

Totally Integrated Automation Portal		
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Safety PLC example

Project							
Name:	Safety PLC example	Creation time:	2/12/2023 7:26:13 AM	Last change	2/28/2023 12:53:27 PM	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	11.789.19041.0
Computer name	MMUHAMED-D1
User name	GULSANEGYPT\mmuhamed
Installation path of the TIA Portal	C:\Program Files\Siemens\Automation\Portal V16

Components		
Name	Version	Release
TIA Portal Project Server V16 - TIA Portal Project Server Single SetupPackage V16.0 (MUSERVERV16)	V16.0	V16.00.00.00_31.02.00.01
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 - 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
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
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
ETWEEventCollector	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 Software Updater	02.05.0300	V02.05.03.00_01.01.00.29
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 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

Totally Integrated Automation Portal																																															
<table><tr><th>Name</th><th>Version</th><th>Release</th></tr><tr><td>SeCon</td><td>2.6</td><td>V02.06.01.00_01.08.00.01</td></tr><tr><td>WinCC Runtime Advanced Simulator</td><td>16.0.0.0</td><td>V16.00.00.00_31.02.00.01</td></tr></table> <table><tr><th colspan="3">Products</th></tr><tr><th>Name</th><th>Version</th><th>Release</th></tr><tr><td>TIA Portal Project Server</td><td>V16.0</td><td>V16.00.00.00_31.02.00.01</td></tr><tr><td>SIMATIC S7-PLCSIM</td><td>V16.0</td><td>V16.00.00.00_31.00.13.01</td></tr><tr><td>TIA Administrator</td><td>V1.0</td><td>01.00.02.00_01.10.00.01</td></tr><tr><td>SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Adv</td><td>V16.0</td><td>V16.00.00.00_31.02.00.01</td></tr><tr><td>User Management Component</td><td>V2.7</td><td>V02.07.00.00_00.00.00.00</td></tr><tr><td>SIMATIC WinCC Runtime Advanced Simulation</td><td>V16.0</td><td>V16.00.00.00_31.02.00.01</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>S7-PCT</td><td>V3.5 + SP1</td><td>K3.5.1.0_1.19.0.1</td></tr></table>			Name	Version	Release	SeCon	2.6	V02.06.01.00_01.08.00.01	WinCC Runtime Advanced Simulator	16.0.0.0	V16.00.00.00_31.02.00.01	Products			Name	Version	Release	TIA Portal Project Server	V16.0	V16.00.00.00_31.02.00.01	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 Prof - STEP 7 Safety - WinCC Adv	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	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	S7-PCT	V3.5 + SP1	K3.5.1.0_1.19.0.1
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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 consistent safety upload; supports PROFI-safe 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; firm-ware 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 PROFI-safe 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	
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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	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].	Enable time synchronization via NTP server	False		IP addresses
Server 1	0.0.0.0	Server 2	0.0.0.0	Server 3	0.0.0.0
Server 4	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				
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PROFINET interface [X1]\Advanced options\Real time settings\Synchronization

RT class:	RT,IRT				
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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%		
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PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General

Name	Port_1	Author	PLC Traning	Comment	
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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					
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					
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].		Enable time synchronization via NTP server	False	IP addresses	
Server 1	0.0.0.0		Server 2	0.0.0.0	Server 3	0.0.0.0
Server 4	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					

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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 Traning	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	Enable autonegotiation	True	
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries						
End of detection of accessible devices	False	End of topology discovery	False	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)	1	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)	0	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	
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					

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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
Company logo		---		Resolution		240x260
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		Last		Selection of the weekday		Sunday
at		01:00 a.m.		of		March
Time of day\Daylight saving time\Start of standard time						
Selection of the week		Last		Selection of the weekday		Sunday
at		02:00 a.m.		of		October
Protection						
Level of protection		Full access with fail-safe (no protection) 				
Protection\Connection mechanisms						
Permit access with PUT/GET communication from remote partner		False				
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

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

Safety summary

General information

F-signatures		
Collective F-signature	C81C438F	
Software F-signature	3305DDED	
Hardware F-signature	951665A2	
F-communication address signature	----	
Current compilation		
Safety program state	The offline safety program is consistent.	
Compilation time	2/28/2023 2:46:40 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
ACK_GL	V1.3
ESTOP1	V1.6
EV1oo2DI	V1.3
SFDOOR	V1.3

Safety information: C81C438F Consistent; STEP 7 Safety V16;

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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: C81C438F Consistent; STEP 7 Safety V16;

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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	CBC2445A
Main_Safety_RTG1 [FB1]	F-FB	RTG1	DF8A18E2
Main_Safety_RTG1_DB [DB1]	F-IDB	RTG1	080D25C1

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: C81C438F Consistent; STEP 7 Safety V16;

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Totally Integrated Automation Portal				
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
I15.0	"ACK"	RTG1	Main_Safety_RTG1 [FB1]	4
I15.0	"ACK"	RTG1	Main_Safety_RTG1 [FB1]	5
Parameters for safety-related CPU-CPU communications via RCVDP, SENDDP				
No safety-related CPU-CPU communication via RCVDP, SENDDP is configured.				
Safety information: C81C438F Consistent; STEP 7 Safety V16;				

Totally Integrated Automation Portal		
Communications via Flexible F-Link No communications via Flexible F-Link are defined for the F-Program.		
Safety information: C81C438F Consistent; STEP 7 Safety V16;		

Totally Integrated Automation Portal		
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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	0x3C4F (15439)
Rail_0-3	6ES7 526-2BF00-0AB0 F-DQ 8x24V DC/2A PPM_1	9	65533	150 ms	0x10B5 (4277)

Safety information: C81C438F Consistent; STEP 7 Safety V16;

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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)	0x3C4F (15439)	Supplied channels	Channels [8...11]
F-parameter signature (with addresses)	0x563E (22078)	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
		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
Safety information: C81C438F Consistent; STEP 7 Safety V16;			

Totally Integrated Automation Portal		
General parameters	Specific Parameters	
	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	1oo1 evaluation
	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	1oo1 evaluation
	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
	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
Safety information: C81C438F Consistent; STEP 7 Safety V16;		

Totally Integrated Automation Portal		
General parameters	Specific Parameters	
	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
	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 acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
Safety information: C81C438F Consistent; STEP 7 Safety V16;		

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F-DQ 8x24V DC/2A PPM_1 : Central I/O Rail_0, Slot 3

General parameters		Specific Parameters	
Hardware		Maximum test period	1000 sec
Name	F-DQ 8x24V DC/2A PPM_1	Operating mode of the output	PM-switching mode
Slot	3	Channel 0	
Short designation	F-DQ 8x24V DC/2A PPM	Channel activated	Yes
Article number	6ES7 526-2BF00-0AB0	Channel failure acknowledge	Manual
Start address input	9	Max. readback time dark test	1.0 ms
Start address output	9	Disable dark test for 48 hours	No
Hardware identifier	259	Max. readback time switch on test	0.8 ms
F-monitoring time	150 ms	Activated light test	No
F-source address	1	Wire break	No
F-destination address	65533	Channel 1	
F-parameter signature (without addresses)	0x10B5 (4277)	Channel activated	Yes
F-parameter signature (with addresses)	0x4A58 (19032)	Channel failure acknowledge	Manual
Behavior after channel fault	Passivate channel	Max. readback time dark test	1.0 ms
RIOforFA-Safety	Yes	Disable dark test for 48 hours	No
PROFIsafe mode	V2 mode	Max. readback time switch on test	0.8 ms
PROFIsafe protocol version	Expanded protocol (XP)	Activated light test	No
Firmware version	V1.0	Wire break	No
Software		Channel 2	
F-I/O DB number	30003	Channel activated	Yes
F I/O DB name	F00009_F-DQ8x24VDC/2APPM_1	Channel failure acknowledge	Manual
Used in F-runtime group	RTG1	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 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 4	
		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 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	2/28/2023 2:55:00 PM (UTC +2:00)	Page numbers for safety summary	From 3 - 1 to 3 - 10
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Safety information: C81C438F Consistent; STEP 7 Safety V16;

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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

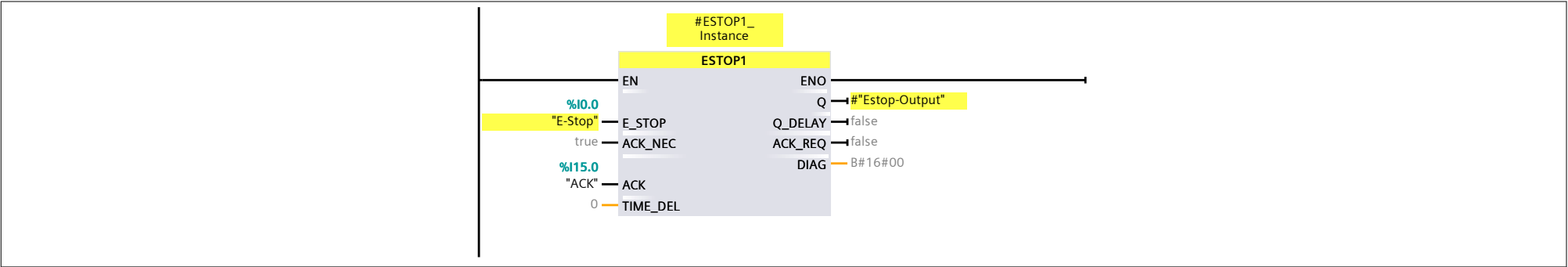
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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 neces-sary
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									
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 neces-sary
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=acknowledgement re-quest
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	Non-retain	True	True	True	True		
▼ EV1oo2DI_Instance	EV1oo2DI			True	True	True	True		
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Sensor 1
IN2	Bool	false	Non-retain	True	True	True	False		Sensor 2
DISCTIME	Time	T#0MS	Non-retain	True	True	True	False		Discrepancy time (0 to 60s)
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment neces-sary for discrepancy error
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment of discrep-ancy error
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		Output
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DISC_FLT	Bool	false	Non-retain	True	True	True	False		1=discrepancy error
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
SensorsEvaluationOutput	Bool	false	Non-retain	True	True	True	True		
▼ ACK_GL_Instance	ACK_GL			True	True	True	True		
▼ Input									

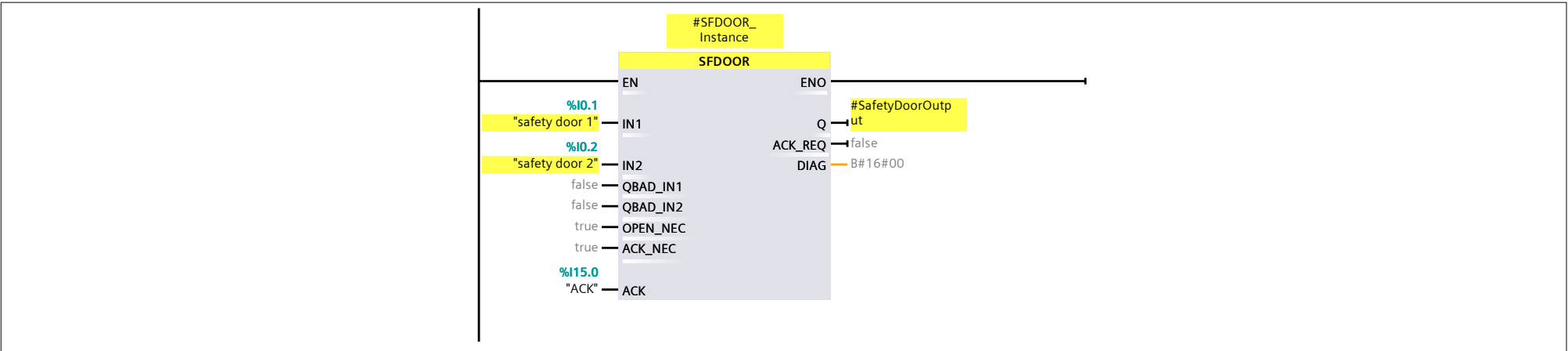
Safety information: C81C438F Consistent; STEP 7 Safety V16;

Totally Integrated Automation Portal									
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/ Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
ACK_GLOB	Bool	false	Non-retain	True	True	True	False		1=acknowledgment for reintegration
Output									
InOut									
Static									
Temp									
Constant									

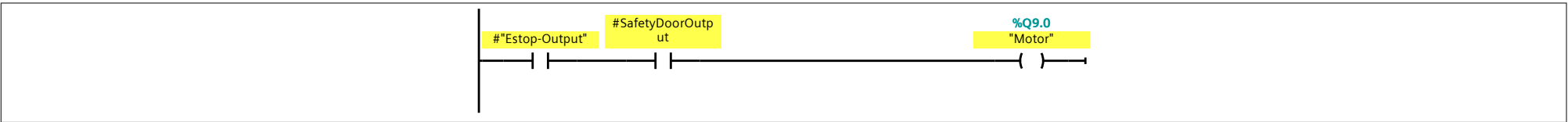
Network 1:



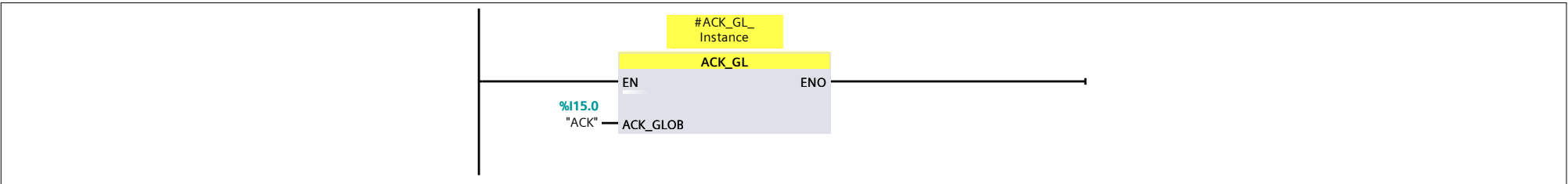
Network 2:



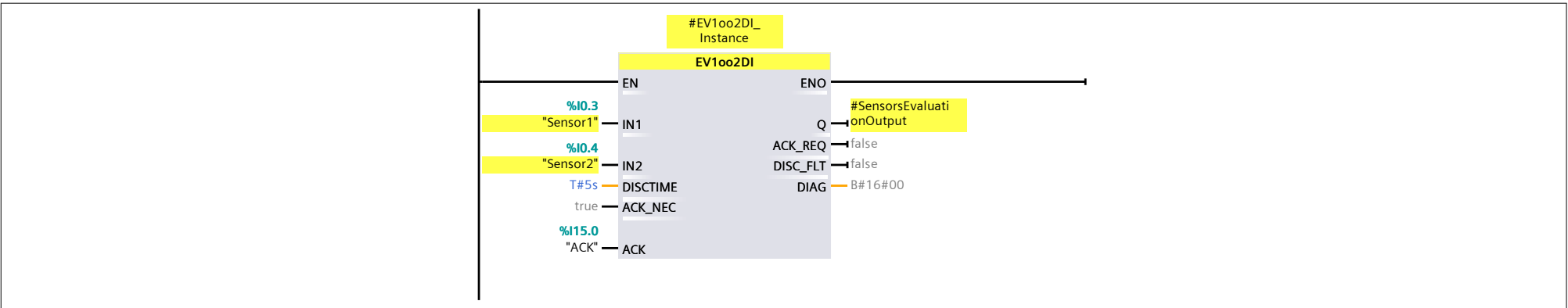
Network 3:



Network 4:



Network 5:



Totally Integrated 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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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									
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 necessary
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 request
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	False	True	True	True	True		
▼ EV1oo2DI_Instance	EV1oo2DI		False	True	True	True	True		
▼ Input									
IN1	Bool	false	False	True	True	True	False		Sensor 1
IN2	Bool	false	False	True	True	True	False		Sensor 2
DISCTIME	Time	T#0MS	False	True	True	True	False		Discrepancy time (0 to 60s)
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment necessary for discrepancy error
ACK	Bool	false	False	True	True	True	False		Acknowledgment of discrepancy er-ror
▼ Output									
Q	Bool	false	False	True	True	True	False		Output
ACK_REQ	Bool	false	False	True	True	True	False		1=acknowledgment request
DISC_FLT	Bool	false	False	True	True	True	False		1=discrepancy error
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
SensorsEvaluationOutput	Bool	false	False	True	True	True	True		
▼ ACK_GL_Instance	ACK_GL		False	True	True	True	True		
▼ Input									
ACK_GLOB	Bool	false	False	True	True	True	False		1=acknowledgment for reintegration
Output									
InOut									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

Totally Integrated Automation Portal										
Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment	
Static										

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] Software units This folder is empty.		

Totally Integrated Automation Portal		
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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			

Totally Integrated Automation Portal		
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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

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

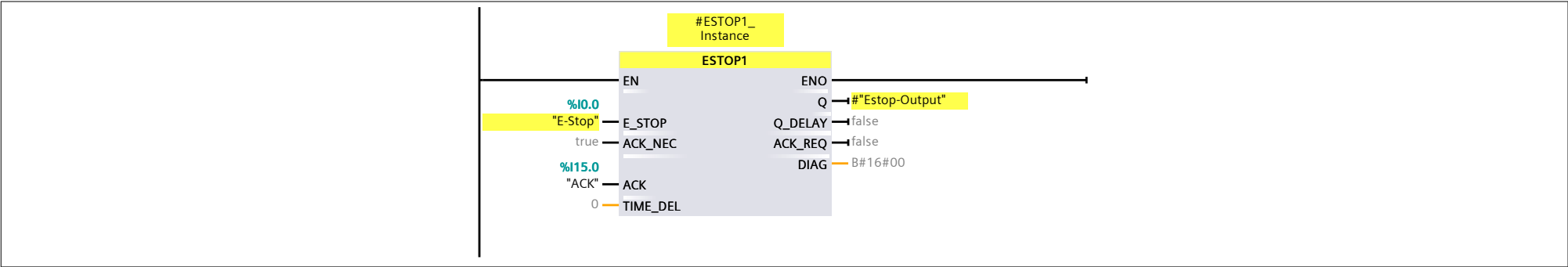
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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 neces-sary
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									
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 neces-sary
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=acknowledgement re-quest
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	Non-retain	True	True	True	True		
▼ EV1oo2DI_Instance	EV1oo2DI			True	True	True	True		
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Sensor 1
IN2	Bool	false	Non-retain	True	True	True	False		Sensor 2
DISCTIME	Time	T#0MS	Non-retain	True	True	True	False		Discrepancy time (0 to 60s)
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment neces-sary for discrepancy error
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment of discrep-ancy error
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		Output
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DISC_FLT	Bool	false	Non-retain	True	True	True	False		1=discrepancy error
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
SensorsEvaluationOutput	Bool	false	Non-retain	True	True	True	True		
▼ ACK_GL_Instance	ACK_GL			True	True	True	True		
▼ Input									

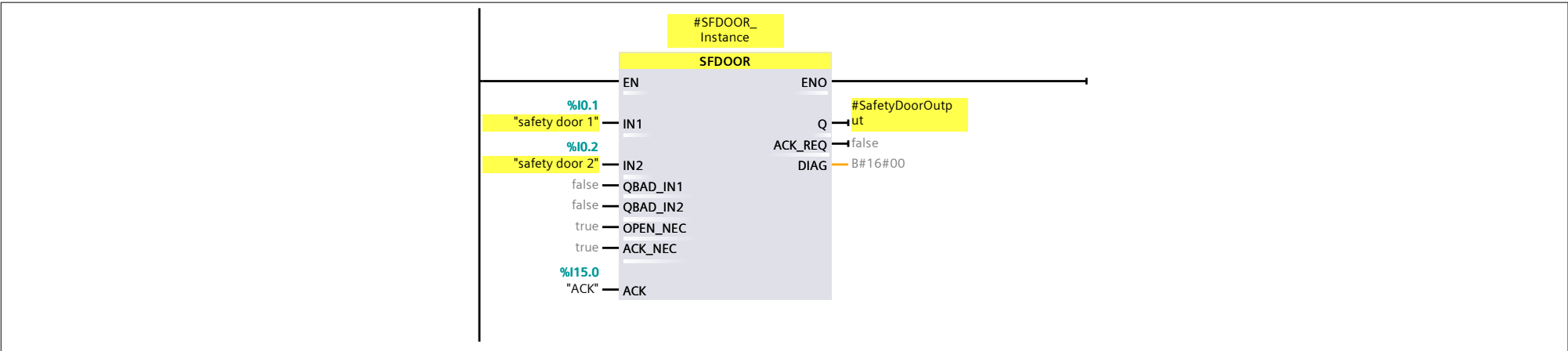
Safety information: C81C438F Consistent; STEP 7 Safety V16;

Totally Integrated Automation Portal									
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/ Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
ACK_GLOB	Bool	false	Non-retain	True	True	True	False		1=acknowledgment for reintegration
Output									
InOut									
Static									
Temp									
Constant									

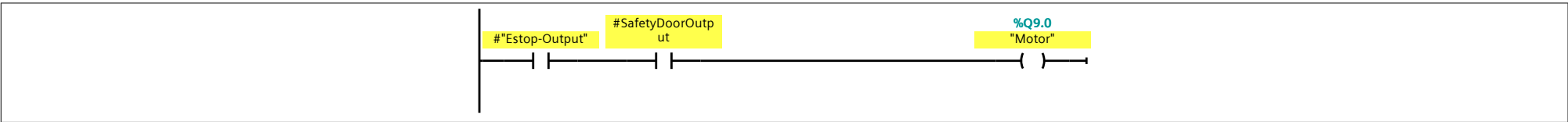
Network 1:



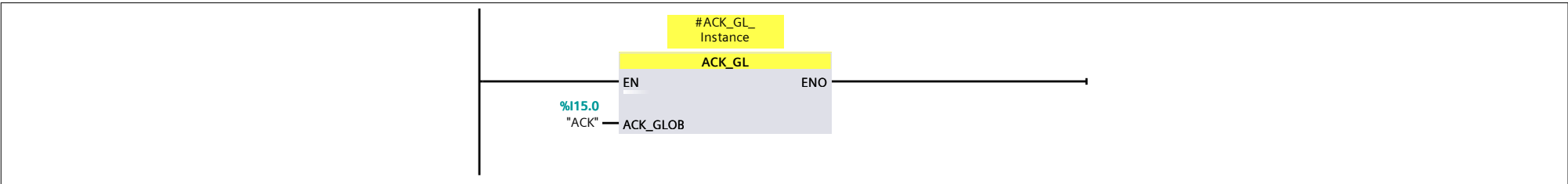
Network 2:



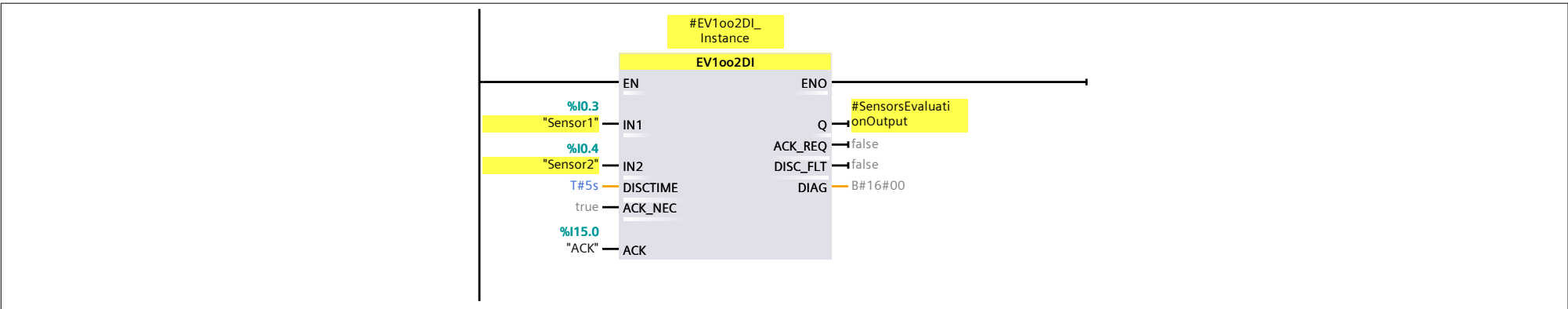
Network 3:



Network 4:



Network 5:



Totally Integrated 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	FUSI				

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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									
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 necessary
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 request
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	False	True	True	True	True		
▼ EV1oo2DI_Instance	EV1oo2DI		False	True	True	True	True		
▼ Input									
IN1	Bool	false	False	True	True	True	False		Sensor 1
IN2	Bool	false	False	True	True	True	False		Sensor 2
DISCTIME	Time	T#0MS	False	True	True	True	False		Discrepancy time (0 to 60s)
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment necessary for discrepancy error
ACK	Bool	false	False	True	True	True	False		Acknowledgment of discrepancy er-ror
▼ Output									
Q	Bool	false	False	True	True	True	False		Output
ACK_REQ	Bool	false	False	True	True	True	False		1=acknowledgment request
DISC_FLT	Bool	false	False	True	True	True	False		1=discrepancy error
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
SensorsEvaluationOutput	Bool	false	False	True	True	True	True		
▼ ACK_GL_Instance	ACK_GL		False	True	True	True	True		
▼ Input									
ACK_GLOB	Bool	false	False	True	True	True	False		1=acknowledgment for reintegration
Output									
InOut									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

Totally Integrated Automation Portal										
Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment	
Static										

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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
▼ Output									
MODE	Bool	false	False	True	True	True	False		1 = deactivated safety mode
▼ F_SYSINFO	F_SYSINFO		False	True	True	True	False		F-Runtime group information
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#C81C438F	False	True	True	True	False		Collective F-signature of the safety program
▼ F_PROG_DAT	DTL	DTL#2023-2-28-12:46:40.561777000	False	True	True	True	False		Compilation date of the safety pro-gram
YEAR	UInt	2023	False	True	True	True	False		
MONTH	USInt	2	False	True	True	True	False		
DAY	USInt	28	False	True	True	True	False		
WEEKDAY	USInt	3	False	True	True	True	False		
HOUR	USInt	12	False	True	True	True	False		
MINUTE	USInt	46	False	True	True	True	False		
SECOND	USInt	40	False	True	True	True	False		
NANOSECOND	UDInt	561777000	False	True	True	True	False		
F_RTG_SIG	DWord	DW#16#E15B157B	False	True	True	True	False		Collective F-signature of the F-Run-time group
▼ F_RTG_DAT	DTL	DTL#2023-2-28-12:46:40.561777000	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	28	False	True	True	True	False		
WEEKDAY	USInt	3	False	True	True	True	False		
HOUR	USInt	12	False	True	True	True	False		
MINUTE	USInt	46	False	True	True	True	False		
SECOND	USInt	40	False	True	True	True	False		
NANOSECOND	UDInt	561777000	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: C81C438F Consistent; STEP 7 Safety V16;

Totally Integrated Automation Portal		
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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
FCCValue	DWord	16#0	False	True	True	True	False		

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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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 neces-sary
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: C81C438F Consistent; STEP 7 Safety V16;

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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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 neces-sary
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=acknowledgement re-quest
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

Totally Integrated Automation Portal

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

F_1oo2DI [FB190]

F_1oo2DI Properties

General

Name	F_1oo2DI	Number	190	Type	FB	Language	FBD
Numbering	Automatic						

Information

Title	F_: 1oo2 evaluation with discrepancy analysis	Author	Safety	Comment		Family	F_FUNC
Version	1.0	User-defined ID	F_1oo2DI				

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Sensor 1
IN2	Bool	false	Non-retain	True	True	True	False		Sensor 2
DISCTIME	Time	T#0MS	Non-retain	True	True	True	False		Discrepancy time (0 to 60s)
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment neces-sary for discrepancy error
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment of discrep-ancy error
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		Output
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DISC_FLT	Bool	false	Non-retain	True	True	True	False		1=discrepancy error
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

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

F_ACK_GL [FB219]

F_ACK_GL Properties

General

Name	F_ACK_GL	Number	219	Type	FB	Language	FBD
Numbering	Automatic						

Information

Title	F_: Global acknowledgement of all F-I/Os in an F- Runtime group	Author	Safety	Comment		Family	F_FUNC
Version	1.0	User-defined ID	F_ACK_GL				

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
ACK_GLOB	Bool	false	Non-retain	True	True	True	False		1=acknowledgment for rein-tegration
Output									
InOut									
Static									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

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F_CTRL_1 [FB32767]

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
▼ Output									
MODE	Bool	false	Non-retain	True	True	True	False		1 = deactivated safety mode
▼ F_SYSINFO	F_SYSINFO		Non-retain	True	True	True	False		F-Runtime group informa-tion
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		
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		
NANOSECOND	UDInt	0	Non-retain	True	True	True	False		
F_RTG_SIG	DWord	16#0	Non-retain	True	True	True	False		Collective F-signature of the F- Runtime group
▼ F_RTG_DAT	DTL	DTL#1970-01-01-00:00:00	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		
NANOSECOND	UDInt	0	Non-retain	True	True	True	False		
VERS_S7SAF	DWord	16#0	Non-retain	True	True	True	False		Version label of STEP 7 Safe-ty
InOut									
Static									

Totally Integrated 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_2_1_0_1_23 [FB32768]

F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 Properties

General

Name	F_PS_IN_2_0_0_0_0_0_2_1_0_1_23	Number	32768	Type	FB	Language	SCL
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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 rein-tegration required
ACK_REI	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment for rein-tegration
IPAR_EN	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassign-ment of fail-safe DP stand-ard slaves/IO standard devi-ces 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 out-put
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment require-ment for reintegration
IPAR_OK	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassign-ment of fail-safe DP stand-ard slaves/IO standard devi-ces or for enabling HART communication
DIAG	Byte	16#0	Non-retain	True	True	True	False		Non-fail-safe service infor-mation
DISABLED	Bool	false	Non-retain	True	True	True	False		1=F-I/O disabled
InOut									
Static									

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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	Language	SCL
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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 rein-tegration required
ACK_REI	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment for rein-tegration
IPAR_EN	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassign-ment of fail-safe DP stand-ard slaves/IO standard devi-ces 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 out-put
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment require-ment for reintegration
IPAR_OK	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassign-ment of fail-safe DP stand-ard slaves/IO standard devi-ces or for enabling HART communication
DIAG	Byte	16#0	Non-retain	True	True	True	False		Non-fail-safe service infor-mation
DISABLED	Bool	false	Non-retain	True	True	True	False		1=F-I/O disabled
InOut									
Static									

Totally Integrated Automation Portal		
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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	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/ Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
Output									
InOut									
Static									

Totally Integrated Automation Portal		
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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 PROFIsafe 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	Setpoint	Supervision	Comment
Input									
Output									
InOut									
Static									

Totally Integrated Automation Portal		
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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 channel granular	Author	SafeSys	Comment		Family	F_DRIVER
Version	2.0	User-defined ID	F_8BINNC				

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Totally Integrated Automation Portal		
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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 channel granular	Author	SafeSys	Comment		Family	F_DRIVER
Version	2.0	User-defined ID	F_8BOUNC				

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Totally Integrated Automation Portal		
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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Totally Integrated Automation Portal		
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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Totally Integrated Automation Portal		
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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
▼ Output									
In D	LInt	0	False	False	False	False	False		
InOut									
Static									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Safety information: C81C438F Consistent; STEP 7 Safety V16;

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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		

Totally Integrated Automation Portal		
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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 implementation	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		

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Static									

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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		

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

FGACK_GL [FB32781]

FGACK_GL Properties

General

Name	FGACK_GL	Number	32781	Type	FB	Language	SCL
Numbering	Automatic						

Information

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

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

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

FGACK_GL_GCTX_DB [DB30013]

FGACK_GL_GCTX_DB Properties

General

Name	FGACK_GL_GCTX_DB	Number	30013	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Static									

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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 stand-ard 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 stand-ard 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
InOut									
Static									

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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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	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/I/O stand-ard 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/I/O stand-ard 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
InOut									
Static									

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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.		

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] Technology objects This folder is empty.		

Totally Integrated Automation Portal																																																																																						
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] PLC tags <table><tr><th colspan="7">PLC tags</th></tr><tr><th>Icon</th><th>Name</th><th>Data type</th><th>Address</th><th>Visible in HMI engineering</th><th>Accessible from HMI/OPC UA/Web API</th><th>Comment</th></tr><tr><td></td><td>ACK</td><td>Bool</td><td>%I15.0</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>EnergizePowerContacor</td><td>Bool</td><td>%Q9.1</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>E-Stop</td><td>Bool</td><td>%I0.0</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>Motor</td><td>Bool</td><td>%Q9.0</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>Piece Presence</td><td>Bool</td><td>%I15.1</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>RunMotor</td><td>Bool</td><td>%I15.2</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>safety door 1</td><td>Bool</td><td>%I0.1</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>safety door 2</td><td>Bool</td><td>%I0.2</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>Sensor1</td><td>Bool</td><td>%I0.3</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>Sensor2</td><td>Bool</td><td>%I0.4</td><td>True</td><td>True</td><td></td></tr></table>			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			EnergizePowerContacor	Bool	%Q9.1	True	True			E-Stop	Bool	%I0.0	True	True			Motor	Bool	%Q9.0	True	True			Piece Presence	Bool	%I15.1	True	True			RunMotor	Bool	%I15.2	True	True			safety door 1	Bool	%I0.1	True	True			safety door 2	Bool	%I0.2	True	True			Sensor1	Bool	%I0.3	True	True			Sensor2	Bool	%I0.4	True	True	
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																																																																																	
	EnergizePowerContacor	Bool	%Q9.1	True	True																																																																																	
	E-Stop	Bool	%I0.0	True	True																																																																																	
	Motor	Bool	%Q9.0	True	True																																																																																	
	Piece Presence	Bool	%I15.1	True	True																																																																																	
	RunMotor	Bool	%I15.2	True	True																																																																																	
	safety door 1	Bool	%I0.1	True	True																																																																																	
	safety door 2	Bool	%I0.2	True	True																																																																																	
	Sensor1	Bool	%I0.3	True	True																																																																																	
	Sensor2	Bool	%I0.4	True	True																																																																																	

Totally Integrated Automation Portal																																																																																						
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / PLC tags Default tag table [63] <table><tr><th colspan="7">PLC tags</th></tr><tr><th>Icon</th><th>Name</th><th>Data type</th><th>Address</th><th>Visible in HMI engineering</th><th>Accessible from HMI/OPC UA/Web API</th><th>Comment</th></tr><tr><td></td><td>ACK</td><td>Bool</td><td>%I15.0</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>EnergizePowerContacor</td><td>Bool</td><td>%Q9.1</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>E-Stop</td><td>Bool</td><td>%I0.0</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>Motor</td><td>Bool</td><td>%Q9.0</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>Piece Presence</td><td>Bool</td><td>%I15.1</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>RunMotor</td><td>Bool</td><td>%I15.2</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>safety door 1</td><td>Bool</td><td>%I0.1</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>safety door 2</td><td>Bool</td><td>%I0.2</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>Sensor1</td><td>Bool</td><td>%I0.3</td><td>True</td><td>True</td><td></td></tr><tr><td></td><td>Sensor2</td><td>Bool</td><td>%I0.4</td><td>True</td><td>True</td><td></td></tr></table>			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			EnergizePowerContacor	Bool	%Q9.1	True	True			E-Stop	Bool	%I0.0	True	True			Motor	Bool	%Q9.0	True	True			Piece Presence	Bool	%I15.1	True	True			RunMotor	Bool	%I15.2	True	True			safety door 1	Bool	%I0.1	True	True			safety door 2	Bool	%I0.2	True	True			Sensor1	Bool	%I0.3	True	True			Sensor2	Bool	%I0.4	True	True	
PLC tags																																																																																						
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	ACK	Bool	%I15.0	True	True																																																																																	
	EnergizePowerContacor	Bool	%Q9.1	True	True																																																																																	
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	Piece Presence	Bool	%I15.1	True	True																																																																																	
	RunMotor	Bool	%I15.2	True	True																																																																																	
	safety door 1	Bool	%I0.1	True	True																																																																																	
	safety door 2	Bool	%I0.2	True	True																																																																																	
	Sensor1	Bool	%I0.3	True	True																																																																																	
	Sensor2	Bool	%I0.4	True	True																																																																																	

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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	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-Runtime group in ms
TCYC_LONG	DInt	0	True	True	True	False	longest cycle time of the F-Runtime 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#1970-01-01-00:00:00	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	
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	
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-Runtime 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

Totally Integrated Automation Portal							
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Watch and force tables Force table <table><thead><tr><th>Name</th><th>Address</th><th>Display format</th><th>Force value</th><th>Comment</th></tr></thead><tbody></tbody></table>			Name	Address	Display format	Force value	Comment
Name	Address	Display format	Force value	Comment			

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] Traces Name		

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Traces Measurements This folder is empty.		

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Traces Combined measurements Name		

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / OPC UA communication Server interfaces This folder is empty.		

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / OPC UA communication Client interfaces This folder is empty.		

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / PLC supervisions & alarms Supervisions This folder is empty.		

Totally Integrated Automation Portal		
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / PLC supervisions & alarms PLC alarms PLC alarms No entries		

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	
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@
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	

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Totally Integrated Automation Portal			
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	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	
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	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	

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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	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	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		Additional text 7	
Additional text 8		Additional text 9	

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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
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
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

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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			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	
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	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

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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
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		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
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	

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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
ID	38	PLC alarm
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@	Location
Alarm class	No Acknowledgement	PLC_1
Information only	False	Info text
Report	False	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Date created	2/16/2023 11:30 AM	Acknowledgment
Group ID	0	False
Additional text 2		Priority
Additional text 4		0
Additional text 6		Created by
Additional text 8		System diagnostics
Name	 SDIAG_ALCAT_CH_ERR_MSG_0115	Last change
ID	39	2/16/2023 11:30 AM
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@	Additional text 1
Alarm class	No Acknowledgement	PLC_1
Information only	False	Additional text 3
Report	False	Additional text 5
Date created	2/16/2023 11:30 AM	Additional text 7
Group ID	0	Additional text 9
Additional text 2		Type
Additional text 4		PLC alarm
Additional text 6		Location
Additional text 8		PLC_1
Name	 SDIAG_ALCAT_ECH_ERR_MSG_0116	Info text
ID	40	Short name: @6W%t#260K@ Order number: @6W%t#265K@
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@	Acknowledgment
Alarm class	No Acknowledgement	False
Information only	False	Priority
Report	False	0
Date created	2/16/2023 11:30 AM	Created by
Group ID	0	System diagnostics
Additional text 2		Last change
Additional text 4		2/16/2023 11:30 AM
Additional text 6		Additional text 1
Additional text 8		PLC_1
Name	 SDIAG_ALCAT_CH_MD_MSG_0118	Additional text 3
ID	41	Additional text 5
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@	Additional text 7
Alarm class	No Acknowledgement	Additional text 9
Information only	False	Type
Report	False	PLC alarm
Date created	2/16/2023 11:30 AM	Location
Group ID	0	PLC_1
Additional text 2		Info text
Additional text 4		Short name: @6W%t#260K@ Order number: @6W%t#265K@
Additional text 6		Acknowledgment
Additional text 8		False
Name	 SDIAG_ALCAT_ECH_MD_MSG_0119	Priority
ID	42	0
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@	Created by
Alarm class	No Acknowledgement	System diagnostics
Information only	False	Last change
Report	False	2/16/2023 11:30 AM
Date created	2/16/2023 11:30 AM	Additional text 1
Group ID	0	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
ID	43	PLC alarm
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@	Location
Alarm class	No Acknowledgement	PLC_1
Information only	False	Info text
Report	False	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Date created	2/16/2023 11:30 AM	Acknowledgment
Group ID	0	False
Additional text 2		Priority
Additional text 4		0
		Created by
		System diagnostics
		Last change
		2/16/2023 11:30 AM
		Additional text 1
		PLC_1
		Additional text 3
		Additional text 5
		Additional text 7
		Additional text 9
		Type
		PLC alarm
		Location
		PLC_1
		Info text
		Short name: @6W%t#260K@ Order number: @6W%t#265K@
		Acknowledgment
		False
		Priority
		0
		Created by
		System diagnostics
		Last change
		2/16/2023 11:30 AM
		Additional text 1
		PLC_1
		Additional text 3
		Additional text 5
		Additional text 7
		Additional text 9
		Type
		PLC alarm
		Location
		PLC_1
		Info text
		Short name: @6W%t#260K@ Order number: @6W%t#265K@
		Acknowledgment
		False
		Priority
		0
		Created by
		System diagnostics
		Last change
		2/16/2023 11:30 AM
		Additional text 1
		PLC_1
		Additional text 3
		Additional text 5

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Additional text 6		Additional text 7	
Additional text 8		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
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
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	

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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		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			

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Safety PLC example / PLC_1 [CPU 1515TF-2 PN] PLC alarm text lists This folder is empty.		

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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 consistent safety upload; supports PROFI-safe 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 PROFI-safe 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	
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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	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].	Enable time synchronization via NTP server	False		IP addresses
Server 1	0.0.0.0	Server 2	0.0.0.0	Server 3	0.0.0.0
Server 4	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				
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PROFINET interface [X1]\Advanced options\Real time settings\Synchronization

RT class:	RT,IRT				
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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%		
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PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General

Name	Port_1	Author	PLC Traning	Comment	
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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					
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					
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].	Enable time synchronization via NTP server	False		IP addresses	
Server 1	0.0.0.0	Server 2	0.0.0.0	Server 3	0.0.0.0	
Server 4	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					

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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 Traning	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	Enable autonegotiation	True	
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries						
End of detection of accessible devices	False	End of topology discovery	False	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)	1	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)	0	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	
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					

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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	
Company logo		---				Resolution 240x260	
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		Last		Selection of the weekday		Sunday	
at		01:00 a.m.		of		March	
Time of day\Daylight saving time\Start of standard time							
Selection of the week		Last		Selection of the weekday		Sunday	
at		02:00 a.m.		of		October	
Protection							
Level of protection		Full access with fail-safe (no protection)					
Protection\Connection mechanisms							
Permit access with PUT/GET communication from remote partner		False					
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				Address gaps		False	

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Slot		True										
Type	Addr. from	Addr. to	Module	PIP	OB	Device name	Device number	Size	Master / IO system	Rack	Slot	
I	0	8	F-DI 16x24V DC_1	-	-	PLC_1 [CPU 1515TF-2 PN]	-	9 Bytes	-	0	2	
O	0	4	F-DI 16x24V DC_1	-	-	PLC_1 [CPU 1515TF-2 PN]	-	5 Bytes	-	0	2	
I	9	14	F-DQ 8x24V DC/2A PPM_1	-	-	PLC_1 [CPU 1515TF-2 PN]	-	6 Bytes	-	0	3	
O	9	14	F-DQ 8x24V DC/2A PPM_1	-	-	PLC_1 [CPU 1515TF-2 PN]	-	6 Bytes	-	0	3	
I	15	16	DI 16x24VDC BA_1	Automatic up-date	-	PLC_1 [CPU 1515TF-2 PN]	-	2 Bytes	-	0	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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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 Traning	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)	22078		F-parameter signature (without addresses)	15439	
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		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	
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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	
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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	
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Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 9\Input parameters									
Channel activated	Yes		Input delay	3.2ms		Channel failure ac-knowledge	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 ac-knowledge	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 ac-knowledge	Manual		
Pulse extension	---sec								
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	1oo1 evaluation		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 ac-knowledge	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 ac-knowledge	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	1oo1 evaluation		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 ac-knowledge	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 ac-knowledge	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 ac-knowledge	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		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 ac-knowledge	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								

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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 Traning	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				
Outputs 0 - 7\General					
Name	F-DQ 8x24V DC/2A PPM_1	Comment			
Outputs 0 - 7\F-parameters					
Manual assignment of F-monitoring time	False		F-monitoring time	150ms	
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	
PROFIsafe mode	V2 mode		PROFIsafe protocol version	Expanded protocol (XP)	
F-I/O DB-number	30003		F-I/O DB-name	F00009_F-DQ8x24VDC/2APPM_1	
				F-I/O DB manual number assignment	Automatic
Outputs 0 - 7\Outputs\Operating mode					
Maximum test period	1000sec		Operating mode of the output	PM-switching mode	
Outputs 0 - 7\Outputs\Channel 0\Diagnostics					
Wire break	No				
Outputs 0 - 7\Outputs\Channel 0\Output parameters					
Channel activated	Yes		Channel failure acknowledge	Manual	
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				
Outputs 0 - 7\Outputs\Channel 1\Output parameters					
Channel activated	Yes		Channel failure acknowledge	Manual	
Outputs 0 - 7\Outputs\Channel 1\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 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				

Totally Integrated Automation Portal							
Outputs 0 - 7\Outputs\Channel 5\Output parameters							
Channel activated	Yes		Channel failure ac-knowledge	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 ac-knowledge	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 ac-knowledge	Manual			
Outputs 0 - 7\Outputs\Channel 7\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\I/O addresses\Input addresses							
Start address	9.0	End address		14.7	Organization block		33024
Process image	33024						
Outputs 0 - 7\I/O addresses\Output addresses							
Start address	9.0	End address		14.7	Organization block		33024
Process image	33024						

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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				

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Totally Integrated Automation Portal		
Safety PLC example Ungrouped devices This folder is empty.		

Totally Integrated Automation Portal		
Safety PLC example Security settings This folder is empty.		

Totally Integrated Automation Portal		
Safety PLC example / Cross-device functions / Project traces Measurements This folder is empty.		

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Safety PLC example / Common data

Alarm classes

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

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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 Tran-ing
	F-activation for the CPU PLC_1 was disabled	2/12/2023	3:00:10 PM	DESKTOP-O4DT62G\PLC Tran-ing
	F-activation for the CPU PLC_1 was enabled	2/12/2023	3:00:12 PM	DESKTOP-O4DT62G\PLC Tran-ing
	F-activation for the CPU PLC_1 was enabled	2/12/2023	3:00:12 PM	DESKTOP-O4DT62G\PLC Tran-ing

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Safety PLC example / Languages & resources

Project languages

Languages
Reference language
English (United States)

Editing language
English (United States)

Other project languages
Empty

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Totally Integrated Automation Portal																																																																																																																																									
Safety PLC example / Languages & resources / Project texts Project texts <table><tr><th colspan="3">Project texts</th></tr><tr><th>English (United States)</th><th>Category</th><th>Reference</th></tr><tr><td></td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGESTOP1 [FB32774]\Block comment</td></tr><tr><td></td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGSFDOOR [FB32780]\Block comment</td></tr><tr><td></td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FG1oo2DI [FB32783]\Block comment</td></tr><tr><td></td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGACK_GL [FB32781]\Block comment</td></tr><tr><td>"Main Program Sweep (Cycle)"</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\Main [OB1]\Block title</td></tr><tr><td>1=Acknowledgment for reintegration</td><td>Block comment</td><td>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]\ACK_REI</td></tr><tr><td>1=Acknowledgment for reintegration</td><td>Block comment</td><td>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</td></tr><tr><td>1=Acknowledgment for reintegration required</td><td>Block comment</td><td>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]\ACK_NEC</td></tr><tr><td>1=Acknowledgment for reintegration required</td><td>Block comment</td><td>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</td></tr><tr><td>1=Acknowledgment requirement for reintegration</td><td>Block comment</td><td>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]\ACK_REQ</td></tr><tr><td>1=Acknowledgment requirement for reintegration</td><td>Block comment</td><td>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</td></tr><tr><td>1=Disables F-I/O</td><td>Block comment</td><td>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]\DISABLE</td></tr><tr><td>1=Disables F-I/O</td><td>Block comment</td><td>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</td></tr><tr><td>1=Enable passivation</td><td>Block comment</td><td>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]\PASS_ON</td></tr><tr><td>1=Enable passivation</td><td>Block comment</td><td>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</td></tr><tr><td>1=Fail-safe values are output</td><td>Block comment</td><td>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]\QBAD</td></tr><tr><td>1=Fail-safe values are output</td><td>Block comment</td><td>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</td></tr><tr><td>1=F-I/O disabled</td><td>Block comment</td><td>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]\DISABLED</td></tr><tr><td>1=F-I/O disabled</td><td>Block comment</td><td>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</td></tr><tr><td>A</td><td>Alarm class text</td><td>Safety PLC example\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName</td></tr><tr><td>A</td><td>Alarm class text</td><td>Safety PLC example\Acknowledgement\ShortName</td></tr><tr><td>F_: 1oo2 evaluation with discrepancy analysis</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_1oo2DI [FB190]\Block title</td></tr><tr><td>F_: Calculation of Elapsed Time</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_ET_LI [FB32778]\Block title</td></tr><tr><td>F_: Channel Driver Block 8 BOOL Input not channel granular</td><td>Block comment</td><td>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</td></tr><tr><td>F_: Channel Driver Block 8 BOOL Output not channel granular</td><td>Block comment</td><td>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</td></tr><tr><td>F_: Cycle Control and Mode</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_1 [FB32767]\Block title</td></tr><tr><td>F_: cyclic calculation of D-signature</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_D [FB32776]\Block title</td></tr><tr><td>F_: Emergency STOP up to stop category 1</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_ESTOP1 [FB215]\Block title</td></tr><tr><td>F_: F_SYSINFO</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\PLC data types\System data types\F_SYSINFO\Title of the PLC data type</td></tr><tr><td>F_: Global acknowledgement of all F-I/Os in an F-Runtime group</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_ACK_GL [FB219]\Block title</td></tr><tr><td>F_: Jmp label / Loop - global correction implementation</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_JL_CORR [FC32768]\Block title</td></tr><tr><td>F_: Measurement of current and longest run-time</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_RT [FB32779]\Block title</td></tr><tr><td>F_: Module Driver Block Receive PROFIsafe V2 + Protocolextension up to 13 Bytes</td><td>Block comment</td><td>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</td></tr><tr><td>F_: Module Driver Block Send PROFIsafe V2 + Protocolextension up to 13 Bytes</td><td>Block comment</td><td>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</td></tr><tr><td>F_: Safety door monitoring</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_SFDOOR [FB217]\Block title</td></tr><tr><td>F_: Test Block and Programme Run Control</td><td>Block comment</td><td>Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_2 [FB32777]\Block title</td></tr><tr><td>NA</td><td>Alarm class text</td><td>Safety PLC example\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName</td></tr><tr><td>NA</td><td>Alarm class text</td><td>Safety PLC example\No Acknowledgement\ShortName</td></tr><tr><td>Non-fail-safe service information</td><td>Block comment</td><td>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]\DIAG</td></tr><tr><td>Non-fail-safe service information</td><td>Block comment</td><td>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</td></tr><tr><td>Passivation output</td><td>Block comment</td><td>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]\PASS_OUT</td></tr><tr><td>Passivation output</td><td>Block comment</td><td>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</td></tr><tr><td>Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication</td><td>Block comment</td><td>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]\IPAR_OK</td></tr></table>	Project texts			English (United States)	Category	Reference		Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGESTOP1 [FB32774]\Block comment		Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGSFDOOR [FB32780]\Block comment		Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FG1oo2DI [FB32783]\Block comment		Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGACK_GL [FB32781]\Block comment	"Main Program Sweep (Cycle)"	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\Main [OB1]\Block title	1=Acknowledgment for reintegration	Block comment	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]\ACK_REI	1=Acknowledgment for reintegration	Block comment	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	1=Acknowledgment for reintegration required	Block comment	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]\ACK_NEC	1=Acknowledgment for reintegration required	Block comment	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	1=Acknowledgment requirement for reintegration	Block comment	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]\ACK_REQ	1=Acknowledgment requirement for reintegration	Block comment	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	1=Disables F-I/O	Block comment	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]\DISABLE	1=Disables F-I/O	Block comment	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	1=Enable passivation	Block comment	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]\PASS_ON	1=Enable passivation	Block comment	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	1=Fail-safe values are output	Block comment	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]\QBAD	1=Fail-safe values are output	Block comment	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	1=F-I/O disabled	Block comment	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]\DISABLED	1=F-I/O disabled	Block comment	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	A	Alarm class text	Safety PLC example\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName	A	Alarm class text	Safety PLC example\Acknowledgement\ShortName	F_: 1oo2 evaluation with discrepancy analysis	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_1oo2DI [FB190]\Block title	F_: Calculation of Elapsed Time	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_ET_LI [FB32778]\Block title	F_: Channel Driver Block 8 BOOL Input not channel granular	Block comment	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	F_: Channel Driver Block 8 BOOL Output not channel granular	Block comment	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	F_: Cycle Control and Mode	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_1 [FB32767]\Block title	F_: cyclic calculation of D-signature	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_D [FB32776]\Block title	F_: Emergency STOP up to stop category 1	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_ESTOP1 [FB215]\Block title	F_: F_SYSINFO	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\PLC data types\System data types\F_SYSINFO\Title of the PLC data type	F_: Global acknowledgement of all F-I/Os in an F-Runtime group	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_ACK_GL [FB219]\Block title	F_: Jmp label / Loop - global correction implementation	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_JL_CORR [FC32768]\Block title	F_: Measurement of current and longest run-time	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_RT [FB32779]\Block title	F_: Module Driver Block Receive PROFIsafe V2 + Protocolextension up to 13 Bytes	Block comment	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	F_: Module Driver Block Send PROFIsafe V2 + Protocolextension up to 13 Bytes	Block comment	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	F_: Safety door monitoring	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_SFDOOR [FB217]\Block title	F_: Test Block and Programme Run Control	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_2 [FB32777]\Block title	NA	Alarm class text	Safety PLC example\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName	NA	Alarm class text	Safety PLC example\No Acknowledgement\ShortName	Non-fail-safe service information	Block comment	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]\DIAG	Non-fail-safe service information	Block comment	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	Passivation output	Block comment	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]\PASS_OUT	Passivation output	Block comment	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	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	Block comment	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]\IPAR_OK		
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English (United States)	Category	Reference																																																																																																																																							
	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGESTOP1 [FB32774]\Block comment																																																																																																																																							
	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGSFDOOR [FB32780]\Block comment																																																																																																																																							
	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FG1oo2DI [FB32783]\Block comment																																																																																																																																							
	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGACK_GL [FB32781]\Block comment																																																																																																																																							
"Main Program Sweep (Cycle)"	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\Main [OB1]\Block title																																																																																																																																							
1=Acknowledgment for reintegration	Block comment	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]\ACK_REI																																																																																																																																							
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1=Disables F-I/O	Block comment	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]\DISABLE																																																																																																																																							
1=Disables F-I/O	Block comment	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																																																																																																																																							
1=Enable passivation	Block comment	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]\PASS_ON																																																																																																																																							
1=Enable passivation	Block comment	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																																																																																																																																							
1=Fail-safe values are output	Block comment	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]\QBAD																																																																																																																																							
1=Fail-safe values are output	Block comment	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																																																																																																																																							
1=F-I/O disabled	Block comment	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]\DISABLED																																																																																																																																							
1=F-I/O disabled	Block comment	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																																																																																																																																							
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A	Alarm class text	Safety PLC example\Acknowledgement\ShortName																																																																																																																																							
F_: 1oo2 evaluation with discrepancy analysis	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_1oo2DI [FB190]\Block title																																																																																																																																							
F_: Calculation of Elapsed Time	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_ET_LI [FB32778]\Block title																																																																																																																																							
F_: Channel Driver Block 8 BOOL Input not channel granular	Block comment	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																																																																																																																																							
F_: Channel Driver Block 8 BOOL Output not channel granular	Block comment	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																																																																																																																																							
F_: Cycle Control and Mode	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_1 [FB32767]\Block title																																																																																																																																							
F_: cyclic calculation of D-signature	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_D [FB32776]\Block title																																																																																																																																							
F_: Emergency STOP up to stop category 1	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_ESTOP1 [FB215]\Block title																																																																																																																																							
F_: F_SYSINFO	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\PLC data types\System data types\F_SYSINFO\Title of the PLC data type																																																																																																																																							
F_: Global acknowledgement of all F-I/Os in an F-Runtime group	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_ACK_GL [FB219]\Block title																																																																																																																																							
F_: Jmp label / Loop - global correction implementation	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_JL_CORR [FC32768]\Block title																																																																																																																																							
F_: Measurement of current and longest run-time	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_RT [FB32779]\Block title																																																																																																																																							
F_: Module Driver Block Receive PROFIsafe V2 + Protocolextension up to 13 Bytes	Block comment	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																																																																																																																																							
F_: Module Driver Block Send PROFIsafe V2 + Protocolextension up to 13 Bytes	Block comment	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																																																																																																																																							
F_: Safety door monitoring	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\F_SFDOOR [FB217]\Block title																																																																																																																																							
F_: Test Block and Programme Run Control	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_2 [FB32777]\Block title																																																																																																																																							
NA	Alarm class text	Safety PLC example\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName																																																																																																																																							
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Non-fail-safe service information	Block comment	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]\DIAG																																																																																																																																							
Non-fail-safe service information	Block comment	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																																																																																																																																							
Passivation output	Block comment	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]\PASS_OUT																																																																																																																																							
Passivation output	Block comment	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																																																																																																																																							
Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	Block comment	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]\IPAR_OK																																																																																																																																							

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Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	Block comment	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
Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	Block comment	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
Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	Block comment	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