

Totally Integrated
Automation Porta

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TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC

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TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC

Project							
Name:	TRAF-	Creation time:	01/29/2025 07:02:13	Last change	04/03/2025 11:51:34	Author:	Admin
	FIC_LIGHTS_BRIDGE_CROSS-						
	ING_SCL_BASIC						
Last modified	Admin	Version:					
by:							
Comment:		-	-				

Operating system				
Name	Description			
Operating system	Microsoft Windows 11 Enterprise			
Version of the operating system	10.0.22000.0			
Operating system service pack				
Version of the Internet Explorer	11.1.22000.0			
Computer name	SIEMENS-VM			
User name	SIEMENS-VM\Admin			
Installation path of the TIA Portal	C:\Program Files\Siemens\Automation\Portal V19			

Components		
Name	Version	Release
HelpViewer_WebApp - HelpViewer_WebApp V1.0 (HVWebApp)	V1.0	V01.00.00.00_02.00.00.58
TIA Portal Project Server V17 - TIA Portal Project Server Single SetupPackage V17.0 Upd7 (MUSERVERV17)	V17.0 + Upd7	V17.00.00.07_05.01.00.06
S7-PLCSIM - S7-PLCSIM Setup V18.0 SP2 (PLCSIM_V18)	V18.0 + SP2	V18.00.02.00_09.13.00.01
S7-PLCSIM - S7-PLCSIM Setup V19.0 Upd1 (PLCSIM_V19)	V19.0 + Upd1	V19.00.00.01_06.04.00.01
TIA Portal Project Server - TIA Portal Project Server Single SetupPackage V1.2 (ProjectServer)	V1.2	V01.02.00.00_00.00.04.16
SIMATIC S7-PLCSIM (S7_PLCSIM_V17)	V17.0	V17.00.00.00_43.02.00.01
Siemens Totally Integrated Automation Portal V17 - SIMATIC S7-PLCSIM V17.0 + SP0 + Upd1 (S7_PLCSIM_V17)	V17.0 + SP0 + Upd1	V17.00.00.01_01.00.16.01
AWB Host - TIAAdminV3 SP5 V3.0 SP5 (TIAAdminV3)	V3.0 + SP5	V03.00.05.00_01.01.00.22
AWB Host - Automation License Manager Plugin V3.0 + SP5 (TIAAdminV3)	V3.0 + SP5	V03.00.05.00_01.01.00.22
AWB Host - Software Management Plugin V3.0 + SP5 (TIAAdminV3)	V3.0 + SP5	V03.00.05.00_01.01.00.22
AWB Host - TIA Addin V3.0 + SP5 (TIAAdminV3)	V3.0 + SP5	V03.00.05.00_01.01.00.22
AWB Host - Central User Management Plugin V3.0 + SP5 (TIAAdminV3)	V3.0 + SP5	V03.00.05.00_01.01.00.22

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Name	Version	Release
Totally Integrated Automation Portal V19 - TIA Portal Single SetupPackage V19.0 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - HelpViewer Server V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - HM All Editions Single SetupPackage V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - HM NoBasic Single SetupPackage V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - Hardware Support Base Package 0 V19.0 (TIAP19)	V19.0	V19.00.00.00_66.01.00.07
Siemens Totally Integrated Automation Portal V19 - Multiuser Client Single SetupPackage V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - Version Control Interface SetupPackage V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - STEP 7 Safety Single SetupPackage V19.0 UPD1 (TIAP19)	V19.0 UPD1	V19.00.00.01_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - SESSP Single Setup- Package V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - STEP 7 Single Setup- Package V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - Hardware Support Base Package 02 V19.0 (TIAP19)	V19.0	V19.00.00_66.01.00.07
Siemens Totally Integrated Automation Portal V19 - Hardware Support Base Package 03 V19.0 (TIAP19)	V19.0	V19.00.00_66.01.00.07
Siemens Totally Integrated Automation Portal V19 - Hardware Support Base Package 04 V19.0 (TIAP19)	V19.0	V19.00.00.00_66.01.00.07
Siemens Totally Integrated Automation Portal V19 - Support Base Package TO-01 V19.0 (TIAP19)	V19.0	V19.00.00_66.01.00.07
Siemens Totally Integrated Automation Portal V19 - Support Base Package TO-02 V19.0 (TIAP19)	V19.0	V19.00.00.00_66.01.00.07
Siemens Totally Integrated Automation Portal V19 - Hardware Support Base Package WCF-01 V19.0 (TIAP19)	V19.0	V19.00.00.00_66.01.00.07
Siemens Totally Integrated Automation Portal V19 - TIACOMPCHECK Single SetupPackage V19.0 + Upd3 (TIAP19)	V19.0 + Upd3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - TIA Portal Security Audit Log Single SetupPackage V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - TIA Portal Shim Single SetupPackage V19.0 (TIAP19)	V19.0	V19.00.00_68.01.00.03

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Name	Version	Release
Siemens Totally Integrated Automation Portal V19 - Simatic Single Setup- Package V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - WinCC Basic ES Single SetupPackage V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - WinCC CA ES Single SetupPackage V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
Siemens Totally Integrated Automation Portal V19 - Openness SetupPackage V19.0 UPD3 (TIAP19)	V19.0 UPD3	V19.00.00.03_05.01.00.01
User Management Component - UserManagementComponentx64 V2.13 SP1 (UMC64)	V2.13 + SP1	V02.13.01.00_00.00.001
User Management Component - umtrayiconx64 V2.13 + SP1 (UMC64)	V2.13 + SP1	V02.13.01.00_00.00.00.01
WinCC Runtime Advanced V17.0 - SIMATIC WinCC Runtime Advanced V17.0 (HMIRTM_V11)	V17.0 UPD8	V17.00.00.08_04.01.00.01
WinCC Runtime Advanced V17.0 - HMIRTM Tagging Package 01 Single SetupPackage V17.0 UPD8 (HMIRTM_V11)	V17.0 UPD8	V17.00.00.08_04.01.00.01
PLCSIM Advanced Single SetupPackage - PLCSIM Advanced Single Setup- Package V6.0 Upd1 (PLCSIMADV)	V6.0 + Upd1	V06.00.00.01_01.01.00.31
SIMATIC S7-PCT - SIMATIC S7-PCT V3.5 SP3 Upd6 (S7PCT)	V3.5 + SP3 + Upd6	V03.05.03.06_04.01.00.01
Siemens Totally Integrated Automation Portal V19 - Simatic Single Setup- Package 32 Bit V19.0 (TIAP19)	V19.0	V19.00.00.00_68.01.00.03
AddinRolloutService	19.0.0.3	V19.00.00.03_05.01.00.01
SIMATIC HMI License Manager Panel Plugin (x64)	19.0.0.0	V19.00.00_68.01.00.03
Automation Access Control Component x64	5.0	K05.01.01.02_90.01.00.77
SIMATIC WinCC Runtime Advanced Driver (x64)	19.0.0.0	V19.00.00_68.01.00.03
ETWEventCollector	19.0.0.0	V19.00.00_68.01.00.03
SIMATIC NCM FWL 64	5.6.0.3	K5.6.0.3_1.1.0.2
NCM GPRS 64	01.02.01.00	V1.2.1.0_1.1.0.3
SIMATIC PLCSIM 64	19.00.00	19.00.00.00_01.07.00.01
SIMATIC PLCSIM Advanced Driver64	6.0.0.1	V06.00.00.01_01.01.00.31
SIMATIC Device Drivers	9.4	09.04.00.02_01.01.00.02
TelemetryConnector	2.2.0.17	V02.02.00.17_01.00.00.00
Automation Access Control Component	5.0	K05.01.01.02_90.01.00.77
Automation Software Updater	02.05.0000	V02.05.00.00_01.03.00.02
SIEMENS OPC	3.9	03.09.12.02_01.01.00.04
SIMATIC PLCSIM Advanced SimRT	6.0.0.1	V06.00.00.01_01.01.00.31
SIMATIC HMI ProSave	19.0.0.0	V19.00.00.00_68.01.00.03
SIMATIC HMI Symbol Library	17.0.0.8	V17.00.00.08_04.01.00.01
SIMATIC HMI Touch Input	17.0.0.8	V17.00.00.08_04.01.00.01

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Name	Version	Release
SIMATIC Device Drivers WoW	29.4	29.04.00.02_01.01.00.02
SIMATIC Event Database	5.7	05.07.02.02_01.01.00.01
SeCon	2.9	V02.09.00.00_01.03.00.01
WinCC Runtime Advanced Simulator	17.0.0.0	V17.00.00.00_43.02.00.01

Products		
Name	Version	Release
TIA Portal Help Viewer	V1.0	V01.00.00.00_02.00.00.43
TIA Portal Project Server	V17.0 Upd7	V17.00.00.07_05.01.00.06
S7-PLCSIM	V18 SP2	18.00.02.00_09.13.00.01
S7-PLCSIM	V19 Upd1	19.00.00.01_06.04.00.01
TIA Portal Project Server	V1.2	V01.02.00.00_00.00.04.16
SIMATIC S7-PLCSIM	V17.0 Upd1	V17.00.00.01_01.00.16.01
TIA Administrator	V3.0.5.0	V03.00.05.00_01.01.00.22
SIMATIC WinCC Panel Images	V17.0 Upd8	V17.00.00.08_04.01.00.01
SIMATIC WinCC Legacy Panel Images	V17.0	V17.00.00.00_43.02.00.01
SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Adv	V17.0 Upd8	V17.00.00.08_04.01.00.01
SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Adv	V18.0 Upd5	V18.00.01.05_04.01.00.01
SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Adv + Unified + Prof	V19.0 Upd3	V19.00.00.03_05.01.00.01
User Management Component	V2.13 Sp1 Upd0	V02.13.01.00_00.00.00.01
UMC Status Application	V2.13 Sp1 Upd0	V02.13.01.00_00.00.00.01
SIMATIC WinCC Runtime Advanced Simulation	V17.0 Upd8	V17.00.00.08_04.01.00.01
S7-PLCSIM Advanced	V6.0 Upd1	V06.00.00.01_01.01.00.31
S7-PCT	V3.5 SP3 Upd6	V03.05.03.06_04.01.00.01
Automation License Manager	V6.2 + Upd3	06.02.00.03_00.00.00.09
S7-PLCSIM	V5.4 + SP8 + Upd2	V05.04.08.02_02.40.00.01
SIMATIC ProSave	V19.0	V19.00.00.00_68.01.00.03
S7-PCT	V3.5 SP3 Upd6	K3.5.3.6_4.1.0.1

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TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC

TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]

TRAFFIC_LIGHTS_PLO					
Project information					
Name	TRAFFIC_LIGHTS_PLC	Author	Admin	Comment	
Slot	1	Rack	0		
Catalog information					
Short designation	CPU 1215C DC/DC/DC	Description	Work memory 200 KB; 24VDC power supply with DI14 x 24VDC SINK/SOURCE, DQ10 x 24VDC and AI2 and AQ2 on board; 6 high-speed counters and 4 pulse outputs on-board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 8 signal modules for I/O expansion; PROFINET IO controller, 2 ports, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, OPC UA: Server DA	Article number	6ES7 215-1AG40-0XB0
Firmware version	V4.6		False		

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Connection resources\				
	Station resources - Reserved - Max- imum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] - Configured
Maximum number of resources:		34	34	68
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	12	0	0	0
S7 communication:	8	0	0	0
Open user communication:	8	0	0	0
Web communication:	2	-	-	-
OPC UA client/server communica-	0	-	-	-
tion:				
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		34	34	68

Overview of addresses	s\Overview of addresses\Overview of	addresses			
Inputs	True	Outputs	True	Address gaps	False
Slot	True				

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Гуре	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO sys- tem	Rack	Slot
	0	1	DI 14/DQ 10_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	2 Bytes	-	0	1 1
)	0	1	DI 14/DQ 10_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	2 Bytes	-	0	1 1
	64	67	AI 2/AQ 2_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]		4 Bytes	-	0	1 2
)	64	67	AI 2/AQ 2_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 2
	1000	1003	HSC_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 16
	1004	1007	HSC_2	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 17
	1008	1011	HSC_3	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 18
	1012	1015	HSC_4	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 19
	1016	1019	HSC_5	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 20
	1020	1023	HSC_6	Automatic up- date	TRAF- FIC_LIGHTS_PLC		4 Bytes	-	0	1 21

Туре	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO sys- tem	Rack	Slot
					[CPU 1215C DC/DC/DC]					
)	1000	1001	Pulse_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	2 Bytes	-	0	1 32
)	1002	1003	Pulse_2	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	2 Bytes	-	0	1 33
0	1004	1005	Pulse_3	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	2 Bytes	-	0	1 34
)	1006	1007	Pulse_4	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	2 Bytes	-	0	1 35

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Program I Main [OB1]		CROSSING_	_SCL_BASIC	/TRA	FFIC_LIGH	HTS_PL	C [CPU 121	5C DC/DC/I	DC] /
Main Properties									
General									
Name	Main	Number	1		Туре	ОВ		Language	LAD
Numbering	Automatic								
Information									
Title	"Main Program Sweep (Cy-cle)"	Author			Comment			Family	
Version	0.1	User-defined ID							
Name				Data typ	oe .		Default value		
▼ Input									
Initial_Call				Bool					
Remanend	ce			Bool					
Temp									
Constant									
	====== PR	OGRAM_INFO	RMATION ====	=====	=====				
0001 (*									
0002 =====				======					
0003 *****	TRAFFIC LIGHTS - BR	IDGE CROSSING	J WITHOUT PUSE	H BOLL	ONS ****				
0004 =====									
	orkstation WS01								
	C DC/DC/DC - 6ES721	5-1AG40-0XB0							
	192.168.0.175/24	0 1110 10 01120							
	way: 192.168.0.1								
0010	<u> </u>								
0011 =====									
0012									

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	## WFB1 #FB001-Traffic_Control ## WFB1 #FB001-Traffic_Control EN ## ZEftSide_Green ## ZEftSide_Green ## ZEftSide_Green ## ZEftSide_Red ## ZEft_RedLED ## ZEftSide_Red ## ZEftSide_Red	

Totally Integ								
DB001-PL0	_LIGHTS_BRIDGE_ blocks / WS01_T\ C_I/O [DB1]	_CROSSING_ VET_Workst	_SCL_ cation	BASIC / TRA / 00-I/O_Ma	\FFIC_LIG	GHTS_PLC [C	PU 1215C DC/DC	[/DC] /
B001-PLC_I/O) Properties							
General	DD001 DLC 1/0							
Name					-	D.D.	•	D.D.
	DB001-PLC_I/O	Number	1		Туре	DB	Language	DB
lumbering	Automatic	Number	1		Туре	DB	Language	DB
Numbering nformation			1			DB	,, ,	DB
Numbering Information Title	Automatic	Author	1		Type	DB	Language Family	DB
Numbering nformation Fitle			1			DB	,, ,	DB
Numbering Information Title Version	Automatic	Author	1	Data type		DB Start value	,, ,	DB Retain
Numbering Information Title Version	Automatic	Author	1	Data type			,, ,	
Numbering Information Title Version Name Static PLC_Inpu	Automatic 0.1	Author		Data type Struct			,, ,	

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TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / Program blocks / WS01_TVET_Workstation / 00-I/O_Mapping FC001-PLC_I/O_Handler [FC1]										
FC001-PLC_I/O_I	Handler Pro	perties								
General	_						, in the second		.,	
Name		C_I/O_Handler	Number	1		Туре	FC		Language	LAD
Numbering Information	Automatic									
Title			Author			Comment			Family	
Version	0.1		User-defined ID)		Comment			ı unmy	
Name					Data typ	pe		Default value		
Input Output										
InOut										
▼ Temp										
rAl0.0_Te	mn				Real					
rAI0.1_Te	•				Real					
rAQ0.0_Te					Real					
rAQ0.1_Te					Real					
Constant	<u> </u>									
▼ Return										
FC001-PL0	C_I/O_Hand	ler			Void					
Network 1: =	=====	===== DI	GITAL_INPUTS	5 =======	=====					
			1							
								 1		

Network 2: BANK_0

> DI0.0 - DI0.7

```
"DB001-PLC_I/O".
PLC_Inputs."xDI0.
0"
   %M1.2
                         %10.0
"AlwaysTRUE"
                        "DI0.0"
                                                                                         →
                                                                                   "DB001-PLC_I/O".
PLC_Inputs."xDI0.
1"
                         %10.1
                        "DI0.1"
                                                                                         →
                                                                                   "DB001-PLC_I/O".
                                                                                   PLC_Inputs."xDI0.
2"
                         %10.2
                        "DI0.2"
                                                                                   "DB001-PLC_I/O".
                         %10.3
                                                                                   PLC_Inputs."xDI0.
3"
                        "DI0.3"
                                                                                   "DB001-PLC_I/O".
                                                                                   PLC_Inputs."xDI0.
                         %10.4
                        "DI0.4"
                                                                                   "DB001-PLC_I/O".
                                                                                   PLC_Inputs."xDI0.
5"
                         %10.5
                        "DI0.5"
                                                                                   "DB001-PLC_I/O".
                                                                                   PLC_Inputs."xDI0.
                         %10.6
                        "DI0.6"
                                                                                   "DB001-PLC_I/O".
PLC_Inputs."xDI0.
                         %10.7
                        "DI0.7"
```

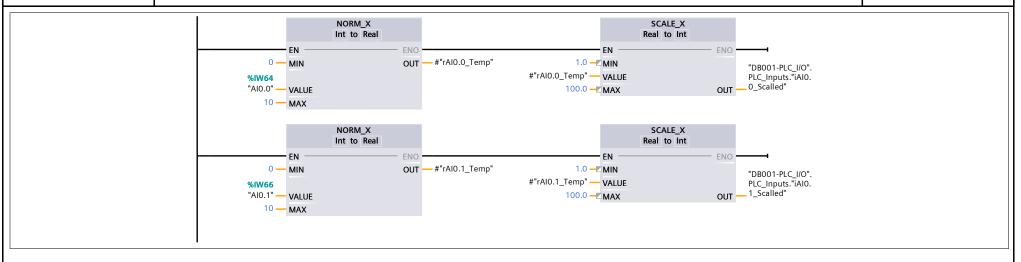
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Network 3: BANK_1		•
> DI1.0 - DI1.5		
	"DB0 *M1.2 %I1.0 PLC_I "AlwaysTRUE" "DI1.0"	01-PLC_I/O". Inputs."xDl1. 0" —()——
	%11.1 PLC_I "DI1.1"	01-PLC_I/O". Inputs."xDI1. 1"
	"DBO PLC_I"	01-PLC_I/O". Inputs."xDI1. 2"
	%I1.3 "DI1.3"	01-PLC_I/O". inputs."xDl1. 3" —()———
	"DB0 %11.4" PLC_I	01-PLC_I/O". Inputs."xDI1. 4"
	"DBO %11.5" "D11.5"	01-PLC_I/O". Inputs."xDl1. 5"
Network 4: =========	DIGITAL_OUTPUTS ==========	

Network 5: BANK_0

> DQ0.0 - DQ0.7

```
"DB001-PLC_I/O".
                                                                                            %Q0.0
"DQ0.0"
   %M1.2
                     PLC_Outputs.x
                     Left_GreenLED
"AlwaysTRUE"
                                                                                             -( }-----
                    "DB001-PLC_I/O".
PLC_Outputs.x
Left_AmberLED
                                                                                            %Q0.1
                                                                                            "DQ0.1"
                    "DB001-PLC_I/O".
                                                                                            %Q0.2 "DQ0.2"
                     PLC_Outputs.x
Left_RedLED
                    "DB001-PLC_I/O".
                    PLC_Outputs.x
Right_GreenLED
                                                                                            %Q0.3
                                                                                            "DQ0.3"
                    "DB001-PLC_I/O".
                   PLC_Outputs.x
Right_AmberLED
                                                                                            %Q0.4
                                                                                            "DQ0.4"
                    "DB001-PLC_I/O".
                     PLC_Outputs.x
                                                                                            %Q0.5
                     Right_RedLED
                                                                                            "DQ0.5"
                    "DB001-PLC_I/O".
                    PLC_Outputs."x
DQ0.6"
                                                                                            %Q0.6
                                                                                            "DQ0.6"
                    "DB001-PLC_I/O".
PLC_Outputs."x
                                                                                            %Q0.7
                         DQ0.7"
                                                                                            "DQ0.7"
                                                                                             \leftarrow
```

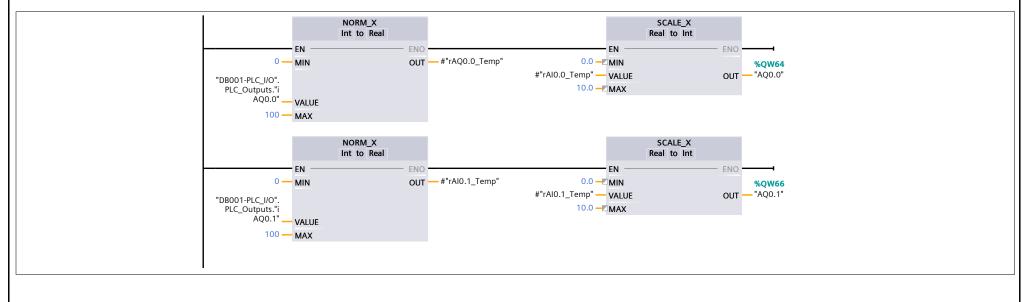
Totally Integrated Automation Portal		
Network 6: BANK_1		
> DQ1.0 - DQ1.1		
	"DB001-PLC_I/O". PLC_Outputs."x	
Network 7: ======	======= ANALOG_PROCESSING ===========	
Network 8: ANALOG_	INPUTS	
> 0V to 10V Analog Scalli > change MIN/MAX value	ng s accordingly	



Network 9: ANALOG_OUTPUTS

> 0V to 10V Analog Scalling

> change MIN/MAX values accordingly



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Automation Portal	

TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / Program blocks / WS01_TVET_Workstation / 01-Traffic_Logic

FB001-Traffic_Control [FB1]

FB001-Traffic_	FB001-Traffic_Control Properties							
General	General							
Name	FB001-Traffic_Control	Number	1	Туре	FB	Language	SCL	
Numbering	Manual							
Information	Information							
Title		Author		Comment		Family		
Version	0.1	User-defined ID						

Name	Data type	Default value	Retain
Input			
▼ Output			
xLeftSide_Green	Bool	false	Non-retain
xLeftSide_Red	Bool	false	Non-retain
xRightSide_Green	Bool	false	Non-retain
xRightSide_Red	Bool	false	Non-retain
InOut			
▼ Static			
xFirstScan	Bool	false	Non-retain
iState	Int	0	Non-retain
TONs	Struct		Non-retain
Temp			
▼ Constant			
3sec	Time	t#3s	
5sec	Time	t#5s	
10sec	Time	t#10s	

0001 REGION OPENING_COMMENTS

0002

0003 * BASIC PROGRAM OPERATION:

 $\,$ 0004 $\,$ * On startup - both sides start with GREEN LEDs OFF and RED LEDs ON for 5sec.

```
0005 *
0006 * After the initial 5sec has elapsed, left side switches to GREEN ON (RED OFF) for 10sec.
0007 * After 10sec has elapsed, left side switches to RED ON (GREEN OFF) for 3sec.
* 8000
0009 * After 3sec has elapsed, right side switches to GREEN ON (RED OFF) for 10sec.
0010 * After 10sec has elapsed, right side switches to RED ON (GREEN OFF) for 3sec.
0011 *
0012 * Process repeats.
0013 *
0014 * STATES:
0015 * 0 - Both sides RED for 5sec
0016 * 1 - Left side GREEN & Right side RED for 10sec
0017 * 2 - Both sides RED for 3 sec (left switch)
0018 * 3 - Right side GREEN & Left side RED for 10 sec
0019 * 4 - Both sides RED for 3 sec (right switch)
0020 *)
0021 END REGION
0022
0023
0024 REGION FIRST SCAN
0025
      // Catch first PLC scan
0026
      IF "FirstScan" THEN
0027
       #xFirstScan := TRUE;
0028
      END IF;
0029
0030
      // First PLC scan caught
0031
      IF #xFirstScan THEN
0032
      // Start the inital delay timer & move to the next state
0033
         #TONs.tInitial Delay(IN := TRUE,
                                             // timer input on
0034
                   PT := \#"5sec"); // 5sec duration
0035
         #iState := 0; // initialize the state to 0
0036
      END IF;
0037 END REGION
0038
0039
0040 REGION STATE MACHINE
0041
      // LED State Machine
0042
      CASE #iState OF
0043
        0: // Initial state - both sides red for 5 sec
```

```
0044
           #xLeftSide Green := FALSE; // left green off
0045
           #xRightSide Green := FALSE; // right green off
0046
           #xLeftSide Red := TRUE;
                                       // left red on
           #xRightSide Red := TRUE;
0047
                                       // right red on
0048
0049
           // Reset xFirstScan flag
0050
           IF #xFirstScan THEN
             #xFirstScan := FALSE;
0051
0052
           END IF;
0053
           // Wait for Initial Delay TON output
0054
           IF #TONs.tInitial Delay.Q THEN
0055
             // Start the left green LED delay timer
0056
             #TONs.tLeftGreen Delay(IN := TRUE,
0057
                                                     // timer input on
0058
                          PT := #"10sec"); // 10sec duration
0059
             // Reset initial timer & move to the next state
             RESET TIMER(TIMER := #TONs.tInitial Delay);
0060
             #iState := 1;
0061
0062
           END IF;
0063
           ;
0064
         1: // Left side green & right side red for 10 sec
           #xLeftSide Green := TRUE; // left green on
0065
           #xRightSide Green := FALSE; // right green off
0066
           #xLeftSide Red := FALSE; // left red off
0067
           #xRightSide Red := TRUE; // right red on
0068
0069
0070
           // Wait for left green TON ouput
           IF #TONs.tLeftGreen Delay.Q THEN
0071
0072
             // Start the left red LED delay timer
             #TONs.tLeftRed Delay(IN := TRUE,
0073
                                                  // timer input on
0074
                        PT := #"3sec"); // 3sec duration
0075
             // Reset left green timer & move to the next state
0076
             RESET TIMER(TIMER := #TONs.tLeftGreen Delay);
0077
             #iState := 2;
0078
           END IF;
0079
0800
         2: // Both sides red for 3 sec (left switch)
0081
           #xLeftSide Green := FALSE; // left green off
           #xRightSide Green := FALSE; // right green off
0082
```

```
0083
                                       // left red on
           #xLeftSide Red := TRUE;
0084
           #xRightSide Red := TRUE;
                                       // right red on
0085
0086
           // Wait for left red TON output
0087
           IF #TONs.tLeftRed Delay.Q THEN
             // Start the right green LED delay timer
0088
             #TONs.tRightGreen Delay(IN := TRUE,
0089
                                                      // timer input on
                         PT := #"10sec"); // 10sec duration
0090
             // Reset left red timer & move to the next state
0091
0092
             RESET TIMER(TIMER := #TONs.tLeftRed Delay);
0093
             #iState := 3;
0094
           END IF;
0095
0096
         3: // Right side green & left side red for 10 sec
0097
           #xLeftSide Green := FALSE; // left green off
           #xRightSide Green := TRUE; // right green on
0098
0099
           #xLeftSide Red := TRUE;
                                      // left red on
           #xRightSide Red := FALSE; // right red off
0100
0101
0102
           // Wait for right green TON output
           IF #TONs.tRightGreen Delay.Q THEN
0103
0104
             // Start the right red LED delay timer
0105
             #TONs.tRightRed Delay(IN := TRUE,
                                                   // timer input on
0106
                         PT := #"3sec"); // 3sec duration
0107
             // Reset right green timer & move to the next state
             RESET TIMER(TIMER := #TONs.tRightGreen Delay);
0108
             #iState := 4;
0109
0110
           END IF;
0111
0112
         4: // Both sides red for 3 sec (right switch)
0113
           #xLeftSide Green := FALSE; // left green off
0114
           #xRightSide Green := FALSE; // right green off
0115
           #xLeftSide Red := TRUE; // left red on
           #xRightSide Red := TRUE; // right red on
0116
0117
0118
           // Wait for right red TON output
0119
           IF #TONs.tRightRed Delay.Q THEN
0120
             // Start the left green LED delay timer
             #TONs.tLeftGreen Delay(IN := TRUE,
0121
                                                     // timer input on
```

Totally Integrated Automation Portal	

TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / Program blocks / WS01_TVET_Workstation / 01-Traffic_Logic

FB001-Traffic_Control_DB [DB2]

FB001-Traffic_0	FB001-Traffic_Control_DB Properties							
General	General							
Name	FB001-Traffic_Control_DB	Number	2	Туре	DB	Language	DB	
Numbering	Automatic							
Information								
Title		Author		Comment		Family		
Version	0.1	User-defined ID						

Name	Data type	Start value	Retain
Input			
▼ Output			
xLeftSide_Green	Bool	false	False
xLeftSide_Red	Bool	false	False
xRightSide_Green	Bool	false	False
xRightSide_Red	Bool	false	False
InOut			
▼ Static			
xFirstScan	Bool	false	False
iState	Int	0	False
TONs	Struct		False

Totally Integrated Automation Portal	
TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC	C]
Technology objects	
This folder is empty.	
This folder is empty.	

Totally Integrated Automation Portal				
TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_ Default tag table [30]	_BASIC / TRAFFIC_LIGHTS	S_PLC [CPU 1215C DC/D0	C/DC] / PLC tags /	
PLC tags				
PLC tags Name	Data type	Address	Retain	
Hame	outa type	naaress	netum	

Totally Integrated Automation Portal		
TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC/DC/DC/DC/DC/DC/DC/DC/DC/DC/DC/D	C] / PLC tags /
User constants		
User constants		
Name	Data type Value	

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TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / PLC tags / PLC_Inputs [16]

PLC tags

Name	Data type	Address	Retain
DI0.0	Bool	%10.0	False
DI0.1	Bool	%10.1	False
DI0.2	Bool	%10.2	False
DI0.3	Bool	%10.3	False
DI0.4	Bool	%10.4	False
DI0.5	Bool	%10.5	False
DI0.6	Bool	%10.6	False
DI0.7	Bool	%10.7	False
II DI1.0	Bool	%11.0	False
II DI1.1	Bool	%11.1	False
DI1.2	Bool	%11.2	False
DI1.3	Bool	%11.3	False
DI1.4	Bool	%11.4	False
DI1.5	Bool	%I1.5	False
AI0.0	Word	%IW64	False
Al0.1	Word	%IW66	False

Totally Integrated Automation Portal		
TRAFFIC_LIGHTS PLC_Inputs [16]	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC	[] / PLC tags /
User constants		
User constants		
Name	Data type Value	

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Automation Portal	

TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / PLC tags / PLC_Outputs [12]

PLC tags

Name	Data type	Address	Retain
DQ0.0	Bool	%Q0.0	False
DQ0.1	Bool	%Q0.1	False
DQ0.2	Bool	%Q0.2	False
DQ0.3	Bool	%Q0.3	False
DQ0.4	Bool	%Q0.4	False
DQ0.5	Bool	%Q0.5	False
DQ0.6	Bool	%Q0.6	False
DQ0.7	Bool	%Q0.7	False
DQ1.0	Bool	%Q1.0	False
DQ1.1	Bool	%Q1.1	False
AQ0.0	Word	%QW64	False
AQ0.1	Word	%QW66	False

Totally Integrated Automation Portal		
TRAFFIC_LIGHT PLC_Outputs [1	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC 2]	C] / PLC tags /
User constants		
User constants Name	Data type Value	

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TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / PLC tags / System_Tags [14]

PLC tags

Name		Data type	Address	Retain
Cl	ock_Byte	Byte	%MBO	False
Cl	ock_10Hz	Bool	%M0.0	False
Cl	ock_5Hz	Bool	%M0.1	False
ı Cl	ock_2.5Hz	Bool	%M0.2	False
Cl	ock_2Hz	Bool	%M0.3	False
Cl	ock_1.25Hz	Bool	%M0.4	False
Cl	ock_1Hz	Bool	%M0.5	False
Cl	ock_0.625Hz	Bool	%M0.6	False
Cl	ock_0.5Hz	Bool	%M0.7	False
Sy	stem_Byte	Byte	%MB1	False
Fi	stScan	Bool	%M1.0	False
Di	ag Status Update	Bool	%M1.1	False
Al	waysTRUE	Bool	%M1.2	False
Al	waysFALSE	Bool	%M1.3	False

Totally Integrated Automation Portal		
TRAFFIC_LIGHTS System_Tags [1	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/D0 4]	C] / PLC tags /
User constants		
User constants		
Name	Data type Value	

TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / PLC tags / Trigger_Tags [5]

PLC tags

PLC tags					
	Name	Data type	Address	Retain	
1	xAmberTOF_Trig	Bool	%M2.0	False	
1	xTrig2	Bool	%M2.1	False	
-11	xTrig3	Bool	%M2.2	False	
1	xTrig4	Bool	%M2.3	False	
10	xTrig5	Bool	%M2.4	False	

Totally Integrated Automation Portal		
TRAFFIC_LIGHTS Trigger_Tags [5	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	C] / PLC tags /
User constants		
User constants		
Name	Data type Value	

Totally Integrated Automation Portal						
TRAFFIC_LIGHTS PLC data types	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / PLC data types					
System data types						
This folder is empty.						

S_BRIDGE_CROSSING_SCL_BASIC / TRA e tables	AFFIC_LIGHTS_PLC [CPU	J 1215C DC/DC/D	C] /
Address	Display format	Force value	
			S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/Dc e tables Address Display format Force value

Totally Integrated Automation Portal		
TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC	<u> </u>
Traces		
Name		
	T	

Totally Integrated Automation Portal		
TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC	[] / Traces
Measurements		
This folder is empty.		

TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / Traces Combined measurements Name			
Combined measurements	Totally Integrated Automation Portal		
	TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC	[] / Traces
Name	Combined measu	rements	
	Name		
		Г	

Totally Integrated Automation Portal		
TRAFFIC_LIGHT OPC UA commu	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC inication	C] /
Server interfaces		
This folder is empty.		

Totally Integrated Automation Portal		
TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC	[]
PLC alarm text lis	ts	
This folder is empty.		

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TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] / Local modules

TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]

TRAFFIC_LIGHTS_PLC	TRAFFIC_LIGHTS_PLC						
Project information							
Name	TRAFFIC_LIGHTS_PLC	Author	Admin	Comment			
Slot	1	Rack	0				
Catalog information							
Short designation	CPU 1215C DC/DC/DC	Description	Work memory 200 KB; 24VDC power supply with DI14 x 24VDC SINK/SOURCE, DQ10 x 24VDC and AI2 and AQ2 on board; 6 high-speed counters and 4 pulse outputs on-board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 8 signal modules for I/O expansion; PROFINET IO controller, 2 ports, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, OPC UA: Server DA	Article number	6ES7 215-1AG40-0XB0		
Firmware version	V4.6		False				

Totally Integrated Automation Portal				
Connection resources\				
	Station resources - Reserved - Max- imum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] - Configured
Maximum number of resources:		34	34	68
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	12	0	0	0
S7 communication:	8	0	0	0
Open user communication:	8	0	0	0
Web communication:	2	-	-	-
OPC UA client/server communica-	0	-	-	-
tion:				
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		34	34	68

Overview of addresses	Overview of addresses\Overview of addresses\Overview of addresses							
Inputs	True	Outputs	True	Address gaps	False			
Slot	True							

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Гуре	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO sys- tem	Rack	Slot
	0	1	DI 14/DQ 10_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	2 Bytes	-	0	1 1
)	0	1	DI 14/DQ 10_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	2 Bytes	-	0	1 1
	64	67	AI 2/AQ 2_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]		4 Bytes	-	0	1 2
)	64	67	AI 2/AQ 2_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 2
	1000	1003	HSC_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 16
	1004	1007	HSC_2	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 17
	1008	1011	HSC_3	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 18
	1012	1015	HSC_4	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 19
	1016	1019	HSC_5	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]	-	4 Bytes	-	0	1 20
	1020	1023	HSC_6	Automatic up- date	TRAF- FIC_LIGHTS_PLC		4 Bytes	-	0	1 21

Totally Integrated Automation Portal

Туре	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO sys- tem	Rack	Slot
					[CPU 1215C DC/DC/DC]					
Ο	1000	1001	Pulse_1	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]		2 Bytes	-	0	1 32
0	1002	1003	Pulse_2	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]		2 Bytes	-	0	1 33
0	1004	1005	Pulse_3	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]		2 Bytes	-	0	1 34
0	1006	1007	Pulse_4	Automatic up- date	TRAF- FIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]		2 Bytes	-	0	1 35

Totally Integrated Automation Portal		
TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC	
Ungrouped device	es	
This folder is empty.		

Totally Integrated		
Automation Portal		
TRAFFIC LICUT	C DDIDCE CDOCCING CCL DACIC	
	S_BRIDGE_CROSSING_SCL_BASIC	
Security settings		
This folder is empty.		

Totally Integrated		
Automation Portal		
TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC / Cross-device functions / Project traces	
Measurements		
This folder is empty.		
This folder is empty.		

Totally Integrated Automation Portal		
TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC / Cross-device functions / Long-term project	traces
Measurements		
This folder is empty.		
	,	

Totally Integrated Automation Portal	

TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / Common data / Alarm classes

Alarm classes

Alarm classes						
Name	ID	Display name	Acknowledgment	Priority		
Acknowledgement	33	A	True	0		
No Acknowledgement	34	NA	False	0		

Totally Integrated Automation Portal		
TRAFFIC_LIGHT	S_BRIDGE_CROSSING_SCL_BASIC / Common data	
Logs		
This folder is empty.		

Totally Integrated Automation Portal		
TRAFFIC_LIGHT:	S_BRIDGE_CROSSING_SCL_BASIC / Languages & resources	
Project languages		
Languages Reference language English (United States)		
Editing language English (United States)		
Other project languages Empty		

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TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC / Languages & resources / Project texts

Project texts

English (United States)	Category	Reference
-	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\rAI0.1_Temp
-	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\rAl0.0_Temp
-	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\rAQ0.0_Temp
-	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\rAQ0.1_Temp
"Main Program Sweep (Cycle)"	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\Main [OB1]\Block title
======================================	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 7\Title
====== DIGITAL_INPUTS	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 1\Title
====== DIGITAL_OUTPUTS	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 4\Title
====== I/O_HANDLING	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\Main [OB1]\Network 2\Title
======================================	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\Main [OB1]\Network 1\Title
======================================	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\Main [OB1]\Network 3\Title
> 0V to 10V Analog Scalling > change MIN/MAX values accordingly	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 8\Comment

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English (United States)	Category	Reference
> 0V to 10V Analog Scalling > change MIN/MAX values accordingly	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 9\Comment
> Call the PLC I/O Handler Function	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\Main [OB1]\Network 2\Comment
> Call the Traffic Control Function Block	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\Main [OB1]\Network 3\Comment
> DI0.0 - DI0.7	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 2\Comment
> DI1.0 - DI1.5	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 3\Comment
> DQ0.0 - DQ0.7	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 5\Comment
> DQ1.0 - DQ1.1	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 6\Comment
Α	Alarm class text	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\Acknowledgement\AlarmClassData_IDisplay-Naming_DisplayName
A	Alarm class text	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\Acknowledgement\ShortName
Analog Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\AI0.0\Comment
Analog Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\AI0.1\Comment
Analog Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\AQ0.0\Comment
Analog Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\AQ0.1\Comment
ANALOG_INPUTS	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 8\Title
ANALOG_OUTPUTS	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 9\Title
BANK_0	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 2\Title

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English (United States)	Category	Reference
BANK_0	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 5\Title
BANK_1	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 3\Title
BANK_1	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\FC001-PLC_I/O_Handler [FC1]\Network 6\Title
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI0.0\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI0.1\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI0.2\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI0.3\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI0.4\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI0.5\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI0.6\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI0.7\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI1.0\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI1.1\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI1.2\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI1.3\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI1.4\Comment
Digital Input	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Inputs [16]\DI1.5\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ0.0\Comment

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English (United States)	Category	Reference
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ0.1\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ0.2\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ0.3\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ0.4\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ0.5\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ0.6\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ0.7\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ1.0\Comment
Digital Output	Text category tag comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \PLC tags\PLC_Outputs [12]\DQ1.1\Comment
First PLC scan catch bit	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\xFirstScan
Left Side Amber LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\DB001-PLC_I/O [DB1]\PLC_Outputs.xLeft_AmberLED
Left Side Green LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\DB001-PLC_I/O [DB1]\PLC_Outputs.xLeft_GreenLED
Left Side Green LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\xLeft-Side_Green
Left Side Red LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\DB001-PLC_I/O [DB1]\PLC_Outputs.xLeft_RedLED
Left Side Red LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\xLeft-Side_Red
NA	Alarm class text	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName
NA	Alarm class text	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\No Acknowledgement\ShortName

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English (United States)	Category	Reference	
PLC Inputs Structure	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\DB001-PLC_I/O [DB1]\PLC_Inputs	
PLC Outputs Structure	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\DB001-PLC_I/O [DB1]\PLC_Outputs	
PT time constant	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\3sec	
PT time constant	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\5sec	
PT time constant	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\10sec	
Right Side Amber LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\DB001-PLC_I/O [DB1]\PLC_Outputs.xRight_AmberLED	
Right Side Green LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\DB001-PLC_I/O [DB1]\PLC_Outputs.xRight_GreenLED	
Right Side Green LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\xRight-Side_Green	
Right Side Red LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\00-I/O_Mapping\DB001-PLC_I/O [DB1]\PLC_Outputs.xRight_RedLED	
Right Side Red LED	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\xRight-Side_Red	
State number	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC] \Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\iState	
Timer ON Delay	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\TONs.tLeftGreen_Delay	
Timer ON Delay	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\TONs.tLeftRed_Delay	
Timer ON Delay	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\TONs.tRightGreen_Delay	
Timer ON Delay	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFFIC_LIGHTS_PLC [CPU 1215C DC/DC/DC]\Program blocks\WS01_TVET_Workstation\01-Traffic_Logic\FB001-Traffic_Control [FB1]\TONs.tRightRed_Delay	

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English (United States)	Category	Reference	
Timer ON Delay	Block comment	TRAFFIC_LIGHTS_BRIDGE_CROSSING_SCL_BASIC\TRAFF DC/DC/DC]\Program blocks\WS01_TVET_Workstation\0^{-1} [FB1]\TONs.tlnitial_Delay	IC_LIGHTS_PLC [CPU 1215C -Traffic_Logic\FB001-Traffic_Control