





Totally Integrated Automation Portal					
Safety PLC example					
Project					
Name:	Safety PLC example	Creation time:	2/12/2023 7:26:13 AM	Last change	2/27/2023 3:45:34 PM
Last modified by:	PLC Traning	Version:		Author:	Mahmoud muhamed
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\muhamed	
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 - TIACOMPCHCK 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	
ETWEventCollector	16.0.0.0			V16.00.00.00_31.02.00.01	
SIMATIC NCM FWL 64	5.6.0.3			K5.6.0.3_1.1.0.2	
NCM GPRS 64	01.02.00.00			V1.2.0.0_2.1.0.1	
SIMATIC PLCSIM 64	16.00.00			16.00.00.00_01.00.02.01	
SIMATIC Device Drivers	9.2			09.02.04.00_01.04.00.05	
TelemetryConnector	1.0.2.57			V01.00.02.57_01.00.00.01	
Automation 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	

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Name		Version	Release
SeCon		2.6	V02.06.01.00_01.08.00.01
WinCC Runtime Advanced Simulator		V16.0.0.0	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

Totally Integrated Automation Portal					
Safety PLC example					
PLC_1 [CPU 1515TF-2 PN]					
PLC_1					
General\Project information					
Name	PLC_1	Author	PLC Training	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 up-load; 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		
Fail-safe\F-activation					
F-capability activated	1				
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 Training	Comment	
PROFINET interface [X1]\F-parameters					
Default F-monitoring time for F-I/O of this interface	150ms				
PROFINET interface [X1]\Ethernet addresses\Interface networked with					
Subnet:	Not connected				
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				
PROFINET interface [X1]\Advanced options\Real time settings\Synchronization					
RT class:	RT,IRT				
PROFINET interface [X1]\Advanced options\Real time settings\Real time options					
Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General					
Name	Port_1	Author	PLC Training	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 Training	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 Training	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 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 Training	Comment	
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Local port:					
Local port:	PLC_1\PROFINET interface_2 [X2]\Port_1 [X2 P1]	Medium:	Copper	Cable name:	---
					
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Partner port:					
	Monitoring of partner port is not possible	Alternative partners	False	Partner port:	Any partner
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Activate					
Activate this port for use	True				
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Connection					
Transmission rate / duplex:	Automatic	Monitor	False	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	Resolution	240x260
Company logo	---				
User interface languages					
Assign project language			User interface languages		
English (United States)			German		
English (United States)			English		
English (United States)			French		
English (United States)			Spanish		
English (United States)			Italian		
English (United States)			Japanese		
English (United States)			Chinese (simplified)		
English (United States)			Korean		
English (United States)			Russian		
English (United States)			Turkish		
English (United States)			Portuguese (Brazil)		
Time of day\Local time					
Time zone	(UTC) Dublin, Edinburgh, Lisbon, London				
Time of day\Daylight saving time					
Activate daylight saving time	True	Difference between standard and daylight saving time	60mins		
Time of day\Daylight saving time\Start of daylight saving time					
Selection of the week	Last	Selection of the weekday	Sunday	of	March
at	01:00 a.m.				
Time of day\Daylight saving time\Start of standard time					
Selection of the week	Last	Selection of the weekday	Sunday	of	October
at	02:00 a.m.				
Protection					
Level of protection	Full access with fail-safe (no protection) 				
Protection\Connection mechanisms					
Permit access with PUT/GET communication from remote partner	False				
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					
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 update	-	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						

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

Safety summary

General information

F-signatures	
Collective F-signature	----
Software F-signature	----
Hardware F-signature	----
F-communication address signature	----
Current compilation	
Safety program state	The offline safety program is inconsistent.
Compilation time	--
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 safety program is inconsistent. Information in this printout may not be current or valid.	
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
FDBACK	V1.5
SFDOOR	V1.3
TWO_H_EN	V1.3

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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: ---- Inconsistent; 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	F526ABA6
Main_Safety_RTG1 [FB1]	F-FB	Out of date	F271F53B
Main_Safety_RTG1_DB [DB1]	F-IDB	RTG1	080D25C1
Know-how protected F-blocks in the safety program			
No data available because safety program is inconsistent.			
F-compliant PLC data types in the safety program			
The safety program contains no F-compliant PLC data types (UDT).			
Safety information: ---- Inconsistent; STEP 7 Safety V16;			

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
I15.1	"Piece Presence"	RTG1	Main_Safety_RTG1 [FB1]	3
I15.2	"RunMotor"	RTG1	Main_Safety_RTG1 [FB1]	5
I15.0	"ACK"	RTG1	Main_Safety_RTG1 [FB1]	5
I15.0	"ACK"	RTG1	Main_Safety_RTG1 [FB1]	6
I15.0	"ACK"	RTG1	Main_Safety_RTG1 [FB1]	7

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

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

Totally Integrated Automation Portal		
<p>Communications via Flexible F-Link</p> <p>No communications via Flexible F-Link are defined for the F-Program.</p>		
<p>Safety information: ---- Inconsistent; STEP 7 Safety V16;</p>		

Totally Integrated
Automation Portal

Hardware configuration of F-I/O

F-CPU information

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

Central periphery

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

Safety information: ---- Inconsistent; STEP 7 Safety V16;

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
Slot	2	Channels [0...3]
Short designation	F-DI 16x24V DC	Short-circuit test activated
Article number	6ES7 526-1BH00-0AB0	Yes
Start address input	0	Time for short-circuit test
Start address output	0	4.2 ms
Hardware identifier	258	Startup time of sensor after short-circuit test
F-monitoring time	150 ms	4.2 ms
F-source address	1	Sensor supply 1
F-destination address	65534	Supplied channels
F-parameter signature (without addresses)	0xC147 (49479)	Channels [4...7]
F-parameter signature (with addresses)	0xDA84 (55940)	Short-circuit test activated
Behavior after channel fault	Passivate channel	Yes
RIOforFA-Safety	Yes	Time for short-circuit test
PROFIsafe mode	V2 mode	4.2 ms
PROFIsafe protocol version	Expanded protocol (XP)	Startup time of sensor after short-circuit test
Firmware version	V1.0	4.2 ms
Software		Sensor supply 2
F-I/O DB number	30002	Supplied channels
F I/O DB name	F00000_F-DI16x24VDC_1	Channels [8...11]
Used in F-runtime group	RTG1	Short-circuit test activated
		Yes
		Time for short-circuit test
		4.2 ms
		Startup time of sensor after short-circuit test
		4.2 ms
		Channel 0, 8
		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: ---- Inconsistent; 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	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	Channel 3	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 11	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 4, 12	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	Channel 4	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 12	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	Channel 5, 13	
Sensor evaluation	1oo2 evaluation, equivalent	
Discrepancy behavior	Supply value 0	
Discrepancy time	5 ms	
Reintegration after discrepancy error	Test 0-Signal not necessary	
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: ---- Inconsistent; 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: ---- Inconsistent; STEP 7 Safety V16;		

Totally Integrated Automation Portal			
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	2/27/2023 8:39:33 PM (UTC +2:00)	Page numbers for safety summary	From 3 - 1 to 3 - 10
Safety information: ---- Inconsistent; STEP 7 Safety V16;			

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

Main_Safety_RTG1

Main_Safety_RTG1 Properties

General

Name	Main_Safety_RTG1	Number	1	Type	FB	Language	LAD
Numbering	Manual						

Information

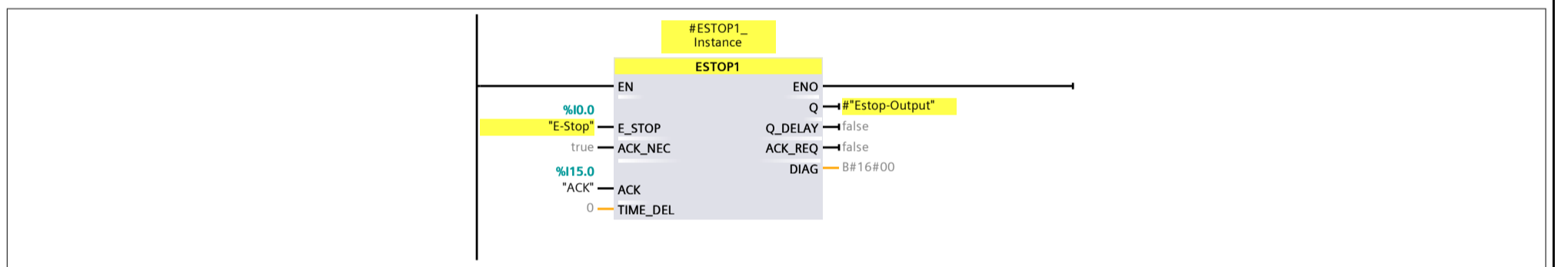
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1			True	True	True	True		
▼ Input									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	Non-retain	True	True	True	True		
▼ SFDOOR_Instance	SFDOOR			True	True	True	True		
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Input 1
IN2	Bool	false	Non-retain	True	True	True	False		Input 2
QBAD_IN1	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN1
QBAD_IN2	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN2
OPEN_NEC	Bool	true	Non-retain	True	True	True	False		1=open necessary at startup
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable, safety door closed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgement request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	Non-retain	True	True	True	True		
▼ TWO_H_EN_Instance	TWO_H_EN			True	True	True	True		
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Momentary-contact switch 1
IN2	Bool	false	Non-retain	True	True	True	False		Momentary-contact switch 2
ENABLE	Bool	false	Non-retain	True	True	True	False		Enable input
DISCTIME	Time	T#0MS	Non-retain	True	True	True	False		Discrepancy time (0 to 500ms)
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
TwoHandPress_Output	Bool	false	Non-retain	True	True	True	True		
▼ FDBACK_Instance	FDBACK			True	True	True	True		
▼ Input									
ON	Bool	false	Non-retain	True	True	True	False		1=Enable output
FEEDBACK	Bool	false	Non-retain	True	True	True	False		Feedback input
QBAD_FIO	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of output Q

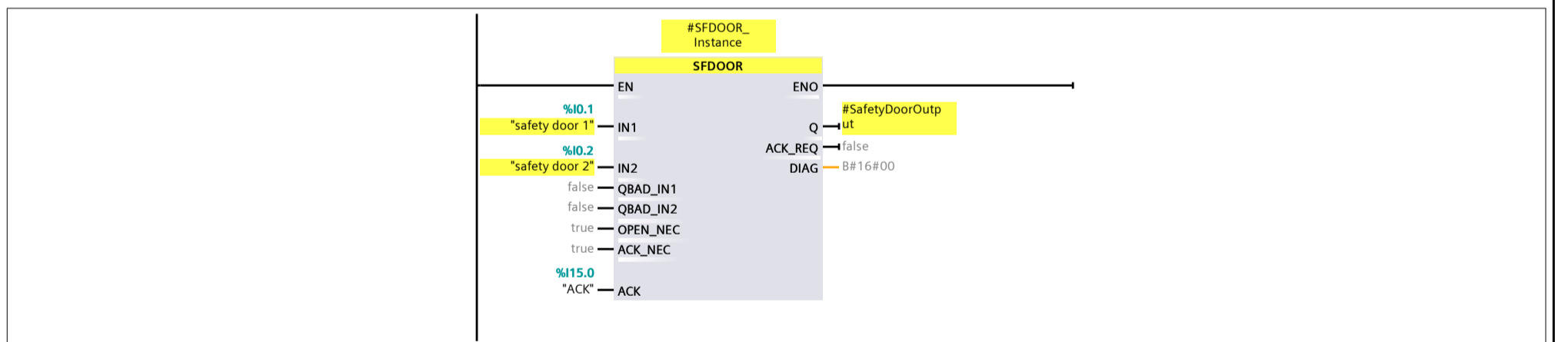
Safety information: ---- Inconsistent; STEP 7 Safety V16;

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_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
FDB_TIME	Time	T#0ms	Non-retain	True	True	True	False		Feedback time
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		Output
ERROR	Bool	false	Non-retain	True	True	True	False		Feedback error
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									
▼ ACK_GL_Instance	ACK_GL			True	True	True	True		
▼ Input									
ACK_GLOB	Bool	false	Non-retain	True	True	True	False		1=acknowledgment for reintegration
Output									
InOut									
Static									
Temp									
Constant									

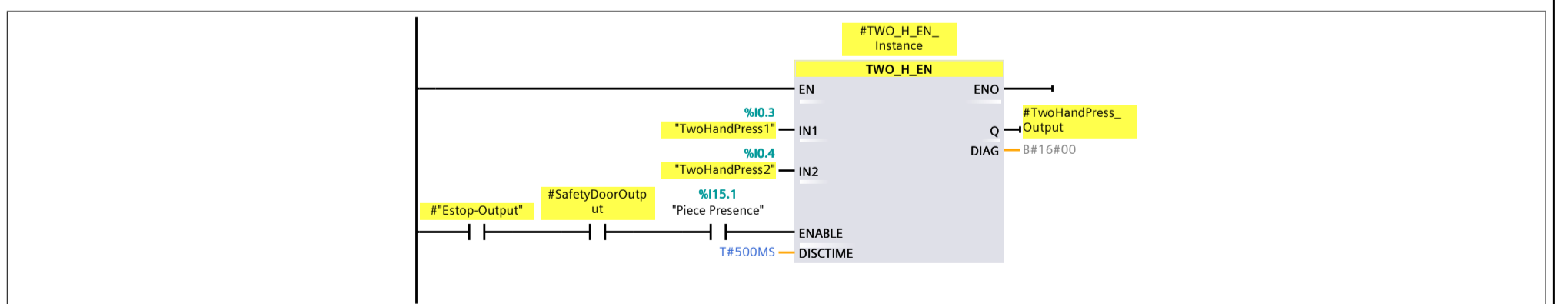
Network 1:



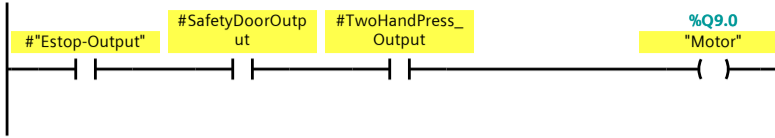
Network 2:



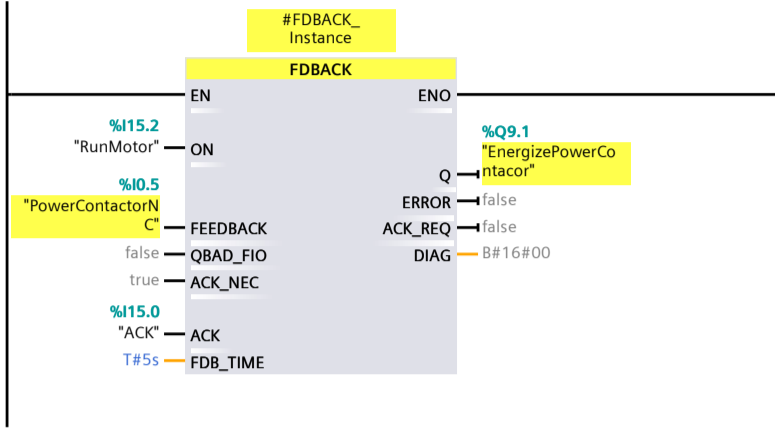
Network 3:



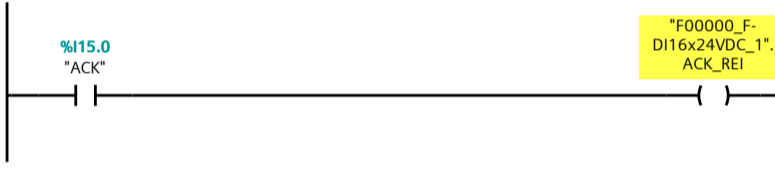
Network 4:



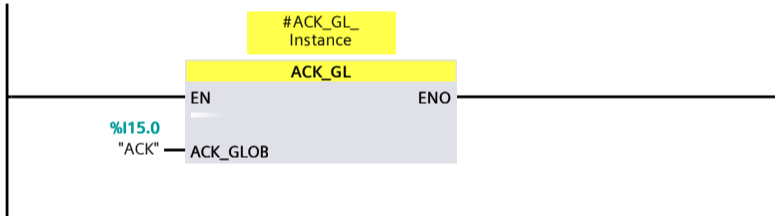
Network 5:



Network 6: 1=Acknowledgment for reintegration



Network 7:



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	FUS1				

Name	Data type	Start 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									
▼ 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		
▼ TWO_H_EN_Instance	TWO_H_EN		False	True	True	True	True		
▼ Input									
IN1	Bool	false	False	True	True	True	False		Momentary-contact switch 1
IN2	Bool	false	False	True	True	True	False		Momentary-contact switch 2
ENABLE	Bool	false	False	True	True	True	False		Enable input
DISCTIME	Time	T#0MS	False	True	True	True	False		Discrepancy time (0 to 500ms)
▼ Output									
Q	Bool	false	False	True	True	True	False		1=Enable
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
TwoHandPress_Output	Bool	false	False	True	True	True	True		
▼ FDBACK_Instance	FDBACK		False	True	True	True	True		
▼ Input									
ON	Bool	false	False	True	True	True	False		1=Enable output
FEEDBACK	Bool	false	False	True	True	True	False		Feedback input
QBAD_FIO	Bool	false	False	True	True	True	False		QBAD signal of FI/O/channel of output Q
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	False	True	True	True	False		Acknowledgment
FDB_TIME	Time	T#0ms	False	True	True	True	False		Feedback time

Safety information: ---- Inconsistent; 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	
▼ Output										
Q	Bool	false	False	True	True	True	False		Output	
ERROR	Bool	false	False	True	True	True	False		Feedback error	
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										
Safety information: ---- Inconsistent; STEP 7 Safety V16;										

Totally Integrated
Automation Portal

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

Software units

This folder is empty.

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

Main [OB1]

Main Properties

General

Name	Main	Number	1	Type	OB	Language	LAD
Numbering	Automatic						

Information

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

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

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

FOB_RTG1 [OB123]

FOB_RTG1 Properties

General

Name	FOB_RTG1	Number	123	Type	OB	Language	SCL
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

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

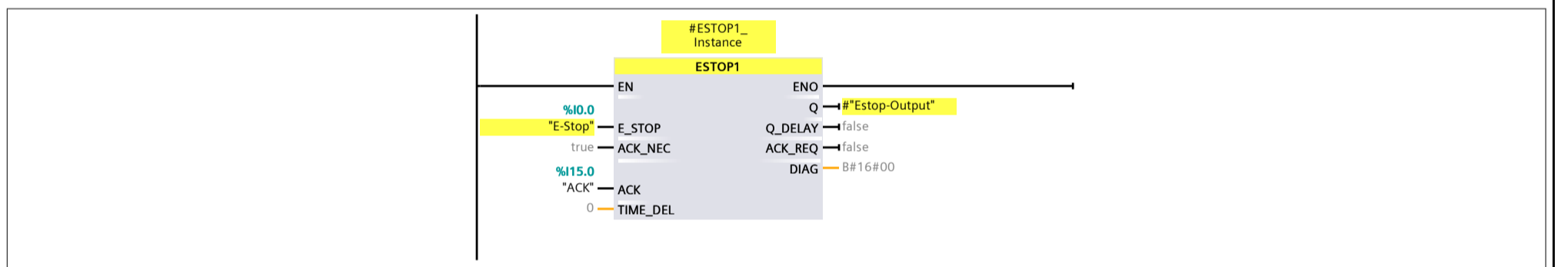
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1			True	True	True	True		
▼ Input									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	Non-retain	True	True	True	True		
▼ SFDOOR_Instance	SFDOOR			True	True	True	True		
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Input 1
IN2	Bool	false	Non-retain	True	True	True	False		Input 2
QBAD_IN1	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN1
QBAD_IN2	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN2
OPEN_NEC	Bool	true	Non-retain	True	True	True	False		1=open necessary at startup
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable, safety door closed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgement request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
SafetyDoorOutput	Bool	false	Non-retain	True	True	True	True		
▼ TWO_H_EN_Instance	TWO_H_EN			True	True	True	True		
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Momentary-contact switch 1
IN2	Bool	false	Non-retain	True	True	True	False		Momentary-contact switch 2
ENABLE	Bool	false	Non-retain	True	True	True	False		Enable input
DISCTIME	Time	T#0MS	Non-retain	True	True	True	False		Discrepancy time (0 to 500ms)
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
TwoHandPress_Output	Bool	false	Non-retain	True	True	True	True		
▼ FDBACK_Instance	FDBACK			True	True	True	True		
▼ Input									
ON	Bool	false	Non-retain	True	True	True	False		1=Enable output
FEEDBACK	Bool	false	Non-retain	True	True	True	False		Feedback input
QBAD_FIO	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of output Q

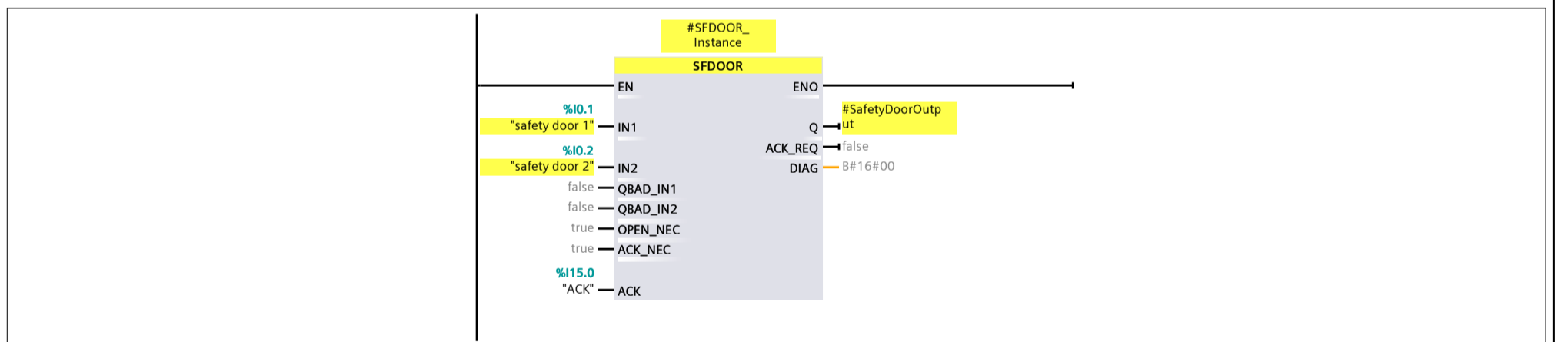
Safety information: ---- Inconsistent; STEP 7 Safety V16;

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
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment neces-sary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
FDB_TIME	Time	T#0ms	Non-retain	True	True	True	False		Feedback time
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		Output
ERROR	Bool	false	Non-retain	True	True	True	False		Feedback error
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									
▼ ACK_GL_Instance	ACK_GL			True	True	True	True		
▼ Input									
ACK_GLOB	Bool	false	Non-retain	True	True	True	False		1=acknowledgment for rein-tegration
Output									
InOut									
Static									
Temp									
Constant									

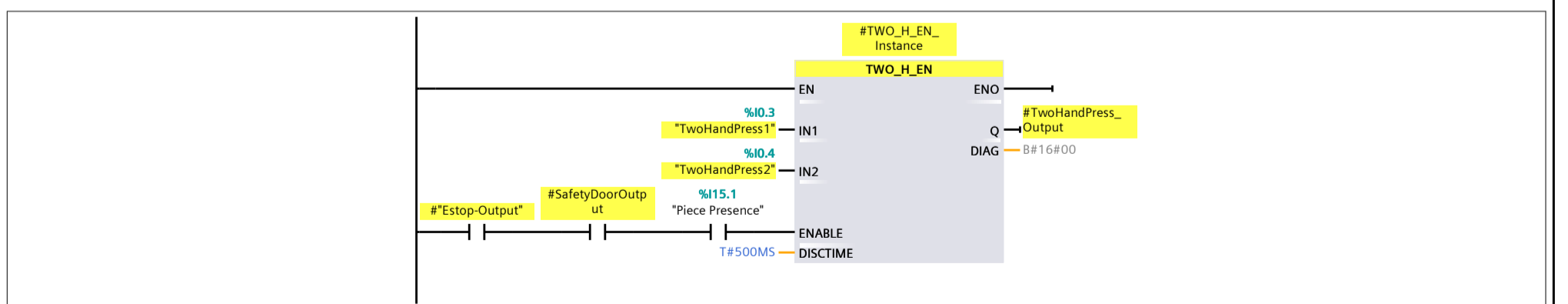
Network 1:



Network 2:

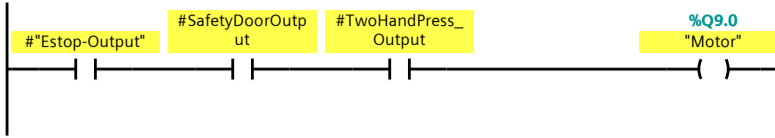


Network 3:

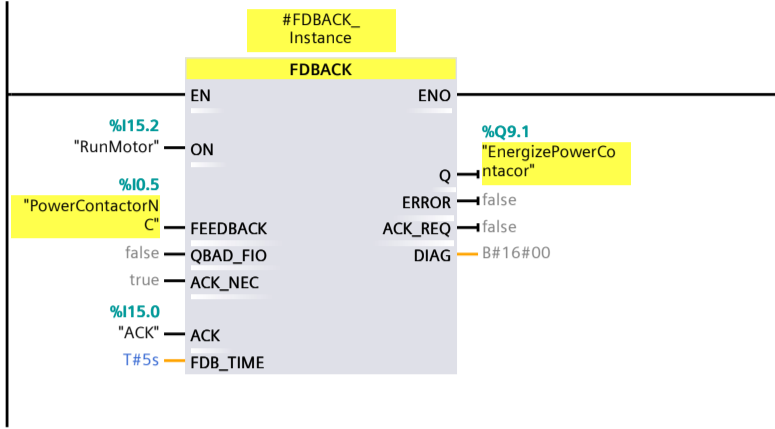


Network 4:

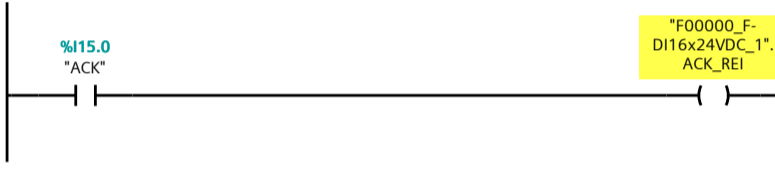
Safety information: ---- Inconsistent; STEP 7 Safety V16;



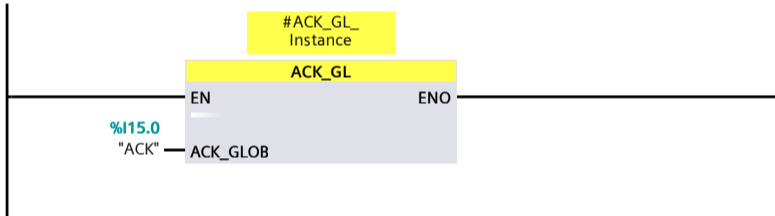
Network 5:



Network 6: 1=Acknowledgment for reintegration



Network 7:



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

Main_Safety_RTG1_DB [DB1]

Main_Safety_RTG1_DB Properties

General

Name	Main_Safety_RTG1_DB	Number	1	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID	FUS1				

Name	Data type	Start value	Retain	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									
▼ 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		
▼ TWO_H_EN_Instance	TWO_H_EN		False	True	True	True	True		
▼ Input									
IN1	Bool	false	False	True	True	True	False		Momentary-contact switch 1
IN2	Bool	false	False	True	True	True	False		Momentary-contact switch 2
ENABLE	Bool	false	False	True	True	True	False		Enable input
DISCTIME	Time	T#0MS	False	True	True	True	False		Discrepancy time (0 to 500ms)
▼ Output									
Q	Bool	false	False	True	True	True	False		1=Enable
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
TwoHandPress_Output	Bool	false	False	True	True	True	True		
▼ FDBACK_Instance	FDBACK		False	True	True	True	True		
▼ Input									
ON	Bool	false	False	True	True	True	False		1=Enable output
FEEDBACK	Bool	false	False	True	True	True	False		Feedback input
QBAD_FIO	Bool	false	False	True	True	True	False		QBAD signal of FI/O/channel of output Q
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	False	True	True	True	False		Acknowledgment
FDB_TIME	Time	T#0ms	False	True	True	True	False		Feedback time

Safety information: ---- Inconsistent; STEP 7 Safety V16;

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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	
▼ Output										
Q	Bool	false	False	True	True	True	False		Output	
ERROR	Bool	false	False	True	True	True	False		Feedback error	
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										
Safety information: ---- Inconsistent; STEP 7 Safety V16;										

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	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	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#B2F43D2E	False	True	True	True	False		Collective F-signature of the safety program
▼ F_PROG_DAT	DTL	DTL#2023-2-27-13:52:8.058368100	False	True	True	True	False		Compilation date of the safety program
YEAR	UInt	2023	False	True	True	True	False		
MONTH	USInt	2	False	True	True	True	False		
DAY	USInt	27	False	True	True	True	False		
WEEKDAY	USInt	2	False	True	True	True	False		
HOUR	USInt	13	False	True	True	True	False		
MINUTE	USInt	52	False	True	True	True	False		
SECOND	USInt	8	False	True	True	True	False		
NANOSECOND	UDInt	58368100	False	True	True	True	False		
F_RTG_SIG	DWord	DW#16#FE91939F	False	True	True	True	False		Collective F-signature of the F-Runtime group
▼ F_RTG_DAT	DTL	DTL#2023-2-27-13:52:8.058368100	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	27	False	True	True	True	False		
WEEKDAY	USInt	2	False	True	True	True	False		
HOUR	USInt	13	False	True	True	True	False		
MINUTE	USInt	52	False	True	True	True	False		
SECOND	USInt	8	False	True	True	True	False		
NANOSECOND	UDInt	58368100	False	True	True	True	False		
VERS_S7SAF	DWord	DW#16#16000000	False	True	True	True	False		Version label of STEP 7 Safety
InOut									
Static									

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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
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Numbering	Automatic
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Information

Title		Author		Comment		Family	
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Version	0.1	User-defined ID	F_GLOBDB
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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		

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
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Numbering	Automatic
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Information

Title	F_: Emergency STOP up to stop category 1	Author	Safety	Comment		Family	F_FUNC
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Version	1.1	User-defined ID	F_ESTOP1
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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									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									

Safety 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	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ Input									
IN1	Bool	false	Non-retain	True	True	True	False		Input 1
IN2	Bool	false	Non-retain	True	True	True	False		Input 2
QBAD_IN1	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN1
QBAD_IN2	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of input IN2
OPEN_NEC	Bool	true	Non-retain	True	True	True	False		1=open necessary at startup
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable, safety door closed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgement request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									

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

F_2H_EN [FB211]

F_2H_EN Properties

General

Name	F_2H_EN	Number	211	Type	FB	Language	FBD
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Numbering	Automatic
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Information

Title	F_: Two-hand monitoring with enable	Author	Safety	Comment		Family	F_FUNC
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Version	1.0	User-defined ID	F_2H_EN
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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									
IN1	Bool	false	Non-retain	True	True	True	False		Momentary-contact switch 1
IN2	Bool	false	Non-retain	True	True	True	False		Momentary-contact switch 2
ENABLE	Bool	false	Non-retain	True	True	True	False		Enable input
DISCTIME	Time	T#0MS	Non-retain	True	True	True	False		Discrepancy time (0 to 500ms)
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									

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

F_FDBACK [FB216]

F_FDBACK Properties

General

Name	F_FDBACK	Number	216	Type	FB	Language	FBD
Numbering	Automatic						

Information

Title	F_: Feedback monitoring	Author	Safety	Comment		Family	F_FUNC
Version	1.1	User-defined ID	F_FDBACK				

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									
ON	Bool	false	Non-retain	True	True	True	False		1=Enable output
FEEDBACK	Bool	false	Non-retain	True	True	True	False		Feedback input
QBAD_FIO	Bool	false	Non-retain	True	True	True	False		QBAD signal of FI/O/channel of output Q
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		Acknowledgment
FDB_TIME	Time	T#0ms	Non-retain	True	True	True	False		Feedback time
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		Output
ERROR	Bool	false	Non-retain	True	True	True	False		Feedback error
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									

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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
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Numbering	Automatic
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Information

Title	F_: Global acknowledgement of all F-I/Os in an F- Runtime group	Author	Safety	Comment		Family	F_FUNC
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Version	1.0	User-defined ID	F_ACK_GL
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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: ---- Inconsistent; STEP 7 Safety V16;

Totally Integrated
Automation PortalSafety 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									
InD	LInt	0	False	False	False	False	False		
InOut									
Static									

Safety information: ---- Inconsistent; STEP 7 Safety V16;

Totally Integrated
Automation PortalSafety 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
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Numbering	Automatic
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Information

Title		Author	SafeSys	Comment		Family	F_CTRL
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Version	1.2	User-defined ID	F_CTRL_2
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Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Safety information: ---- Inconsistent; STEP 7 Safety V16;

Totally Integrated
Automation PortalSafety 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
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Numbering	Automatic
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Information

Title		Author	SafeSys	Comment		Family	F_CTRL
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Version	2.0	User-defined ID	F_ET_LI
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Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Safety information: ---- Inconsistent; STEP 7 Safety V16;

Totally Integrated
Automation PortalSafety 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
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Numbering	Automatic
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Information

Title		Author	SafeSys	Comment		Family	F_CTRL
-------	--	--------	---------	---------	--	--------	--------

Version	1.0	User-defined ID	F_CTRLRT
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Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/Web API	Visible in HMI engineering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
Static									

Safety information: ---- Inconsistent; STEP 7 Safety V16;

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		

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		

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		

Totally Integrated
Automation Portal

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

F-communication DBs

This folder is empty.












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

Technology objects

This folder is empty.












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

PLC tags

PLC tags						
Icon	Name	Data type	Address	Visible in HMI engineering	Accessible from HMI/OPC UA/Web API	Comment
	ACK	Bool	%I15.0	True	True	
	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	
	PowerContactorNC	Bool	%I0.5	True	True	
	RunMotor	Bool	%I15.2	True	True	
	safety door 1	Bool	%I0.1	True	True	
	safety door 2	Bool	%I0.2	True	True	
	TwoHandPress1	Bool	%I0.3	True	True	
	TwoHandPress2	Bool	%I0.4	True	True	

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

Default tag table [64]

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	
	PowerContactorNC	Bool	%I0.5	True	True	
	RunMotor	Bool	%I15.2	True	True	
	safety door 1	Bool	%I0.1	True	True	
	safety door 2	Bool	%I0.2	True	True	
	TwoHandPress1	Bool	%I0.3	True	True	
	TwoHandPress2	Bool	%I0.4	True	True	

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	
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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	Writable from HMI/OPC UA/Web API	Visible in HMI engineering	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	
HOUR	USInt	0	True	True	True	False	
MINUTE	USInt	0	True	True	True	False	
SECOND	USInt	0	True	True	True	False	
NANOSECOND	UDInt	0	True	True	True	False	
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	
HOUR	USInt	0	True	True	True	False	
MINUTE	USInt	0	True	True	True	False	
SECOND	USInt	0	True	True	True	False	
NANOSECOND	UDInt	0	True	True	True	False	
VERS_S7SAF	DWord	16#0	True	True	True	False	Version label of STEP 7 Safety

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

Force table

Name	Address	Display format	Force value	Comment
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Safety PLC example / PLC_1 [CPU 1515TF-2 PN]

Traces

Name

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

Measurements

This folder is empty.

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

Combined measurements

Name

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

Server interfaces

This folder is empty.

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

Client interfaces

This folder is empty.

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

Supervisions

This folder is empty.

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




PLC alarms

PLC alarms

No entries

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	

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	

Totally Integrated Automation Portal			
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	

Totally Integrated Automation Portal			
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	PLC alarm
ID	38	Location	PLC_1
Alarm text	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement	Acknowledgment	False
Information only	False	Priority	0
Report	False	Created by	System diagnostics
Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM
Group ID	0	Additional text 1	PLC_1
Additional text 2		Additional text 3	
Additional text 4		Additional text 5	
Additional text 6		Additional text 7	
Additional text 8		Additional text 9	
Name	 SDIAG_ALCAT_CH_ERR_MSG_0115	Type	PLC alarm
ID	39	Location	PLC_1
Alarm text	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement	Acknowledgment	False
Information only	False	Priority	0
Report	False	Created by	System diagnostics
Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM
Group ID	0	Additional text 1	PLC_1
Additional text 2		Additional text 3	
Additional text 4		Additional text 5	
Additional text 6		Additional text 7	
Additional text 8		Additional text 9	
Name	 SDIAG_ALCAT_ECH_ERR_MSG_0116	Type	PLC alarm
ID	40	Location	PLC_1
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement	Acknowledgment	False
Information only	False	Priority	0
Report	False	Created by	System diagnostics
Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM
Group ID	0	Additional text 1	PLC_1
Additional text 2		Additional text 3	
Additional text 4		Additional text 5	
Additional text 6		Additional text 7	
Additional text 8		Additional text 9	
Name	 SDIAG_ALCAT_CH_MD_MSG_0118	Type	PLC alarm
ID	41	Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement	Acknowledgment	False
Information only	False	Priority	0
Report	False	Created by	System diagnostics
Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM
Group ID	0	Additional text 1	PLC_1
Additional text 2		Additional text 3	
Additional text 4		Additional text 5	
Additional text 6		Additional text 7	
Additional text 8		Additional text 9	
Name	 SDIAG_ALCAT_ECH_MD_MSG_0119	Type	PLC alarm
ID	42	Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement	Acknowledgment	False
Information only	False	Priority	0
Report	False	Created by	System diagnostics
Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM
Group ID	0	Additional text 1	PLC_1
Additional text 2		Additional text 3	
Additional text 4		Additional text 5	
Additional text 6		Additional text 7	
Additional text 8		Additional text 9	
Name	 SDIAG_ALCAT_CH_MR_MSG_011B	Type	PLC alarm
ID	43	Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement	Acknowledgment	False
Information only	False	Priority	0
Report	False	Created by	System diagnostics
Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM
Group ID	0	Additional text 1	PLC_1
Additional text 2		Additional text 3	
Additional text 4		Additional text 5	

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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	


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


PLC alarm text lists

This folder is empty.

Totally Integrated Automation Portal					
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Local modules					
PLC_1 [CPU 1515TF-2 PN]					
PLC_1					
General\Project information					
Name	PLC_1	Author	PLC Traning	Comment	
Rack	0	Slot	1		
General\Catalog information					
Short designation	CPU 1515TF-2 PN	Description	Fail-safe technology CPU with display; work memory 750 KB code and 3 MB data; can be used for safety applications; supports consistent safety up-load; 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		
Fail-safe\F-activation					
F-capability activated	1				
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	
PROFINET interface [X1]\F-parameters					
Default F-monitoring time for F-I/O of this interface	150ms				
PROFINET interface [X1]\Ethernet addresses\Interface networked with					
Subnet:	Not connected				
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				
PROFINET interface [X1]\Advanced options\Real time settings\Synchronization					
RT class:	RT,IRT				
PROFINET interface [X1]\Advanced options\Real time settings\Real time options					
Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General					
Name	Port_1	Author	PLC Traning	Comment	

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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 Training	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 Training	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	Resolution	240x260
Company logo	---				
User interface languages					
Assign project language			User interface languages		
English (United States)			German		
English (United States)			English		
English (United States)			French		
English (United States)			Spanish		
English (United States)			Italian		
English (United States)			Japanese		
English (United States)			Chinese (simplified)		
English (United States)			Korean		
English (United States)			Russian		
English (United States)			Turkish		
English (United States)			Portuguese (Brazil)		
Time of day\Local time					
Time zone	(UTC) Dublin, Edinburgh, Lisbon, London				
Time of day\Daylight saving time					
Activate daylight saving time	True	Difference between standard and daylight saving time	60mins		
Time of day\Daylight saving time\Start of daylight saving time					
Selection of the week	Last	Selection of the weekday	Sunday	of	March
at	01:00 a.m.				
Time of day\Daylight saving time\Start of standard time					
Selection of the week	Last	Selection of the weekday	Sunday	of	October
at	02:00 a.m.				
Protection					
Level of protection	Full access with fail-safe (no protection) 				
Protection\Connection mechanisms					
Permit access with PUT/GET communication from remote partner	False				
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					
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 update	-	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 Training	Comment	
Rack	0	Slot	2		
General\Catalog information					
Short designation	F-DI 16x24V DC	Description	Digital input module DI 16x24VDC, PROFIsafe V2, fail-safe	Article number	6ES7 526-1BH00-0AB0
Firmware version	V1.0				
General\Identification & Maintenance					
Plant designation		Location identifier		Installation date	2023-02-16 08:18:38.432
Additional information					
Module parameters\General\Startup					
Comparison preset to actual module	From CPU				
Inputs 0 - 15\General					
Name	F-DI 16x24V DC_1	Comment			
Inputs 0 - 15\F-parameters					
Manual assignment of F-monitoring time	False	F-monitoring time	150ms	F-source address	1
F-destination address	65534	F-parameter signature (with addresses)	55940	F-parameter signature (without addresses)	49479
Behavior after channel fault	Passivate channel	Reintegration after channel fault	All channels manually	RIOforFA safety	Yes
PROFIsafe mode	V2 mode	PROFIsafe protocol version	Expanded protocol (XP)	F-I/O DB manual number assignment	Automatic
F-I/O DB-number	30002	F-I/O DB-name	F00000_F-DI16x24VDC_1		
Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 0					
Supplied channels	Channels [0...3]	Short-circuit test activated	Yes	Time for short-circuit test	4.2ms
Startup time of sensor after short-circuit test	4.2ms				
Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 1					
Supplied channels	Channels [4...7]	Short-circuit test activated	Yes	Time for short-circuit test	4.2ms
Startup time of sensor after short-circuit test	4.2ms				
Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 2					
Supplied channels	Channels [8...11]	Short-circuit test activated	Yes	Time for short-circuit test	4.2ms
Startup time of sensor after short-circuit test	4.2ms				
Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 3					
Supplied channels	Channels [12...15]	Short-circuit test activated	Yes	Time for short-circuit test	4.2ms
Startup time of sensor after short-circuit test	4.2ms				
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8					
Sensor evaluation	1oo2 evaluation, equivalent	Discrepancy behavior	Supply value 0	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 acknowledgement	Manual
Pulse extension	---sec				
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 0\Chatter monitoring					
Chatter monitoring	No	Number of signal changes	5	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 8\Input parameters					
Channel activated	Yes	Input delay	3.2ms	Channel failure acknowledgement	Manual
Pulse extension	---sec				
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 8\Chatter monitoring					
Chatter monitoring	No	Number of signal changes	5	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9					
Sensor evaluation	1oo2 evaluation, equivalent	Discrepancy behavior	Supply value 0	Discrepancy time	5ms
Reintegration after discrepancy error	Test 0-Signal not necessary				
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 1\Input parameters					
Channel activated	Yes	Input delay	3.2ms	Channel failure acknowledgement	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 type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 9\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10							
Sensor evaluation	1oo2 evaluation, equivalent	<input type="checkbox"/>	Discrepancy behavior	Supply value 0	<input type="checkbox"/>	Discrepancy time	5ms
Reintegration after discrepancy error	Test 0-Signal not necessary	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 2\Input parameters							
Channel activated	Yes	<input type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 2\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 10\Input parameters							
Channel activated	Yes	<input type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 10\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11							
Sensor evaluation	1oo2 evaluation, equivalent	<input type="checkbox"/>	Discrepancy behavior	Supply value 0	<input type="checkbox"/>	Discrepancy time	5ms
Reintegration after discrepancy error	Test 0-Signal not necessary	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 3\Input parameters							
Channel activated	Yes	<input type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 3\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 11\Input parameters							
Channel activated	Yes	<input type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 11\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12							
Sensor evaluation	1oo2 evaluation, equivalent	<input type="checkbox"/>	Discrepancy behavior	Supply value 0	<input type="checkbox"/>	Discrepancy time	5ms
Reintegration after discrepancy error	Test 0-Signal not necessary	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 4\Input parameters							
Channel activated	Yes	<input type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 4\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 12\Input parameters							
Channel activated	Yes	<input type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 12\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13							
Sensor evaluation	1oo2 evaluation, equivalent	<input type="checkbox"/>	Discrepancy behavior	Supply value 0	<input type="checkbox"/>	Discrepancy time	5ms
Reintegration after discrepancy error	Test 0-Signal not necessary	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 5\Input parameters							
Channel activated	Yes	<input type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 5\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 13\Input parameters							
Channel activated	Yes	<input type="checkbox"/>	Input delay	3.2ms	<input type="checkbox"/>	Channel failure ac-knowledge	Manual
Pulse extension	---sec	<input type="checkbox"/>					
Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 13\Chatter monitoring							
Chatter monitoring	No	<input type="checkbox"/>	Number of signal changes	5	<input type="checkbox"/>	Monitoring window	2sec
Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14							
Sensor evaluation	1oo2 evaluation, equivalent	<input type="checkbox"/>	Discrepancy behavior	Supply value 0	<input type="checkbox"/>	Discrepancy time	5ms
Reintegration after discrepancy error	Test 0-Signal not necessary	<input type="checkbox"/>					

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

Totally Integrated Automation Portal					
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Local modules F-DQ 8x24V DC/2A PPM_1					
F-DQ 8x24V DC/2A PPM_1					
General\Project information					
Name	F-DQ 8x24V DC/2A PPM_1	Author	PLC Training	Comment	
Rack	0	Slot	3		
General\Catalog information					
Short designation	F-DQ 8x24V DC/2A PPM	Description	Digital output module DQ 8x24VDC/2A PPM, PROFIsafe V2, fail-safe	Article number	6ES7 526-2BF00-0AB0
Firmware version	V1.0				
General\Identification & Maintenance					
Plant designation		Location identifier		Installation date	2023-02-16 08:56:43.377
Additional information					
Module parameters\General\Startup					
Comparison preset to actual module	From CPU				
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-source address	1
F-destination address	65533	F-parameter signature (with addresses)	19032	F-parameter signature (without addresses)	4277
Behavior after channel fault	Passivate channel	Reintegration after channel fault	All channels manually	RIOforFA safety	Yes
PROFIsafe mode	V2 mode	PROFIsafe protocol version	Expanded protocol (XP)	F-I/O DB manual number assignment	Automatic
F-I/O DB-number	30003	F-I/O DB-name	F00009_F-DQ8x24VDC/2APPM_1		
Outputs 0 - 7\Outputs\Operating mode					
Maximum test period	1000sec	Operating mode of the output	PM-switching mode		
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				

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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					

Totally Integrated Automation Portal					
Safety PLC example / PLC_1 [CPU 1515TF-2 PN] / Local modules DI 16x24VDC BA_1					
DI 16x24VDC BA_1					
General\Project information					
Name	DI 16x24VDC BA_1	Author	PLC Training	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				

Safety PLC example

Ungrouped devices

This folder is empty.

Safety PLC example

Security settings

This folder is empty.

Safety PLC example / Cross-device functions / Project traces

Measurements

This folder is empty.

Safety PLC example / Common data





Alarm classes

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

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-O4DT62GIPLC Tran- ing
	F-activation for the CPU PLC_1 was disabled	2/12/2023	3:00:10 PM	DESKTOP-O4DT62GIPLC Tran- ing
	F-activation for the CPU PLC_1 was enabled	2/12/2023	3:00:12 PM	DESKTOP-O4DT62GIPLC Tran- ing
	F-activation for the CPU PLC_1 was enabled	2/12/2023	3:00:12 PM	DESKTOP-O4DT62GIPLC Tran- ing

Totally Integrated Automation Portal									
<p data-bbox="149 216 932 267">Safety PLC example / Languages & resources</p> <p data-bbox="149 281 428 326">Project languages</p> <table border="1" data-bbox="149 341 2026 608"><tr><td data-bbox="149 341 2026 379">Languages</td></tr><tr><td data-bbox="149 379 2026 418">Reference language</td></tr><tr><td data-bbox="149 418 2026 457">English (United States)</td></tr><tr><td data-bbox="149 457 2026 495">Editing language</td></tr><tr><td data-bbox="149 495 2026 534">English (United States)</td></tr><tr><td data-bbox="149 534 2026 572">Other project languages</td></tr><tr><td data-bbox="149 572 2026 608">Empty</td></tr></table>			Languages	Reference language	English (United States)	Editing language	English (United States)	Other project languages	Empty
Languages									
Reference language									
English (United States)									
Editing language									
English (United States)									
Other project languages									
Empty									

Safety PLC example / Languages & resources / Project texts

Project texts

Project texts		
English (United States)	Category	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\FG2H_EN [FB32781]\Block comment
	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety \Compiler blocks\FGFDBACK [FB32782]\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\Main_Safety_RTG1 [FB1]\Network 6\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_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_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_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_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_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_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_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_: 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 \Compiler blocks\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_: Feedback monitoring	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety \Compiler blocks\F_FDBACK [FB216]\Block title
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 \Compiler blocks\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 runtime	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 \Compiler blocks\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
F_: Two-hand monitoring with enable	Block comment	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety \Compiler blocks\F_2H_EN [FB211]\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_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_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

Totally Integrated Automation Portal			
English (United States)	Category	Reference	
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_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_IN_2_0_0_0_0_0_0_2_1_0_1_23 [FB32768]\IPAR_OK	
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	
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	