essary
ACK	Bool	false	False	True	True	True	False		Acknowledgment
▼ Output									
Q	Bool	false	False	True	True	True	False		1=Enable, safety door closed
ACK_REQ	Bool	false	False	True	True	True	False		1=acknowledgement re- quest
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	False	True	True	True	True		
Safety information: CE983482 Consistent; STEP 7 Safety V16;									

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety

RTG1SysInfo [DB30000]

RTG1SysInfo Properties

General

Name	RTG1SysInfo	Number	30000	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	SafeSys	Comment	
Family	F_CTRL	Version	2.2	User-defined ID	F_CTRL_1

Name	Data type	Start value	Retain	Access- ible from HMI/O PC UA/We b API	Wri- ta- ble from en- gineer- ing	Visible in HMI	Set- point	Super- vision	Comment
Input									
▼ Output									
MODE	Bool	false	False	True	True	True	False		1 = deactivated safety mode
▼ F_SYSINFO	F_SYSIN- FO		False	True	True	True	False		F-Runtime group infor- mation
MODE	Bool	false	False	True	True	True	False		1 = deactivated safety mode
TCYC_CURR	DInt	0	False	True	True	True	False		current cycle time of the F-Runtime group in ms
TCYC_LONG	DInt	0	False	True	True	True	False		longest cycle time of the F-Runtime group in ms
TRTG_CURR	DInt	0	False	True	True	True	False		current runtime of the F- Runtime group in ms
TRTG_LONG	DInt	0	False	True	True	True	False		longest runtime of the F- Runtime group in ms
T1RTG_CURR	DInt	0	False	True	True	True	False		current runtime in ms for further use
T1RTG_LONG	DInt	0	False	True	True	True	False		longest runtime in ms for further use
F_PROG_SIG	DWord	DW#16#CE983482	False	True	True	True	False		Collective F-signature of the safety program
▼ F_PROG_DAT	DTL	DTL#2023-2-19-12 :5:21.760433800	False	True	True	True	False		Compilation date of the safety program
YEAR	UInt	2023	False	True	True	True	False		
MONTH	USInt	2	False	True	True	True	False		
DAY	USInt	19	False	True	True	True	False		
WEEKDAY	USInt	1	False	True	True	True	False		

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated Automation Portal									
Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
HOUR	USInt	12	False	True	True	True	False		
MINUTE	USInt	5	False	True	True	True	False		
SECOND	USInt	21	False	True	True	True	False		
NANOSEC- OND	UDInt	760433800	False	True	True	True	False		
F_RTG_SIG	DWord	DW#16#5B44A312	False	True	True	True	False		Collective F-signature of the F-Runtime group
▼ F_RTG_DAT	DTL	DTL#2023-2-19-12 :5:21.760433800	False	True	True	True	False		Compilation date of the F-Runtime group
YEAR	UInt	2023	False	True	True	True	False		
MONTH	USInt	2	False	True	True	True	False		
DAY	USInt	19	False	True	True	True	False		
WEEKDAY	USInt	1	False	True	True	True	False		
HOUR	USInt	12	False	True	True	True	False		
MINUTE	USInt	5	False	True	True	True	False		
SECOND	USInt	21	False	True	True	True	False		
NANOSEC- OND	UDInt	760433800	False	True	True	True	False		
VERS_S7SAF	DWord	DW#16#16000000	False	True	True	True	False		Version label of STEP 7 Safety
InOut									
Static									
Safety information: CE983482 Consistent; STEP 7 Safety V16;									

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety

F_SystemInfo_DB [DB30001]

F_SystemInfo_DB Properties

General

Name	F_SystemInfo_DB	Number	30001	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	F_GLOBDB

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
▼ Static									
FCCValue	DWord	16#0	False	True	True	True	False		

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety

F_ESTOP1 [FB215]

F_ESTOP1 Properties

General

Name	F_ESTOP1	Number	215	Type	FB
Language	FBD	Numbering	Automatic		

Information

Title	F_: Emergency STOP up to stop category 1	Author	Safety	Comment	
Family	F_FUNC	Version	1.1	User-defined ID	F_ESTOP1

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble eng- ineer- ing from HM I/O PC UA/ We b API	Visible in HMI	Set- point	Super- vision	Comment
▼ Input									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety

F_SFDOOR [FB217]

F_SFDOOR Properties

General

Name	F_SFDOOR	Number	217	Type	FB
Language	FBD	Numbering	Automatic		

Information

Title	F_: Safety door monitoring	Author	Safety	Comment	
Family	F_FUNC	Version	1.0	User-defined ID	F_SFDOOR

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble eng- ineer- ing from HM I/O PC UA/ We b API	Visible in HMI	Set- point	Super- vision	Comment
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Input 1
IN2	Bool	false	Non-retain	True	True	True	False		Input 2
QBAD_IN1	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN1
QBAD_IN2	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN2
OPEN_NEC	Bool	true	Non-retain	True	True	True	False		1=open necessary at startup
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable, safety door closed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_CTRL_1 [FB32767]

F_CTRL_1 Properties

General

Name	F_CTRL_1	Number	32767	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: Cycle Control and Mode	Author	SafeSys	Comment	
Family	F_CTRL	Version	2.2	User-defined ID	F_CTRL_1

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble eng- neer- ing from HM I/O PC UA/ We b API	Visible in HMI	Set- point	Super- vision	Comment
Input									
▼ Output									
MODE	Bool	false	Non-retain	True	True	True	False		1 = deactivated safety mode
▼ F_SYSINFO	F_SYSIN-FO		Non-retain	True	True	True	False		F-Runtime group information
MODE	Bool	false	Non-retain	True	True	True	False		1 = deactivated safety mode
TCYC_CURR	DInt	0	Non-retain	True	True	True	False		current cycle time of the F-Runtime group in ms
TCYC_LONG	DInt	0	Non-retain	True	True	True	False		longest cycle time of the F-Runtime group in ms
TRTG_CURR	DInt	0	Non-retain	True	True	True	False		current runtime of the F-Runtime group in ms
TRTG_LONG	DInt	0	Non-retain	True	True	True	False		longest runtime of the F-Runtime group in ms
T1RTG_CURR	DInt	0	Non-retain	True	True	True	False		current runtime in ms for further use
T1RTG_LONG	DInt	0	Non-retain	True	True	True	False		longest runtime in ms for further use
F_PROG_SIG	DWord	16#0	Non-retain	True	True	True	False		Collective F-signature of the safety program
▼ F_PROG_DAT	DTL	DTL#1970-01-01-00:00:00	Non-retain	True	True	True	False		Compilation date of the safety program
YEAR	UInt	1970	Non-retain	True	True	True	False		

Instrumentation Tools

Totally Integrated Automation Portal									
Name	Data type	Default value	Retain	Access- sible from HMI/OP C UA/Web API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
MONTH	USInt	1	Non-retain	True	True	True	False		
DAY	USInt	1	Non-retain	True	True	True	False		
WEEKDAY	USInt	5	Non-retain	True	True	True	False		
HOUR	USInt	0	Non-retain	True	True	True	False		
MINUTE	USInt	0	Non-retain	True	True	True	False		
SECOND	USInt	0	Non-retain	True	True	True	False		
NANOSEC- OND	UDInt	0	Non-retain	True	True	True	False		
F_RTG_SIG	DWord	16#0	Non-retain	True	True	True	False		Collective F-signa- ture of the F-Run- time group
▼ F_RTG_DAT	DTL	DTL#1970-01-01-0 0:00:00	Non-retain	True	True	True	False		Compilation date of the F-Runtime group
YEAR	UInt	1970	Non-retain	True	True	True	False		
MONTH	USInt	1	Non-retain	True	True	True	False		
DAY	USInt	1	Non-retain	True	True	True	False		
WEEKDAY	USInt	5	Non-retain	True	True	True	False		
HOUR	USInt	0	Non-retain	True	True	True	False		
MINUTE	USInt	0	Non-retain	True	True	True	False		
SECOND	USInt	0	Non-retain	True	True	True	False		
NANOSEC- OND	UDInt	0	Non-retain	True	True	True	False		
VERS_S7SAF	DWord	16#0	Non-retain	True	True	True	False		Version label of STEP 7 Safety
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_PS_IN_2_0_0_0_0_0_0_2_1_0_1_23 [FB32768]

F_PS_IN_2_0_0_0_0_0_0_2_1_0_1_23 Properties

General

Name	F_PS_IN_2_0_0_0_0_0_0_2_1_0_1_23	Number	32768	Type	FB
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Language	SCL	Numbering	Automatic
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Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble eng- ineer- ing from HM I/O PC UA/ We b API	Visible in HMI	Set- point	Super- vision	Comment
▼ Input									
PASS_ON	Bool	false	Non-retain	True	True	True	False		1=Enable passivation
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment for reintegration required
ACK_REI	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment for reintegration
IPAR_EN	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DISABLE	Bool	false	Non-retain	True	True	True	False		1=Disables F-I/O
▼ Output									
PASS_OUT	Bool	true	Non-retain	True	True	True	False		Passivation output
QBAD	Bool	true	Non-retain	True	True	True	False		1=Fail-safe values are output
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment requirement for reintegration

Instrumentation Tools

Totally Integrated Automation Portal									
Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/Web API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
IPAR_OK	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/I/O standard devices or for enabling HART communication
DIAG	Byte	16#0	Non-retain	True	True	True	False		Non-fail-safe service information
DISABLED	Bool	false	Non-retain	True	True	True	False		1=F-I/O disabled
InOut									
Static									

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]

F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 Properties

General

Name	F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23	Number	32769	Type	FB
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Language	SCL	Numbering	Automatic
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Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble from HM I/O PC UA/ We b API	Visible in HMI	Set- point	Super- vision	Comment
▼ Input									
PASS_ON	Bool	false	Non-retain	True	True	True	False		1=Enable passivation
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment for reintegration required
ACK_REI	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment for reintegration
IPAR_EN	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DISABLE	Bool	false	Non-retain	True	True	True	False		1=Disables F-I/O
▼ Output									
PASS_OUT	Bool	true	Non-retain	True	True	True	False		Passivation output
QBAD	Bool	true	Non-retain	True	True	True	False		1=Fail-safe values are output
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment requirement for reintegration

Instrumentation Tools

Totally Integrated Automation Portal									
Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/Web API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
IPAR_OK	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DIAG	Byte	16#0	Non-retain	True	True	True	False		Non-fail-safe service information
DISABLED	Bool	false	Non-retain	True	True	True	False		1=F-I/O disabled
InOut									
Static									

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_PS_SEEDPASS_RCV [FB32770]

F_PS_SEEDPASS_RCV Properties

General

Name	F_PS_SEEDPASS_RCV	Number	32770	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: Module Driver Block Receive PROFIsafe V2 + Protocol extension up to 13 Bytes	Author	SafeSys	Comment	
Family	F_DRIVER	Version	2.1	User-defined ID	F_SEPA_R

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/Web API	Wri- ta- ble from HM I/O PC UA/ Web API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_PS_SEEDPASS_SEND [FB32771]

F_PS_SEEDPASS_SEND Properties

General

Name	F_PS_SEEDPASS_SEND	Number	32771	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: Module Driver Block Send PROFI-safe V2 + Protocol extension up to 13 Bytes	Author	SafeSys	Comment	
Family	F_DRIVER	Version	2.0	User-defined ID	F_SEPA_S

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Set-point	Supervision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_8BOOL_INPUT_NC [FB32773]

F_8BOOL_INPUT_NC Properties

General

Name	F_8BOOL_INPUT_NC	Number	32773	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: Channel Driver Block 8 BOOL Input not chan- nel granular	Author	SafeSys	Comment	
Family	F_DRIVER	Version	2.0	User-defined ID	F_8BINNC

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_8BOOL_OUTPUT_NC [FB32772]

F_8BOOL_OUTPUT_NC Properties

General

Name	F_8BOOL_OUTPUT_NC	Number	32772	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: Channel Driver Block 8 BOOL Output not chan- nel granular	Author	SafeSys	Comment	
Family	F_DRIVER	Version	2.0	User-defined ID	F_8BOUNC

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FGESTOP1 [FB32774]

FGESTOP1 Properties

General

Name	FGESTOP1	Number	32774	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title		Author	Safety	Comment	
Family	F_IMAGE	Version	1.0	User-defined ID	FGESTOP1

Name	Data type	Default value	Retain	Access- sible from HMI/OP C UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FB1_C [FB32775]

FB1_C Properties

General

Name	FB1_C	Number	32775	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	FCOB

Name	Data type	Default value	Retain	Access- sible from HMI/OP C UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

DB1_C [DB30004]

DB1_C Properties

General

Name	DB1_C	Number	30004	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	FCDI

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_CTRL_D [FB32776]

F_CTRL_D Properties

General

Name	F_CTRL_D	Number	32776	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: cyclic calculation of D-signature	Author	SafeSys	Comment	
Family	F_CTRL	Version	1.2	User-defined ID	F_CTRL_D

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/Web API	Wri- ta- ble engi- neer- ing from HM I/O PC UA/ Web API	Visible in HMI	Set- point	Super- vision	Comment
Input									
▼ Output									
InD	LInt	0	Non-retain	False	False	False	False		
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FB32776_IDB_C [DB30005]

FB32776_IDB_C Properties

General

Name	FB32776_IDB_C	Number	30005	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	SafeSys	Comment	
Family	F_CTRL	Version	1.2	User-defined ID	F_CTRL_D

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
▼ Output									
InD	LInt	0	False	False	Fals e	False	False		
InOut									
Static									

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_CTRL_2 [FB32777]

F_CTRL_2 Properties

General

Name	F_CTRL_2	Number	32777	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: Test Block and Programme Run Control	Author	SafeSys	Comment	
Family	F_CTRL	Version	1.2	User-defined ID	F_CTRL_2

Name	Data type	Default value	Retain	Access- sible from HMI/OP C UA/Web API	Wri- ta- ble eng- neer- ing from HM I/O PC UA/ Web API	Visible in HMI	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FB32777_IDB_C [DB30006]

FB32777_IDB_C Properties

General

Name	FB32777_IDB_C	Number	30006	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	SafeSys	Comment	
Family	F_CTRL	Version	1.2	User-defined ID	F_CTRL_2

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_ET_LI [FB32778]

F_ET_LI Properties

General

Name	F_ET_LI	Number	32778	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: Calculation of Elapsed Time	Author	SafeSys	Comment	
Family	F_CTRL	Version	2.0	User-defined ID	F_ET_LI

Name	Data type	Default value	Retain	Access- sible from HMI/OP C UA/Web API	Wri- ta- ble eng- neer- ing from HM I/O PC UA/ Web API	Visible in HMI	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FB32778_IDB_C [DB30007]

FB32778_IDB_C Properties

General

Name	FB32778_IDB_C	Number	30007	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	SafeSys	Comment	
Family	F_CTRL	Version	2.0	User-defined ID	F_ET_LI

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_CTRL_RT [FB32779]

F_CTRL_RT Properties

General

Name	F_CTRL_RT	Number	32779	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title	F_: Measurement of current and longest runtime	Author	SafeSys	Comment	
Family	F_CTRL	Version	1.0	User-defined ID	F_CTRLRT

Name	Data type	Default value	Retain	Access- sible from HMI/OP C UA/Web API	Wri- ta- ble eng- neer- ing HM I/O PC UA/ Web API	Visible in HMI	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FB32779_IDB_C [DB30008]

FB32779_IDB_C Properties

General

Name	FB32779_IDB_C	Number	30008	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	SafeSys	Comment	
Family	F_CTRL	Version	1.0	User-defined ID	F_CTRLRT

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Safety information: CE983482 Consistent; STEP 7 Safety V16;

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FOB_GLOBAL_1 [FC32767]

FOB_GLOBAL_1 Properties

General

Name	FOB_GLOBAL_1	Number	32767	Type	FC
Language	SCL	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Comment
Input			
Output			
InOut			
▼ Return			
FOB_GLOBAL_1	Void		

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

F_JL_CORR [FC32768]

F_JL_CORR Properties

General

Name	F_JL_CORR	Number	32768	Type	FC
Language	SCL	Numbering	Automatic		

Information

Title	F_: Jmp label / Loop - global correction imple- mentation	Author	SafeSys	Comment	
Family	F_SYSINS	Version	1.0	User-defined ID	F_JLCORR

Name	Data type	Default value	Comment
▼ Input			
dnDB_NR_GCTX	DInt		
dnBIT_OFFSET_GCTX	DInt		
dnDB_LEN_GCTX	DInt		
InD_CORR	LInt		
Output			
InOut			
▼ Return			
Ret_Val	Void		

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FOB_RTG1_GCTX_DB [DB30009]

FOB_RTG1_GCTX_DB Properties

General

Name	FOB_RTG1_GCTX_DB	Number	30009	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	F_GLOBDB

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FB1_C_GCTX_DB [DB30010]

FB1_C_GCTX_DB Properties

General

Name	FB1_C_GCTX_DB	Number	30010	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	F_GLOBDB

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FGESTOP1_GCTX_DB [DB30011]

FGESTOP1_GCTX_DB Properties

General

Name	FGESTOP1_GCTX_DB	Number	30011	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	F_GLOBDB

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

SPLIT_FOB_1_1 [FC32769]

SPLIT_FOB_1_1 Properties

General

Name	SPLIT_FOB_1_1	Number	32769	Type	FC
Language	SCL	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Comment
Input			
Output			
InOut			
▼ Return			
SPLIT_FOB_1_1	Void		

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FGSFDOOR [FB32780]

FGSFDOOR Properties

General

Name	FGSFDOOR	Number	32780	Type	FB
Language	SCL	Numbering	Automatic		

Information

Title		Author	Safety	Comment	
Family	F_IMAGE	Version	1.0	User-defined ID	FGSFDOOR

Name	Data type	Default value	Retain	Access- sible from HMI/OP C UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

FGSFDOOR_GCTX_DB [DB30012]

FGSFDOOR_GCTX_DB Properties

General

Name	FGSFDOOR_GCTX_DB	Number	30012	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	F_GLOBDB

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / F-I/O data blocks

F00000_F-DI16x24VDC_1 [DB30002]

F00000_F-DI16x24VDC_1 Properties

General

Name	F00000_F-DI16x24VDC_1	Number	30002	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	FDRI

Name	Data type	Start value	Retain	Access- ible from HMI/O PC UA/We b API	Wri- ta- ble in HMI engi- neer- ing	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
▼ Input									
PASS_ON	Bool	false	False	True	True	True	False		1=Enable passivation
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment for reintegration required
ACK_REI	Bool	false	False	True	True	True	False		1=Acknowledgment for reintegration
IPAR_EN	Bool	false	False	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DISABLE	Bool	false	False	True	True	True	False		1=Disables F-I/O
▼ Output									
PASS_OUT	Bool	true	False	True	True	True	False		Passivation output
QBAD	Bool	true	False	True	True	True	False		1=Fail-safe values are output
ACK_REQ	Bool	false	False	True	True	True	False		1=Acknowledgment requirement for reintegration
IPAR_OK	Bool	false	False	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DIAG	Byte	16#0	False	True	True	True	False		Non-fail-safe service information
DISABLED	Bool	false	False	True	True	True	False		1=F-I/O disabled

Instrumentation Tools

Totally Integrated Automation Portal									
Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/Web API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
InOut									
Static									

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / F-I/O data blocks

F00009_F-DQ8x24VDC/2APPM_1 [DB30003]

F00009_F-DQ8x24VDC/2APPM_1 Properties

General

Name	F00009_F-DQ8x24VDC/2APPM_1	Number	30003	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	FDRI

Name	Data type	Start value	Retain	Access- ible from HMI/O PC UA/We b API	Wri- ta- ble from en- gineer- ing HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
▼ Input									
PASS_ON	Bool	false	False	True	True	True	False		1=Enable passivation
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment for reintegration required
ACK_REI	Bool	false	False	True	True	True	False		1=Acknowledgment for reintegration
IPAR_EN	Bool	false	False	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DISABLE	Bool	false	False	True	True	True	False		1=Disables F-I/O
▼ Output									
PASS_OUT	Bool	true	False	True	True	True	False		Passivation output
QBAD	Bool	true	False	True	True	True	False		1=Fail-safe values are output
ACK_REQ	Bool	false	False	True	True	True	False		1=Acknowledgment requirement for reintegration
IPAR_OK	Bool	false	False	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DIAG	Byte	16#0	False	True	True	True	False		Non-fail-safe service information
DISABLED	Bool	false	False	True	True	True	False		1=F-I/O disabled

Instrumentation Tools

Totally Integrated Automation Portal									
Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/Web API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
InOut									
Static									

Instrumentation Tools

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**Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Program blocks /
System blocks / STEP 7 Safety**

F-communication DBs

This folder is empty.

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN]

Technology objects






This folder is empty.

Instrumentation Tools

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Safety PLC example / PLC_1 [CPU 1515TF-2 PN]

PLC tags

PLC tags						
Icon	Name	Data type	Address	Visible in HMI engineering	Accessible from HMI/OPC UA/Web API	Comment
	ACK	Bool	%I15.0	True	True	
	E-Stop	Bool	%I0.0	True	True	
	Motor	Bool	%Q9.0	True	True	
	safety door 1	Bool	%I0.1	True	True	
	safety door 2	Bool	%I0.2	True	True	






Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / PLC tags

Default tag table [58]

PLC tags

Icon	Name	Data type	Address	Visible in HMI engineering	Accessible from HMI/OPC UA/Web API	Comment
	ACK	Bool	%I15.0	True	True	
	E-Stop	Bool	%I0.0	True	True	
	Motor	Bool	%Q9.0	True	True	
	safety door 1	Bool	%I0.1	True	True	
	safety door 2	Bool	%I0.2	True	True	

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / PLC data types / System data types

F_SYSINFO

F_SYSINFO Properties

General

Name	F_SYSINFO	Number	34	Type	UDT
Language		Numbering			

Information

Title	F_: F_SYSINFO	Author		Comment	
Family		Version		User-defined ID	

Name	Data type	Default value	Accessi- ble from HMI/OPC UA/Web API	Wri- ta- ble from HM I/O PC UA/ We b API	Visible in HMI engi- neering	Set- point	Comment
MODE	Bool	false	True	True	True	False	1 = deactivated safety mode
TCYC_CURR	DInt	0	True	True	True	False	current cycle time of the F-Run- time group in ms
TCYC_LONG	DInt	0	True	True	True	False	longest cycle time of the F-Run- time group in ms
TRTG_CURR	DInt	0	True	True	True	False	current runtime of the F-Runtime group in ms
TRTG_LONG	DInt	0	True	True	True	False	longest runtime of the F-Runtime group in ms
T1RTG_CURR	DInt	0	True	True	True	False	current runtime in ms for further use
T1RTG_LONG	DInt	0	True	True	True	False	longest runtime in ms for further use
F_PROG_SIG	DWord	16#0	True	True	True	False	Collective F-signature of the safety program
▼ F_PROG_DAT	DTL	DTL#1970-01-01-0 0:00:00	True	True	True	False	Compilation date of the safety program
YEAR	UInt	1970	True	True	True	False	
MONTH	USInt	1	True	True	True	False	
DAY	USInt	1	True	True	True	False	
WEEKDAY	USInt	5	True	True	True	False	
HOUR	USInt	0	True	True	True	False	
MINUTE	USInt	0	True	True	True	False	
SECOND	USInt	0	True	True	True	False	
NANOSECOND	UDInt	0	True	True	True	False	

Instrumentation Tools

Totally Integrated Automation Portal							
Name	Data type	Default value	Accessi-ble from HMI/OPC UA/Web API	Wri-ta-ble from HM I/O PC UA/We b API	Visible in HMI engi-neer-ing	Set-point	Comment
F_RTG_SIG	DWord	16#0	True	True	True	False	Collective F-signature of the F- Runtime group
▼ F_RTG_DAT	DTL	DTL#1970-01-01-00:00:00	True	True	True	False	Compilation date of the F-Run-time group
YEAR	UInt	1970	True	True	True	False	
MONTH	USInt	1	True	True	True	False	
DAY	USInt	1	True	True	True	False	
WEEKDAY	USInt	5	True	True	True	False	
HOURL	USInt	0	True	True	True	False	
MINUTE	USInt	0	True	True	True	False	
SECOND	USInt	0	True	True	True	False	
NANOSECOND	UDInt	0	True	True	True	False	
VERS_S7SAF	DWord	16#0	True	True	True	False	Version label of STEP 7 Safety

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Watch and force tables

Force table

Name	Address	Display format	Force value	Comment
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Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN]

Traces

Name

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Traces

Measurements

This folder is empty.

Instrumentation Tools

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Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Traces

Combined measurements

Name

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / OPC UA communication

Server interfaces

This folder is empty.

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / OPC UA communication

Client interfaces

This folder is empty.

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / PLC supervisions & alarms

Supervisions

This folder is empty.

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / PLC supervisions & alarms

PLC alarms

PLC alarms

No entries



Instrumentation Tools

Totally Integrated
Automation Portal




Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / PLC supervisions & alarms

System alarms



System alarms

Name	 SDIAG_ALCAT_SUBMODUL_MSG_0002
Type	PLC alarm
ID	1
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	2/16/2023 11:30 AM
Last change	2/16/2023 11:30 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	 SDIAG_ALCAT_MODUL_MSG_0003
Type	PLC alarm
ID	2
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	2/16/2023 11:30 AM
Last change	2/16/2023 11:30 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	



Instrumentation Tools

Totally Integrated Automation Portal		
Name	 SDIAG_ALCAT_RACK_MSG_0004	
Type	PLC alarm	
ID	3	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_DEVICE_MSG_0005	
Type	PLC alarm	
ID	4	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_IOSYSTEM_MSG_0006	
Type	PLC alarm	
ID	5	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	




Instrumentation Tools

Totally Integrated Automation Portal		
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_OST_MSG_000D	
Type	PLC alarm	
ID	6	
Location	PLC_1	
Alarm text	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_INFO_MSG_000F	
Type	PLC alarm	
ID	7	
Location	PLC_1	
Alarm text	CPU info: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	



Instrumentation Tools

Totally Integrated Automation Portal		
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_ERR_MSG_0010	
Type	PLC alarm	
ID	8	
Location	PLC_1	
Alarm text	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_MD_MSG_0011	
Type	PLC alarm	
ID	9	
Location	PLC_1	
Alarm text	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		



Instrumentation Tools

Totally Integrated Automation Portal		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_MR_MSG1_0012	
Type	PLC alarm	
ID	10	
Location	PLC_1	
Alarm text	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_TMPERR_MSG_0013	
Type	PLC alarm	
ID	11	
Location	PLC_1	
Alarm text	Temporary CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CH_ERR_MSG_0015	
Type	PLC alarm	
ID	12	



Instrumentation Tools

Totally Integrated Automation Portal		
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ECH_ERR_MSG_0016	
Type	PLC alarm	
ID	13	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CH_MD_MSG_0018	
Type	PLC alarm	
ID	14	
Location	PLC_1	
Alarm text	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	




Instrumentation Tools

Totally Integrated Automation Portal		
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ECH_MD_MSG_0019	
Type	PLC alarm	
ID	15	
Location	PLC_1	
Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CH_MR_MSG_001B	
Type	PLC alarm	
ID	16	
Location	PLC_1	
Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	



Instrumentation Tools

Totally Integrated Automation Portal		
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ECH_MR_MSG_001C	
Type	PLC alarm	
ID	17	
Location	PLC_1	
Alarm text	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUB_ERR_MSG_001E	
Type	PLC alarm	
ID	18	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		



Instrumentation Tools

Totally Integrated Automation Portal		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ESUB_ERR_MSG_001F	
Type	PLC alarm	
ID	19	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUB_MD_MSG_0021	
Type	PLC alarm	
ID	20	
Location	PLC_1	
Alarm text	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ESUB_MD_MSG_0022	
Type	PLC alarm	
ID	21	
Location	PLC_1	



Instrumentation Tools

Totally Integrated Automation Portal		
Alarm text	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUB_MR_MSG_0024	
Type	PLC alarm	
ID	22	
Location	PLC_1	
Alarm text	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ESUB_MR_MSG_0025	
Type	PLC alarm	
ID	23	
Location	PLC_1	
Alarm text	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	




Instrumentation Tools

Totally Integrated Automation Portal		
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CONFIG_INFO_0028	
Type	PLC alarm	
ID	24	
Location	PLC_1	
Alarm text	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CONFIG_REPORT_0029	
Type	PLC alarm	
ID	25	
Location	PLC_1	
Alarm text	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		



Instrumentation Tools

Totally Integrated Automation Portal		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SECU_EV_MSG_005E	
Type	PLC alarm	
ID	26	
Location	PLC_1	
Alarm text	Security event: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	Security	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SECU_EV_INFO_005F	
Type	PLC alarm	
ID	27	
Location	PLC_1	
Alarm text	Security information: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	Security	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		



Instrumentation Tools

Totally Integrated Automation Portal		
Name	 SDIAG_ALCAT_USER_MSG_0080	
Type	PLC alarm	
ID	28	
Location	PLC_1	
Alarm text	User message: @1W%t#2W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_PLC_MSG_00FF	
Type	PLC alarm	
ID	29	
Location	PLC_1	
Alarm text	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUBMODUL_MSG_0102	
Type	PLC alarm	
ID	30	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	




Instrumentation Tools

Totally Integrated Automation Portal		
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_MODUL_MSG_0103	
Type	PLC alarm	
ID	31	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_RACK_MSG_0104	
Type	PLC alarm	
ID	32	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	



Instrumentation Tools

Totally Integrated Automation Portal		
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_DEVICE_MSG_0105	
Type	PLC alarm	
ID	33	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_IOSYSTEM_MSG_0106	
Type	PLC alarm	
ID	34	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		



Instrumentation Tools

Totally Integrated Automation Portal		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_OST_MSG_010D	
Type	PLC alarm	
ID	35	
Location	PLC_1	
Alarm text	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_ERR_MSG_0110	
Type	PLC alarm	
ID	36	
Location	PLC_1	
Alarm text	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_MD_MSG_0111	
Type	PLC alarm	
ID	37	
Location	PLC_1	



Instrumentation Tools

Totally Integrated Automation Portal		
Alarm text	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_MR_MSG1_0112	
Type	PLC alarm	
ID	38	
Location	PLC_1	
Alarm text	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CH_ERR_MSG_0115	
Type	PLC alarm	
ID	39	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@ @6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	




Instrumentation Tools

Totally Integrated Automation Portal		
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ECH_ERR_MSG_0116	
Type	PLC alarm	
ID	40	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CH_MD_MSG_0118	
Type	PLC alarm	
ID	41	
Location	PLC_1	
Alarm text	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		



Instrumentation Tools

Totally Integrated Automation Portal		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ECH_MD_MSG_0119	
Type	PLC alarm	
ID	42	
Location	PLC_1	
Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CH_MR_MSG_011B	
Type	PLC alarm	
ID	43	
Location	PLC_1	
Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		



Instrumentation Tools

Totally Integrated Automation Portal		
Additional text 9		
Name	 SDIAG_ALCAT_ECH_MR_MSG_011C	
Type	PLC alarm	
ID	44	
Location	PLC_1	
Alarm text	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUB_ERR_MSG_011E	
Type	PLC alarm	
ID	45	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ESUB_ERR_MSG_011F	
Type	PLC alarm	
ID	46	
Location	PLC_1	



Instrumentation Tools

Totally Integrated Automation Portal		
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUB_MD_MSG_0121	
Type	PLC alarm	
ID	47	
Location	PLC_1	
Alarm text	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ESUB_MD_MSG_0122	
Type	PLC alarm	
ID	48	
Location	PLC_1	
Alarm text	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	

Instrumentation Tools

Totally Integrated Automation Portal		
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUB_MR_MSG_0124	
Type	PLC alarm	
ID	49	
Location	PLC_1	
Alarm text	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ESUB_MR_MSG_0125	
Type	PLC alarm	
ID	50	
Location	PLC_1	
Alarm text	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		

Instrumentation Tools

Totally Integrated Automation Portal		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CONFIG_INFO_0128	
Type	PLC alarm	
ID	51	
Location	PLC_1	
Alarm text	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_PLC_MSG_01FF	
Type	PLC alarm	
ID	52	
Location	PLC_1	
Alarm text	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN]

PLC alarm text lists

This folder is empty.

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Local modules

PLC_1 [CPU 1515TF-2 PN]

PLC_1

General\Project information

Name	PLC_1	Author	PLC Traning
Comment		Rack	0
Slot	1		

General\Catalog information

Short designation	CPU 1515TF-2 PN	Description	Fail-safe technology CPU with display; work memory 750 KB code and 3 MB data; can be used for safety applications; supports PROFIsafe V2; 30 ns bit operation time; 5-stage protection concept, technology functions: extended motion control, closed-loop control, counting and measuring; tracing; Runtime options; isochronous mode (central); for all PROFINET interfaces: transport protocol TCP/IP, secure Open User Communication, S7 communication, S7 routing, IP forwarding, Web server, DNS client, OPC UA: Server DA, Client DA, methods, companion specifications; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-Device, MRP, MRPD, isochronous mode; 2nd interface: PROFINET IO controller, supports RT, I-Device; firmware V2.8
Article number	6ES7 515-2UM01-0AB0	Firmware version	V2.8

General\Identification & Maintenance

Plant designation		Location identifier	
Installation date	2023-02-12 12:56:35.524	Additional information	

General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	BC 3B 30 88 D3 B6 6D 91
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Fail-safe\F-activation

F-capability activated	1	
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Fail-safe\F-parameters

Central F-source address	1		Default F-monitoring time for central F-I/O	150ms	
--------------------------	---	---	---	-------	---


Fail-safe\F-parameters\F-destination address range for PROFIsafe address type 1

Low limit for F-destination addresses	1		High limit for F-destination addresses	99	
---------------------------------------	---	---	--	----	---

PROFINET interface [X1]\General

Name	PROFINET interface_1	Author	PLC Traning
Comment			

PROFINET interface [X1]\F-parameters

Default F-monitoring time for F-I/O of this interface	150ms	
---	-------	---


PROFINET interface [X1]\Ethernet addresses\Interface networked with

Subnet:	Not connected
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
PROFINET interface [X1]\Ethernet addresses\IP protocol

IP configuration	Set IP address in the project	IP address:	192.168.0.1
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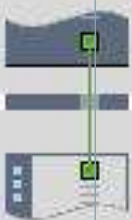
Instrumentation Tools

Totally Integrated Automation Portal			
Subnet mask:	255.255.255.0	Use router	False
PROFINET interface [X1]\Ethernet addresses\PROFINET			
PROFINET device name is set directly at the device	False	Generate PROFINET device name automatically	True
PROFINET device name:	plc_1.profinet interface_1	Converted name:	plcxb1.profinetxainterfacexb1036c
Device number:	0		
PROFINET interface [X1]\Time-of-day synchronization\NTP mode			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].		
	IP addresses	Enable time synchronization via NTP server	False
Server 2	0.0.0.0	Server 1	0.0.0.0
Server 4	0.0.0.0	Server 3	0.0.0.0
		Update interval	10s
PROFINET interface [X1]\Operating mode			
IO controller	True	IO system	
Device number	0	IO device	False
PROFINET interface [X1]\Advanced options\Interface options			
Call the user program if communication errors occur	False	Support device replacement without exchangeable medium	True
Permit overwriting of device names of all assigned IO devices	False	Limit data infeed into the network	True
Use IEC V2.2 LLDP mode	False	Keep-Alive connection monitoring:	30s
PROFINET interface [X1]\Advanced options\Real time settings\IO communication			
Send clock:	4.000ms		
PROFINET interface [X1]\Advanced options\Real time settings\Synchronization			
RT class:	RT,IRT		
PROFINET interface [X1]\Advanced options\Real time settings\Real time options			
Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General			
Name	Port_1	Author	PLC Traning
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	Medium:	Copper
Cable name:	---		
			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	Alternative partners	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Activate			
Activate this port for use	True		

Instrumentation Tools

Totally Integrated Automation Portal			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	Monitor	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Boundaries			
End of detection of accessible devices	False	End of topology discovery	False
End of the sync domain	False		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\General			
Name	Port_2	Author	PLC Traning
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_2 [X1 P2 R]	Medium:	Copper
Cable name:	---		
			
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	Alternative partners	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	Monitor	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries			
End of detection of accessible devices	False	End of topology discovery	False
End of the sync domain	False		
PROFINET interface [X1]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	Enable Web server via IP address of this interface	False
PROFINET interface [X2]\General			
Name	PROFINET interface_2	Author	PLC Traning
Comment			
PROFINET interface [X2]\F-parameters			
Default F-monitoring time for F-I/O of this interface	150ms		
PROFINET interface [X2]\Ethernet addresses\Interface networked with			
Subnet:	Not connected		
PROFINET interface [X2]\Ethernet addresses\IP protocol			
IP configuration	Set IP address in the project	IP address:	192.168.1.1
Subnet mask:	255.255.255.0	Use router	False


Instrumentation Tools

Totally Integrated Automation Portal			
PROFINET interface [X2]\Ethernet addresses\PROFINET			
PROFINET device name is set directly at the device	False	Generate PROFINET device name automatically	True
PROFINET device name:	plc_1.profinet interface_2	Converted name:	plcxb1.profinetxainterfacexb2022c
Device number:	0		
PROFINET interface [X2]\Time-of-day synchronization\NTP mode			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].		
	IP addresses	Enable time synchronization via NTP server	False
Server 2	0.0.0.0	Server 1	0.0.0.0
Server 4	0.0.0.0	Server 3	0.0.0.0
		Update interval	10s
PROFINET interface [X2]\Operating mode			
IO controller	True	IO system	
Device number	0	IO device	False
PROFINET interface [X2]\Advanced options\Interface options			
Call the user program if communication errors occur	False	Support device replacement without exchangeable medium	True
Permit overwriting of device names of all assigned IO devices	False	Limit data infeed into the network	False
Use IEC V2.2 LLDP mode	False	Keep-Alive connection monitoring:	30s
PROFINET interface [X2]\Advanced options\Real time settings\IO communication			
Send clock:	1.000ms		
PROFINET interface [X2]\Advanced options\Real time settings\Real time options			
Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%
PROFINET interface [X2]\Advanced options\Port [X2 P1]\General			
Name	Port_1	Author	PLC Training
Comment			
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_2 [X2]\Port_1 [X2 P1]	Medium:	Copper
Cable name:	---		
			
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	Alternative partners	False
Partner port:	Any partner		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Connection			
Transmission rate / duplex:	Automatic	Monitor	False

Instrumentation Tools

Totally Integrated Automation Portal					
<div>Enable autonegotiation</div> <div>True</div>					
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries					
End of detection of accessible devices		False		End of topology discovery	
End of the sync domain		False			
PROFINET interface [X2]\Web server access					
Note		The Web server must also be activated in the properties of the PLC.		Enable Web server via IP address of this interface	
				False	
Startup					
Startup after POWER ON		Warm restart - Operating mode before POWER OFF		Comparison preset to actual configuration	
				Startup CPU even if mismatch	
Configuration time		60000ms			
Cycle					
Maximum cycle time		150ms			
Enable minimum cycle time for cyclic OBs		True		Minimum cycle time	
				1ms	
Communication load					
Cycle load due to communication		20%			
System and clock memory\System memory bits					
Enable the use of system memory byte		False		Address of system memory byte (MBx)	
First cycle				Diagnostic status changed	
Always 1 (high)				Always 0 (low)	
System and clock memory\Clock memory bits					
Enable the use of clock memory byte		False		Address of clock memory byte (MBx)	
10 Hz clock				5 Hz clock	
2.5 Hz clock				2 Hz clock	
1.25 Hz clock				1 Hz clock	
0.625 Hz clock				0.5 Hz clock	
SIMATIC Memory Card\Diagnostics					
Aging of the SIMATIC memory card		False		Threshold value	
				80%	
System diagnostics\General					
Activate system diagnostics for this device		True		Report network faults as maintenance instead of fault	
				False	
PLC alarms\General					
Central alarm management in the PLC		True			
Web server\General					
Activate web server on this module		False		Permit access only with HTTPS	
				True	
Web server\Automatic update					
Enable automatic update		True		Update interval	
				0s	
Web server\User management					
User name			User rights		
Everybody					
Web server\User-defined web pages					
Application name	HTML source path	Default HTML page	Files with dynamic content	Web DB number	Fragment DB number
		index.htm	.htm;.html	333	334

Instrumentation Tools

Totally Integrated Automation Portal				
Web server\Overview of interfaces				
Device	Interface		Enabled web server access	
PLC_1	PROFINET interface_1		False	
PLC_1	PROFINET interface_2		False	
Display\General\Display standby mode				
Time to standby mode	30 minutes			
Display\General\Energy saving mode				
Time to energy saving mode	15 minutes			
Display\General\Display language				
Default language on display	English			
Display\Automatic update				
Time to update	5 seconds			
Display\Password\Display protection				
Enable write access	True		Enable display protection	False
Display\User-defined logo				
User logo activated	False		Adapt logo	False
Resolution	240x260		Company logo	---
User interface languages				
Assign project language		User interface languages		
English (United States)		German		
English (United States)		English		
English (United States)		French		
English (United States)		Spanish		
English (United States)		Italian		
English (United States)		Japanese		
English (United States)		Chinese (simplified)		
English (United States)		Korean		
English (United States)		Russian		
English (United States)		Turkish		
English (United States)		Portuguese (Brazil)		
Time of day\Local time				
Time zone	(UTC) Dublin, Edinburgh, Lisbon, London			
Time of day\Daylight saving time				
Activate daylight saving time	True		Difference between standard and daylight saving time	60mins
Time of day\Daylight saving time\Start of daylight saving time				
Selection of the week of	Last		Selection of the week-day at	Sunday
	March			01:00 a.m.
Time of day\Daylight saving time\Start of standard time				
Selection of the week of	Last		Selection of the week-day at	Sunday
	October			02:00 a.m.
Protection				
Level of protection	Full access with fail-safe (no protection)			
Protection\Connection mechanisms				
Permit access with PUT/GET communication from remote partner	False			

Instrumentation Tools

Totally Integrated Automation Portal					
Protection\Security event					
Summarize security events in case of high message volume	True	Length of an interval	20		
Unit	seconds				
OPC UA\Accessibility of the server					
Activate OPC UA server	False				
System power supply\General					
General	Connection to supply voltage L+				
System power supply\Power segment overview					
Module	Slot	Supply/consumption			
PLC_1	1	12.00W			
F-DI 16x24V DC_1	2	-0.90W			
F-DQ 8x24V DC/2A PPM_1	3	-0.80W			
DI 16x24VDC BA_1	4	-1.05W			
	Summary	9.25W			
Advanced configuration\DNS configuration					
No DNS server address is configured.					
Advanced configuration\IP Forwarding\Configuration IPv4 Forwarding					
Enable IPv4 forwarding for interfaces of this PLC	False				
Advanced configuration\Configuration control\Configuration control for central configuration					
Allow reconfiguration of device via the user program	False				
Connection resources\					
	Station resources - Reserved - Maximum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - PLC_1 [CPU 1515TF-2 PN] - Configured	
Maximum number of resources:		10	98	108	
	Maximum	Configured	Configured	Configured	
PG communication:	4	-	-	-	
HMI communication:	4	0	0	0	
S7 communication:	0	-	0	0	
Open user communication:	0	-	0	0	
Web communication:	2	-	-	-	
OPC UA client/server communication:	0	-	-	-	
Other communication:	-	-	0	0	
Total resources used:		0	0	0	
Available resources:		10	98	108	
Overview of addresses\Overview of addresses\Overview of addresses					
Inputs	True	Outputs	True		
Address gaps	False	Slot	True		

Instrumentation Tools

Totally Integrated Automation Portal							
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Type	I	Addr. from	0	Addr. to	8	Module	F-DI 16x24V DC_1
PIP	-	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	9 Bytes	Master / IO-system	-	Rack	0	Slot	2
Type	O	Addr. from	0	Addr. to	4	Module	F-DI 16x24V DC_1
PIP	-	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	5 Bytes	Master / IO-system	-	Rack	0	Slot	2
Type	I	Addr. from	9	Addr. to	14	Module	F-DQ 8x24V DC/2A PPM_1
PIP	-	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	6 Bytes	Master / IO-system	-	Rack	0	Slot	3
Type	O	Addr. from	9	Addr. to	14	Module	F-DQ 8x24V DC/2A PPM_1
PIP	-	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	6 Bytes	Master / IO-system	-	Rack	0	Slot	3
Type	I	Addr. from	15	Addr. to	16	Module	DI 16x24VDC BA_1
PIP	Automatic update	OB	-	Device name	PLC_1 [CPU 1515TF-2 PN]	Device number	-
Size	2 Bytes	Master / IO-system	-	Rack	0	Slot	4

Runtime licenses\OPC UA\Runtime licenses			
Type of required license	None	Type of purchased license	No license

Runtime licenses\ProDiag\Supervisions			
Number of used supervisions	0		

Runtime licenses\ProDiag\Runtime licenses			
Number of required licenses	None (<= 25 supervisions)	Used ProDiag licenses	No license

Runtime licenses\Energy Suite\Energy objects			
Number of configured energy objects	0		

Runtime licenses\Energy Suite\Runtime licenses			
Total number of licensed energy objects	0		

Runtime licenses\Energy Suite\Runtime licenses\Number of purchased licenses			
License type '5 energy objects'	No license	License type '10 energy objects'	No license

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Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Local modules

F-DI 16x24V DC_1

F-DI 16x24V DC_1

General\Project information

Name	F-DI 16x24V DC_1	Author	PLC Training
Comment		Rack	0
Slot	2		

General\Catalog information

Short designation	F-DI 16x24V DC	Description	Digital input module DI 16x24VDC, PROFIsafe V2, fail-safe
Article number	6ES7 526-1BH00-0AB0	Firmware version	V1.0

General\Identification & Maintenance

Plant designation		Location identifier	
Installation date	2023-02-16 08:18:38.432	Additional information	















Module parameters\General\Startup

Comparison preset to actual module	From CPU		
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Inputs 0 - 15\General

Name	F-DI 16x24V DC_1	Comment	
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Inputs 0 - 15\F-parameters

Manual assignment of F-monitoring time	False		F-monitoring time	150ms	
F-source address	1		F-destination address	65534	
F-parameter signature (with addresses)	55940		F-parameter signature (without addresses)	49479	
Behavior after channel fault	Passivate channel		Reintegration after channel fault	All channels manually	
RIOforFA safety	Yes		PROFIsafe mode	V2 mode	
PROFIsafe protocol version	Expanded protocol (XP)		F-I/O DB manual number assignment	Automatic	
F-I/O DB-number	30002		F-I/O DB-name	F00000_F-DI16x24VDC_1	





Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 0

Supplied channels	Channels [0...3]		Short-circuit test activated	Yes	
Time for short-circuit test	4.2ms		Startup time of sensor after short-circuit test	4.2ms	




Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 1

Supplied channels	Channels [4...7]		Short-circuit test activated	Yes	
Time for short-circuit test	4.2ms		Startup time of sensor after short-circuit test	4.2ms	

Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 2

Supplied channels	Channels [8...11]		Short-circuit test activated	Yes	
Time for short-circuit test	4.2ms		Startup time of sensor after short-circuit test	4.2ms	


















































Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 3

Supplied channels	Channels [12...15]		Short-circuit test activated	Yes	
Time for short-circuit test	4.2ms		Startup time of sensor after short-circuit test	4.2ms	


















































Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8

Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior	Supply value 0	
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











































Instrumentation Tools

Totally Integrated Automation Portal					
Discrepancy time	5ms		Reintegration after discrepancy error	Test 0-Signal not necessary	
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 0\Input parameters					
Channel activated	Yes		Input delay	3.2ms	
Channel failure acknowledge	Manual		Pulse extension	---sec	
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 0\Chatter monitoring					
Chatter monitoring	No		Number of signal changes	5	
Monitoring window	2sec				
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 8\Input parameters					
Channel activated	Yes		Input delay	3.2ms	
Channel failure acknowledge	Manual		Pulse extension	---sec	
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 8\Chatter monitoring					
Chatter monitoring	No		Number of signal changes	5	
Monitoring window	2sec				
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9					
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior	Supply value 0	
Discrepancy time	5ms		Reintegration after discrepancy error	Test 0-Signal not necessary	
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 1\Input parameters					
Channel activated	Yes		Input delay	3.2ms	
Channel failure acknowledge	Manual		Pulse extension	---sec	
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 1\Chatter monitoring					
Chatter monitoring	No		Number of signal changes	5	
Monitoring window	2sec				
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 9\Input parameters					
Channel activated	Yes		Input delay	3.2ms	
Channel failure acknowledge	Manual		Pulse extension	---sec	
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 9\Chatter monitoring					
Chatter monitoring	No		Number of signal changes	5	
Monitoring window	2sec				
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10					
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior	Supply value 0	
Discrepancy time	5ms		Reintegration after discrepancy error	Test 0-Signal not necessary	
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 2\Input parameters					
Channel activated	Yes		Input delay	3.2ms	
Channel failure acknowledge	Manual		Pulse extension	---sec	
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 2\Chatter monitoring					
Chatter monitoring	No		Number of signal changes	5	
Monitoring window	2sec				
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 10\Input parameters					
Channel activated	Yes		Input delay	3.2ms	
Channel failure acknowledge	Manual		Pulse extension	---sec	

Instrumentation Tools

Totally Integrated Automation Portal			
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 10\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0 
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary 
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 3\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 3\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 11\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 11\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0 
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary 
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 4\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 4\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 12\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 12\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0 
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary 
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 5\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 5\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 

Instrumentation Tools

Totally Integrated Automation Portal			
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 13\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 13\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0 
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary 
Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14\Channel 6\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14\Channel 6\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14\Channel 14\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14\Channel 14\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0 
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary 
Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15\Channel 7\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15\Channel 7\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15\Channel 15\Input parameters			
Channel activated	Yes		Input delay 3.2ms 
Channel failure acknowledge	Manual		Pulse extension ---sec 
Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15\Channel 15\Chatter monitoring			
Chatter monitoring	No		Number of signal changes 5 
Monitoring window	2sec		
Inputs 0 - 15\I/O addresses\Input addresses			
Start address	0.0	End address	8.7
Organization block	33024	Process image	33024
Inputs 0 - 15\I/O addresses\Output addresses			
Start address	0.0	End address	4.7

Instrumentation Tools

Totally Integrated Automation Portal					
Organization block	33024	Process image	33024		

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Local modules

F-DQ 8x24V DC/2A PPM_1

F-DQ 8x24V DC/2A PPM_1

General\Project information

Name	F-DQ 8x24V DC/2A PPM_1	Author	PLC Training
Comment		Rack	0
Slot	3		

General\Catalog information

Short designation	F-DQ 8x24V DC/2A PPM	Description	Digital output module DQ 8x24VDC/2A PPM, PROFIsafe V2, fail-safe
Article number	6ES7 526-2BF00-0AB0	Firmware version	V1.0

General\Identification & Maintenance

Plant designation		Location identifier	
Installation date	2023-02-16 08:56:43.377	Additional information	















Module parameters\General\Startup

Comparison preset to actual module	From CPU		
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Outputs 0 - 7\General

Name	F-DQ 8x24V DC/2A PPM_1	Comment	
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Outputs 0 - 7\F-parameters

Manual assignment of F-monitoring time	False		F-monitoring time	150ms	
F-source address	1		F-destination address	65533	
F-parameter signature (with addresses)	19032		F-parameter signature (without addresses)	4277	
Behavior after channel fault	Passivate channel		Reintegration after channel fault	All channels manually	
RIOforFA safety	Yes		PROFIsafe mode	V2 mode	
PROFIsafe protocol version	Expanded protocol (XP)		F-I/O DB manual number assignment	Automatic	
F-I/O DB-number	30003		F-I/O DB-name	F00009_F-DQ8x24VDC/2APPM_1	

Outputs 0 - 7\Outputs\Operating mode

Maximum test period	1000sec		Operating mode of the output	PM-switching mode	
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Outputs 0 - 7\Outputs\Channel 0\Diagnostics

Wire break	No				
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Outputs 0 - 7\Outputs\Channel 0\Output parameters

Channel activated	Yes		Channel failure acknowledge	Manual	
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Outputs 0 - 7\Outputs\Channel 0\Monitoring parameters

Max. readback time dark test	1.0ms		Disable dark test for 48 hours	No	
Max. readback time switch on test	0.8ms		Activated light test	No	

Outputs 0 - 7\Outputs\Channel 1\Diagnostics

Wire break	No				
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



























Outputs 0 - 7\Outputs\Channel 1\Output parameters

Channel activated	Yes		Channel failure acknowledge	Manual	
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Outputs 0 - 7\Outputs\Channel 1\Monitoring parameters

Max. readback time dark test	1.0ms		Disable dark test for 48 hours	No	
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Instrumentation Tools

Totally Integrated Automation Portal					
Max. readback time switch on test	0.8ms		Activated light test	No	
Outputs 0 - 7\Outputs\Channel 2\Diagnostics					
Wire break	No				
Outputs 0 - 7\Outputs\Channel 2\Output parameters					
Channel activated	Yes		Channel failure acknowledge	Manual	
Outputs 0 - 7\Outputs\Channel 2\Monitoring parameters					
Max. readback time dark test	1.0ms		Disable dark test for 48 hours	No	
Max. readback time switch on test	0.8ms		Activated light test	No	
Outputs 0 - 7\Outputs\Channel 3\Diagnostics					
Wire break	No				
Outputs 0 - 7\Outputs\Channel 3\Output parameters					
Channel activated	Yes		Channel failure acknowledge	Manual	
Outputs 0 - 7\Outputs\Channel 3\Monitoring parameters					
Max. readback time dark test	1.0ms		Disable dark test for 48 hours	No	
Max. readback time switch on test	0.8ms		Activated light test	No	
Outputs 0 - 7\Outputs\Channel 4\Diagnostics					
Wire break	No				
Outputs 0 - 7\Outputs\Channel 4\Output parameters					
Channel activated	Yes		Channel failure acknowledge	Manual	
Outputs 0 - 7\Outputs\Channel 4\Monitoring parameters					
Max. readback time dark test	1.0ms		Disable dark test for 48 hours	No	
Max. readback time switch on test	0.8ms		Activated light test	No	
Outputs 0 - 7\Outputs\Channel 5\Diagnostics					
Wire break	No				
Outputs 0 - 7\Outputs\Channel 5\Output parameters					
Channel activated	Yes		Channel failure acknowledge	Manual	
Outputs 0 - 7\Outputs\Channel 5\Monitoring parameters					
Max. readback time dark test	1.0ms		Disable dark test for 48 hours	No	
Max. readback time switch on test	0.8ms		Activated light test	No	
Outputs 0 - 7\Outputs\Channel 6\Diagnostics					
Wire break	No				
Outputs 0 - 7\Outputs\Channel 6\Output parameters					
Channel activated	Yes		Channel failure acknowledge	Manual	
Outputs 0 - 7\Outputs\Channel 6\Monitoring parameters					
Max. readback time dark test	1.0ms		Disable dark test for 48 hours	No	
Max. readback time switch on test	0.8ms		Activated light test	No	
Outputs 0 - 7\Outputs\Channel 7\Diagnostics					
Wire break	No				
Outputs 0 - 7\Outputs\Channel 7\Output parameters					
Channel activated	Yes		Channel failure acknowledge	Manual	

Instrumentation Tools

Totally Integrated Automation Portal		
Outputs 0 - 7\Outputs\Channel 7\Monitoring parameters		
Max. readback time dark test	1.0ms	Disable dark test for 48 hoursNo
Max. readback time switch on test	0.8ms	Activated light testNo
Outputs 0 - 7\I/O addresses\Input addresses		
Start address	9.0	End address14.7
Organization block	33024	Process image33024
Outputs 0 - 7\I/O addresses\Output addresses		
Start address	9.0	End address14.7
Organization block	33024	Process image33024

Instrumentation Tools

Totally Integrated
Automation Portal

Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Local modules

DI 16x24VDC BA_1

DI 16x24VDC BA_1			
General\Project information			
Name	DI 16x24VDC BA_1	Author	PLC Traning
Comment		Rack	0
Slot	4		
General\Catalog information			
Short designation	DI 16x24VDC BA	Description	Digital input module DI16 x 24VDC; grouping 16; input delay 3.2ms; input type 3 (IEC 61131)
Article number	6ES7 521-1BH10-0AA0	Firmware version	V1.1
General\Identification & Maintenance			
Plant designation		Location identifier	
Installation date	2023-02-16 09:35:21.656	Additional information	
Module parameters\General\Startup			
Comparison preset to actual module	From CPU		
Module parameters\DI Configuration\Configuration of submodules			
Module distribution	None		
Module parameters\DI Configuration\Value status (Quality Information)			
Value status	False		
Module parameters\DI Configuration\Copy of module for Shared Device (MSI)			
Copy of module:	None		
Input 0 - 15\General			
Name	DI 16x24VDC BA_1	Comment	
Input 0 - 15\Inputs\General\Module failure			
Input values with module failure	Input value 0		
Input 0 - 15\I/O addresses\Input addresses			
Start address	15.0	End address	16.7
Organization block	0	Process image	0

Instrumentation Tools

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Safety PLC example

Ungrouped devices

This folder is empty.

Instrumentation Tools

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Safety PLC example

Security settings

This folder is empty.

Instrumentation Tools

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Safety PLC example / Cross-device functions / Project traces

Measurements

This folder is empty.

Instrumentation Tools

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Safety PLC example / Common data

Alarm classes

Alarm classes

Name	Acknowledgement
Display name	A
Acknowledgment	True
Priority	0
Name	No Acknowledgement
Display name	NA
Acknowledgment	False
Priority	0





Instrumentation Tools

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Safety PLC example / Common data / Logs

F-change history PLC_1 2023-02-12 15:00:10

F-change history PLC_1 2023-02-12 15:00:10

!	Message	Date	Time	User
	F-activation for the CPU PLC_1 was disabled	2/12/2023	3:00:10 PM	DESKTOP-O4DT62G \\PLC Traning
	F-activation for the CPU PLC_1 was disabled	2/12/2023	3:00:10 PM	DESKTOP-O4DT62G \\PLC Traning
	F-activation for the CPU PLC_1 was enabled	2/12/2023	3:00:12 PM	DESKTOP-O4DT62G \\PLC Traning
	F-activation for the CPU PLC_1 was enabled	2/12/2023	3:00:12 PM	DESKTOP-O4DT62G \\PLC Traning

Instrumentation Tools

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Automation Portal

Safety PLC example / Languages & resources

Project languages

Languages

Reference language

English (United States)

Editing language

English (United States)

Other project languages

Empty

Safety PLC example / Languages & resources / Project texts

Project texts

Project texts	
English (United States)	
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGESTOP1 [FB32774]\Block comment
English (United States)	
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGSFDOOR [FB32780]\Block comment
English (United States)	"Main Program Sweep (Cycle)"
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\Main [OB1]\Block title
English (United States)	1=Acknowledgment for reintegration
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\ACK_REI
English (United States)	1=Acknowledgment for reintegration
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\ACK_REI
English (United States)	1=Acknowledgment for reintegration required
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\ACK_NEC
English (United States)	1=Acknowledgment for reintegration required
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\ACK_NEC
English (United States)	1=Acknowledgment requirement for reintegration
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\ACK_REQ
English (United States)	1=Acknowledgment requirement for reintegration
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\ACK_REQ
English (United States)	1=Disables F-I/O
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\DISABLE
English (United States)	1=Disables F-I/O
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\DISABLE
English (United States)	1=Enable passivation
Category	Block comment

Instrumentation Tools

Totally Integrated Automation Portal		
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\PASS_ON	
English (United States)	1=Enable passivation	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\PASS_ON	
English (United States)	1=Fail-safe values are output	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\QBAD	
English (United States)	1=Fail-safe values are output	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\QBAD	
English (United States)	1=F-I/O disabled	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\DISABLED	
English (United States)	1=F-I/O disabled	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\DISABLED	
English (United States)	A	
Category	Alarm class text	
Reference	Safety PLC example\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName	
English (United States)	A	
Category	Alarm class text	
Reference	Safety PLC example\Acknowledgement\ShortName	
English (United States)	F_: Calculation of Elapsed Time	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_ET_LI [FB32778]\Block title	
English (United States)	F_: Channel Driver Block 8 BOOL Input not channel granular	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_8BOOL_INPUT_NC [FB32773]\Block title	
English (United States)	F_: Channel Driver Block 8 BOOL Output not channel granular	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_8BOOL_OUTPUT_NC [FB32772]\Block title	
English (United States)	F_: Cycle Control and Mode	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_1 [FB32767]\Block title	
English (United States)	F_: cyclic calculation of D-signature	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_D [FB32776]\Block title	
English (United States)	F_: Emergency STOP up to stop category 1	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_ESTOP1 [FB215]\Block title	
English (United States)	F_: F_SYSINFO	

Instrumentation Tools

Totally Integrated Automation Portal		
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\PLC data types\System data types\F_SYSINFO\Title of the PLC data type	
English (United States)	F_: Jmp label / Loop - global correction implementation	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_JL_CORR [FC32768]\Block title	
English (United States)	F_: Measurement of current and longest runtime	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_RT [FB32779]\Block title	
English (United States)	F_: Module Driver Block Receive PROFIsafe V2 + Protocol extension up to 13 Bytes	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_SEEDPASS_RCV [FB32770]\Block title	
English (United States)	F_: Module Driver Block Send PROFIsafe V2 + Protocol extension up to 13 Bytes	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_SEEDPASS_SEND [FB32771]\Block title	
English (United States)	F_: Safety door monitoring	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_SFDOOR [FB217]\Block title	
English (United States)	F_: Test Block and Programme Run Control	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_2 [FB32777]\Block title	
English (United States)	NA	
Category	Alarm class text	
Reference	Safety PLC example\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName	
English (United States)	NA	
Category	Alarm class text	
Reference	Safety PLC example\No Acknowledgement\ShortName	
English (United States)	Non-fail-safe service information	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\DIAG	
English (United States)	Non-fail-safe service information	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\DIAG	
English (United States)	Passivation output	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\PASS_OUT	
English (United States)	Passivation output	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\PASS_OUT	
English (United States)	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	
Category	Block comment	

Instrumentation Tools

Totally Integrated Automation Portal		
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\IPAR_EN	
English (United States)	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\IPAR_OK	
English (United States)	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\IPAR_OK	
English (United States)	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	
Category	Block comment	
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\IPAR_EN	