

PLC_1 [CPU 1516-3 PN/DP]

PLC_1

General\Project information

Name	PLC_1	Author	Ilruoha
Comment		Rack	0
Slot	1		

General\Catalog information

Short designation	CPU 1516-3 PN/DP	Description	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit instruction time; 4-stage protection concept, technology functions: motion control, closed-loop control, counting & measuring; tracing; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-device, MRP, MRPD, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, DNS client, OPC UA: server DA, client DA, methods, companion specifications; constant bus cycle time, routing; 2nd interface: PROFINET IO controller, supports RT, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, DNS client, OPC UA: server DA, client DA, methods, companion specifications; routing; 3rd interface: PROFIBUS DP master, S7 communication, constant bus cycle time, routing; Runtime options, firmware V2.6
Article number	6ES7 516-3AN01-0AB0	Firmware version	V2.6

General\Identification & Maintenance

Plant designation		Location identifier	
Installation date	2023-06-19 16:16:51.776	Additional information	

General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	Not available (compile necessary)
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PROFINET interface [X1]\General

Name	PROFINET interface_1	Author	Ilruoha
Comment			

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

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

IP configuration	Set IP address in the project	IP address:	192.168.0.1
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Owner	Projectname TrainingModules2		Date6/21/2023
Operator	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
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Subnet mask:		255.255.255.0	Use router		False
PROFINET interface [X1]\Ethernet addresses\PROFINET					
PROFINET device name is set directly at the device		False	Generate PROFINET device name automatically		True
PROFINET device name:		plc_1.profinet interface_1	Converted name:		plcxb1.profinetxainterfacexb1036c
Device number:		0			
PROFINET interface [X1]\Time 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:		1.000ms			
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		llruoha
Comment					
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:					
Local port:		PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	Medium:		Copper
Cable name:		---			

Owner	Projectname TrainingModules2		Date6/21/2023
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Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
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1		2		3		4	
A							A
							
B	PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:						
		Monitoring of partner port is not possible	Alternative partners	False			
C	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		
	PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Boundaries						
	End of detection of accessible devices	False		End of topology discovery	False		
	PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\General						
	Name	Port_2		Author	Ilruoha		
	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:	---					
							D
E	PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:						
		Monitoring of partner port is not possible	Alternative partners	False			
	PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate						
	Activate this port for use	True					
F	Owner		Projectname TrainingModules2			Date6/21/2023	
	Operator		Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd			Language en-US	
	Approved By		1st View			Version	
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	1	2	3	4																						
A	PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection																									
	Transmission rate / duplex:	Automatic	Monitor	False																						
	Enable autonegotiation	True																								
B	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 using this interface	False																						
	PROFINET interface [X2]\General																									
	Name	PROFINET interface_2	Author	Ilruoha																						
	Comment																									
	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																									
C	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 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																						
D																										
E																										
F	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules2</td> <td>Date6/21/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 1 - 4</td> </tr> </table>				Owner	Projectname TrainingModules2		Date6/21/2023	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 1 - 4
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	1	2	3	4																						
A	Use IEC V2.2 LLDP mode	False	Keep-Alive connection monitoring:	30s																						
	PROFINET interface [X2]\Advanced options\Real time settings\IO communication																									
	Send clock:	1.000ms																								
	PROFINET interface [X2]\Advanced options\Real time settings\Real time options																									
	Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%																						
	PROFINET interface [X2]\Advanced options\Port [X2 P1]\General																									
	Name	Port_1	Author	Ilruoha																						
B	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																						
D	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 using this interface	False																						
	DP interface [X3]\General																									
	Name	DP interface_1	Author	Ilruoha																						
E	Comment																									
	DP interface [X3]\PROFIBUS address\Interface networked with																									
	Subnet:	Not networked																								
	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules2</td> <td>Date6/21/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 1 - 5</td> </tr> </table>				Owner	Projectname TrainingModules2		Date6/21/2023	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 1 - 5
Owner	Projectname TrainingModules2		Date6/21/2023																							
	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2																									
Operator	Location																									
	Description 1st																									
Designed By	Description 2nd		Language en-US																							
Checked By	1st View	Version	Sheet 1 - 5																							
F	Approved By																									

	1	2	3	4
A	DP interface [X3]\PROFIBUS address\Parameters Address: 2 Highest address:			
	Transmission speed:			
B	DP interface [X3]\Operating mode\ Operating mode DP master DP master system: Not created			
	DP interface [X3]\Time synchronization\SIMATIC mode Synchronization type None Time interval None			
B	DP interface [X3]\SYNC/FREEZE\			
	Group	SYNC	FREEZE	Comment
	1	True	True	
	2	True	True	
	3	True	True	
	4	True	True	
	5	True	True	
	6	True	True	
	7	True	True	
	8	True	True	
C	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			
C	Cycle Maximum cycle time 150ms			
	Enable minimum cycle time for cyclic OBs True		Minimum cycle time 1ms	
	Communication load Cycle load due to communication 50%			
D	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	
E	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%			
F	Owner		Projectname TrainingModules2 Date 6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
			Location	
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	1	2	3	4
A	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				
B	Web server\User-defined web pages			
	Application name	HTML source path	Default HTML page	Files with dynamic content
			index.htm	.htm;.html
C	Web server\Overview of interfaces			
	Device	Interface		Enabled web server access
	PLC_1	PROFINET interface_1		False
	PLC_1	PROFINET interface_2		False
	DNS configuration			
	No DNS server address is configured.			
	Display\General\Display standby mode			
	Time to standby mode	30 minutes		
	Display\General\Energy saving mode			
	Time to energy saving mode	15 minutes		
D	Display\General\Display language			
	Default language on display	English		
	Display\Automatic update			
	Time to update	5 seconds		
	Display\Password\Display protection			
	Enable write access	True	Enable display protection	False
	Display\User-defined logo\			
	User logo activated	False	Adapt logo	False
	Resolution	240x260	Company logo	---
E				
F				

Owner	Projectname TrainingModules2		Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
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	1	2	3	4
A				
B	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)	
	C	Time of day\Local time		
Time zone		(UTC) Dublin, Edinburgh, Lisbon, London		
Time of day\Daylight saving time				
Activate daylight saving time		True	Difference between standard and daylight saving time	60mins
Time of day\Daylight saving time\Start of daylight saving time				
Selection of the week of		Last	Selection of the weekday at	Sunday
		March		01:00 a.m.
Time of day\Daylight saving time\Start of standard time				
Selection of the week of		Last	Selection of the weekday at	Sunday
		October		02:00 a.m.
D	Protection			
	Level of protection	Full access (no protection)		
	Protection\Connection mechanisms			
	Permit access with PUT/GET communication from remote partner	True		
	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		
	OPC UA\Accessibility of the client			
E	Activate OPC UA client	False		
	System power supply\General			
	General	Connection to supply voltage L+		
F	Owner		Projectname TrainingModules2	
			Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
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System power supply\Power segment overview

Module	Slot	Supply/consumption
PLC_1	1	12.00W
	Summary	12.00W

Configuration control\Configuration control for central configuration

Allow reconfiguration of device via the user program	False
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Connection resources\

	Station resources - Reserved - Maximum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - PLC_1 [CPU 1516-3 PN/DP] - Configured
Maximum number of resources:		10	118	128
	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	-	-	-
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		10	118	128

Overview of addresses\Overview of addresses\Overview of addresses

Inputs	True	Outputs	True
Address gaps	False	Slot	True

Runtime licenses\OPC UA\Runtime licenses

Type of required license	None	Type of purchased license	No license
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Runtime licenses\ProDiag\Supervisions

Number of used supervisions	0
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Runtime licenses\ProDiag\Runtime licenses

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

Number of configured energy objects	0
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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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Owner	Projectname TrainingModules2	Date6/21/2023
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1

2

3

4

A

A

PLC_1 [CPU 1516-3 PN/DP]

Software units

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules2	Date6/21/2023	
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
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PLC_1 [CPU 1516-3 PN/DP] / 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			

Network 1: Call Line Controller



Owner	Projectname TrainingModules2		Date6/21/2023
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Approved By			

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Controller [FB1]

Controller Properties

General

Name	Controller	Number	1
Type	FB	Language	LAD
Numbering	Automatic		

Information

Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

Name	Input	Data type	
Default value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

Name	Output	Data type	
Default value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

Name	InOut	Data type	
Default value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

Name	Static	Data type	
Default value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

Name	Conveyor Logic_Feeder	Data type	"Conveyor Logic"
Default value		Retain	

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	Location				
Designed By	Description 1st				
Checked By	Description 2nd	Language		en-US	
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	1	2	3	4
A				
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
B	▼ //			
	Name	Input	Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name	Auto Mode Start PB	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
C	Supervision		Comment	
	Name	Auto Mode Stop PB	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	AUTO	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
D	Supervision		Comment	
	Name	Turn Table Homed	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	MANUAL	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
E	Supervision		Comment	
	Name	EStop	Data type	Bool
F	Owner		Projectname TrainingModules2	
			Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
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A					
B	Default value	false	Retain	Non-retain	
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
	Name	Part Present	Data type	Bool	
	Default value	false	Retain	Non-retain	
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
	Name	Reset Part Count	Data type	Bool	
	Default value	false	Retain	Non-retain	
	C	Accessible from HMI/OPC UA	False	Writable from HMI/OPC UA	False
Visible in HMI engineering		False	Setpoint	False	
Supervision			Comment		
Name		Part Loaded	Data type	Bool	
Default value		false	Retain	Non-retain	
Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True	
Visible in HMI engineering		True	Setpoint	False	
Supervision			Comment		
▼ //					
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	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
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Visible in HMI engineering		True	Setpoint	False	
Supervision			Comment		
F		Owner		Projectname TrainingModules2	
			Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
			Location		
	Designed By		Description 1st		
	Checked By		Description 2nd		
Approved By		1st View			
		Language en-US			
		Version			
		Sheet 4 - 3			

1		2		3		4		
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	Visible in HMI engineering		Setpoint					
	Supervision		Comment					
▼ //								
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	Default value		Retain					
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA					
	Visible in HMI engineering		Setpoint					
	Supervision		Comment					
C	Name	Conveyor Started	Data type	Bool				
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	Visible in HMI engineering	True	Setpoint	False				
	Supervision		Comment					
▼ ///								
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	Supervision		Comment					
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	Visible in HMI engineering	True	Setpoint	False				
	Supervision		Comment					
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	Visible in HMI engineering	True	Setpoint	False				
	Supervision		Comment					
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Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 4

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	C	Supervision		Comment			C
Name		QD	Data type	Bool			
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Visible in HMI engineering		True	Setpoint	False			
Supervision			Comment				
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Visible in HMI engineering		True	Setpoint	False			
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	Supervision		Comment				
	▼ /						
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▼ //							
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	Checked By		Description 2nd		Language en-US		
	Approved By		1st View		Version	Sheet 4 - 5	

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B	Default value		Retain		
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	Supervision		Comment		
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	Supervision		Comment		
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Visible in HMI engineering		True	Setpoint	False	
Supervision			Comment		
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Visible in HMI engineering		True	Setpoint	False	
Supervision			Comment		
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	Visible in HMI engineering	True	Setpoint	False	
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		Visible in HMI engineering	True	Setpoint	False
Supervision			Comment		
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F	Owner		Projectname TrainingModules2		
			Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
			Location		
	Designed By		Description 1st		
	Checked By		Description 2nd		
Approved By		1st View			
		Language en-US			
		Version			
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	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
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	Supervision		Comment	
	C	▼ //		
Name		Output	Data type	
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Visible in HMI engineering			Setpoint	
Supervision			Comment	
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Visible in HMI engineering		True	Setpoint	False
Supervision			Comment	
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Visible in HMI engineering		True	Setpoint	False
D	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name		Data type	
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	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
E	Supervision		Comment	
	Name		Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
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			Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
			Language en-US	
	Approved By		1st View	
			Version	
			Sheet 4 - 7	

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B	<div>▼ //</div>				
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	Visible in HMI engineering		Setpoint		
	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
Supervision		Comment			
C	<div>▼ //</div>				
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	Default value		Retain		
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	Visible in HMI engineering		Setpoint		
	Supervision		Comment		
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	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
Supervision		Comment			
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	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
		Location			
	Designed By	Description 1st			
	Checked By	Description 2nd		Language en-US	
	Approved By	1st View		Version	Sheet 4 - 8

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B	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	▼ /			
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	Visible in HMI engineering	True	Setpoint	True
	Supervision		Comment	
	▼ //			
	Name	Input	Data type	
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	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
C	Name	Auto Mode Start PB	Data type	Bool
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	Auto Mode Stop PB	Data type	Bool
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	AUTO	Data type	Bool
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	Visible in HMI engineering	True	Setpoint	False
	D	Supervision		Comment
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Visible in HMI engineering		True	Setpoint	False
Supervision			Comment	
Name			Data type	
Default value			Retain	
Accessible from HMI/OPC UA			Writable from HMI/OPC UA	
Visible in HMI engineering			Setpoint	
Supervision			Comment	
Name			Data type	
Default value			Retain	
Accessible from HMI/OPC UA			Writable from HMI/OPC UA	
Visible in HMI engineering			Setpoint	
E	Supervision		Comment	
	Name		Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
	Default value		Retain	
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	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
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	Visible in HMI engineering		Setpoint	
F	Supervision		Comment	
	Name		Data type	
	Default value		Retain	
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	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
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	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
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	Visible in HMI engineering		Setpoint	
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Operator		Project path		C:\Users\llruoha\Documents\Automation\TrainingModules2
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Designed By		Description 1st		
Checked By		Description 2nd		Language en-US
Approved By		1st View		Version Sheet 4 - 10

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A				
B	Supervision		Comment	
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	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
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Default value	false	Retain	Non-retain	
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	Supervision		Comment	
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	D	Visible in HMI engineering	True	Setpoint
Supervision			Comment	
▼ //				
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Visible in HMI engineering			Setpoint	
Supervision			Comment	
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Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True
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F	Owner		Projectname TrainingModules2	
			Date6/21/2023	
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			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
	Approved By		1st View	
			Language en-US	
		Version		
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B	Visible in HMI engineering	True	Setpoint	False
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	Supervision		Comment	
	Name	InOut	Data type	
	Default value		Retain	
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C	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	▼ //			
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	Supervision		Comment	
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D	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	▼ ///			
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	Visible in HMI engineering	True	Setpoint	True
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	Name	CU	Data type	Bool
E	Default value	false	Retain	Retain
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	Checked By		Description 2nd	
Approved By		1st View		
		Language en-US		
		Version		
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	Visible in HMI engineering	True	Setpoint	False			
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	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
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	Default value	false	Retain	Retain			
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Visible in HMI engineering		True	Setpoint	False			
Supervision			Comment				
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Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True			
Visible in HMI engineering		True	Setpoint	False			
Supervision			Comment				
Name		QD	Data type	Bool			
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Supervision			Comment				
▼ /							
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	Designed By	Description 1st					
	Checked By	Description 2nd	Language en-US				
	Approved By	1st View	Version	Sheet 4 - 13			

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	Supervision		Comment				
▼ //							
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	Visible in HMI engineering		Setpoint				
	Supervision		Comment				
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	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
D	Name	Auto Mode Stop PB	Data type	Bool			
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	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
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	Visible in HMI engineering	True	Setpoint	False			
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F	Name	Turn Table Homed	Data type	Bool			
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Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 14

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	Default value	false	Retain	Non-retain
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	Supervision		Comment	
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Visible in HMI engineering	False	Setpoint	False	
C	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
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Default value	false	Retain	Non-retain	
Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
D	Supervision		Comment	
	▼ //			
	Name	Output	Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name	Counter Entry Output	Data type	Int
	Default value	0	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	E	Supervision		Comment
Name		Conveyor FWD	Data type	Bool
Default value		false	Retain	Non-retain
Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True
Supervision			Comment	
Name		Conveyor FWD	Data type	Bool
Default value		false	Retain	Non-retain
Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True
Supervision			Comment	
Name		Conveyor FWD	Data type	Bool
Default value		false	Retain	Non-retain
Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True
F	Owner		Projectname TrainingModules2	
			Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
			Language en-US	
	Approved By		1st View	
			Version	
			Sheet 4 - 15	

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	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
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	C	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
Visible in HMI engineering		True	Setpoint	False	
Supervision			Comment		
Name		QD	Data type	Bool	
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Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True	
Visible in HMI engineering		True	Setpoint	False	
Supervision			Comment		
Name		PV	Data type	Int	
Default value		0	Retain	Retain	
D		Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
		Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment		
	Name	CV	Data type	Int	
	Default value	0	Retain	Retain	
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
	▼ /				
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Visible in HMI engineering		True	Setpoint	True	
Supervision			Comment		
F	Owner		Projectname TrainingModules2		
			Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
			Location		
	Designed By		Description 1st		
	Checked By		Description 2nd		
			Language en-US		
	Approved By		1st View		
		Version			
		Sheet 4 - 17			

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	Visible in HMI engineering		Setpoint		
	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
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	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
E					E
	Owner	Projectname TrainingModules2		Date6/21/2023	
	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
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	Designed By	Description 1st			
	Checked By	Description 2nd	Language en-US		
F	Approved By	1st View	Version	Sheet 4 - 18	F

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	Visible in HMI engineering	False	Setpoint	False
	Supervision		Comment	
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Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
Visible in HMI engineering	True	Setpoint	False	
C	Supervision		Comment	
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	Supervision		Comment	
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	Supervision		Comment	
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Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
Visible in HMI engineering	True	Setpoint	False	
E	Supervision		Comment	
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	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
F				

Owner	Projectname TrainingModules2		Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 19

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			Comment	
	▼ //			
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	Visible in HMI engineering Supervision		Setpoint	
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			Comment	
	▼ ///			
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			Comment	
	Name	CU	Data type	Bool
	Default value	false	Retain	Retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering Supervision	True	Setpoint	False
			Comment	
D	Name	CD	Data type	Bool
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	Visible in HMI engineering Supervision	True	Setpoint	False
			Comment	
	Name	R	Data type	Bool
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	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
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			Comment	
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			Comment	
F	Owner		Projectname TrainingModules2	
	Operator		Date6/21/2023	
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
	Location			
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	Checked By		Description 2nd	
	Approved By		Language en-US	
			Version	
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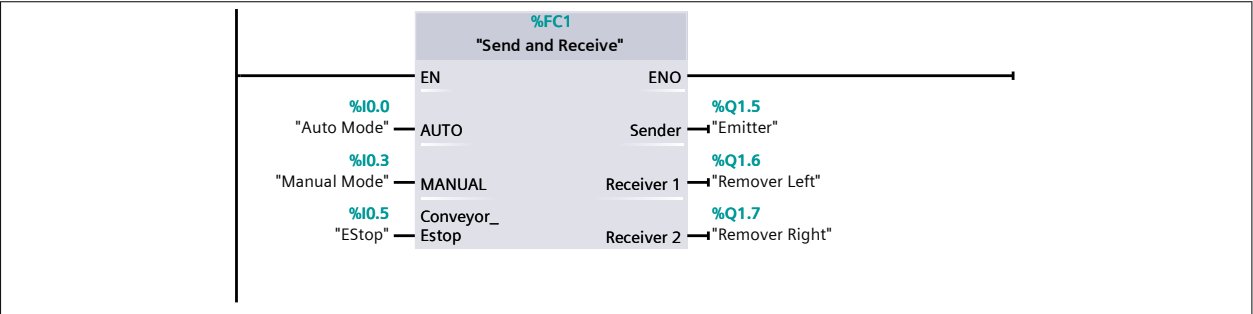
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	Supervision		Comment		
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	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
	Name	QD	Data type	Bool	
	Default value	false	Retain	Retain	
	C	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
Visible in HMI engineering		True	Setpoint	False	
Supervision			Comment		
Name		PV	Data type	Int	
Default value		0	Retain	Retain	
Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True	
Visible in HMI engineering		True	Setpoint	False	
Supervision			Comment		
Name		CV	Data type	Int	
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		Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment		
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	Visible in HMI engineering		Setpoint		
	Supervision		Comment		
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		Visible in HMI engineering		Setpoint	
Supervision			Comment		
F					

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 21
Approved By			

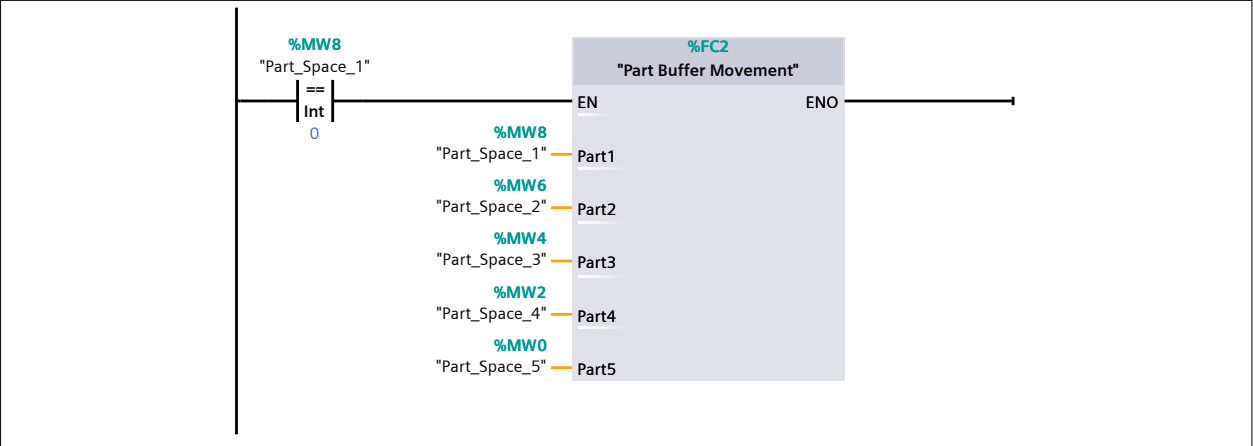
1234

A

Network 1: Call the Send and Receive function



Network 2: Ensure that Part 1 Buffer has a Value



D

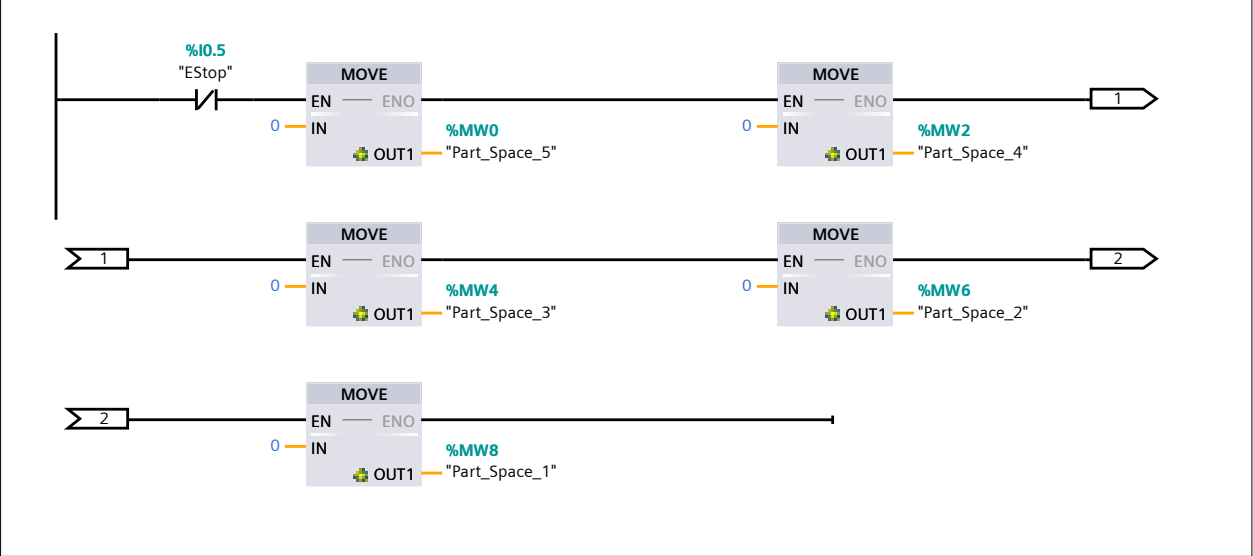
Network 3: Reset Buffer if E-Stop Button Pressed (Must re-run parts)

E

Owner	Projectname	TrainingModules2		Date	6/21/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules2			
	Location				
Designed By	Description 1st				
Checked By	Description 2nd	Language	en-US		
Approved By	1st View	Version	Sheet 4 - 22		

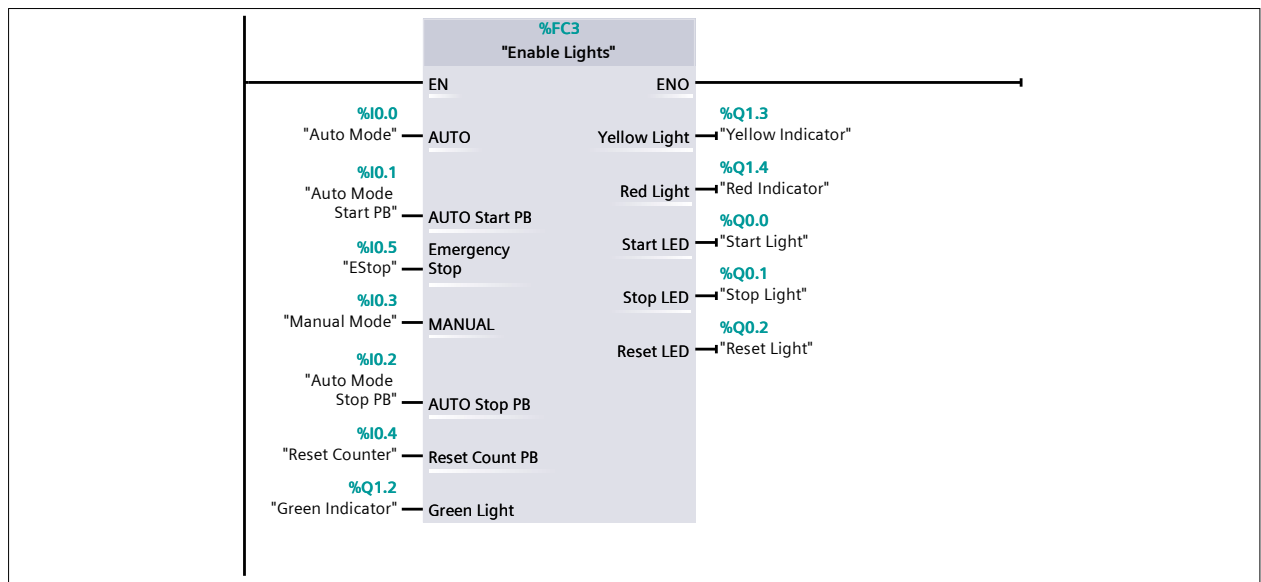
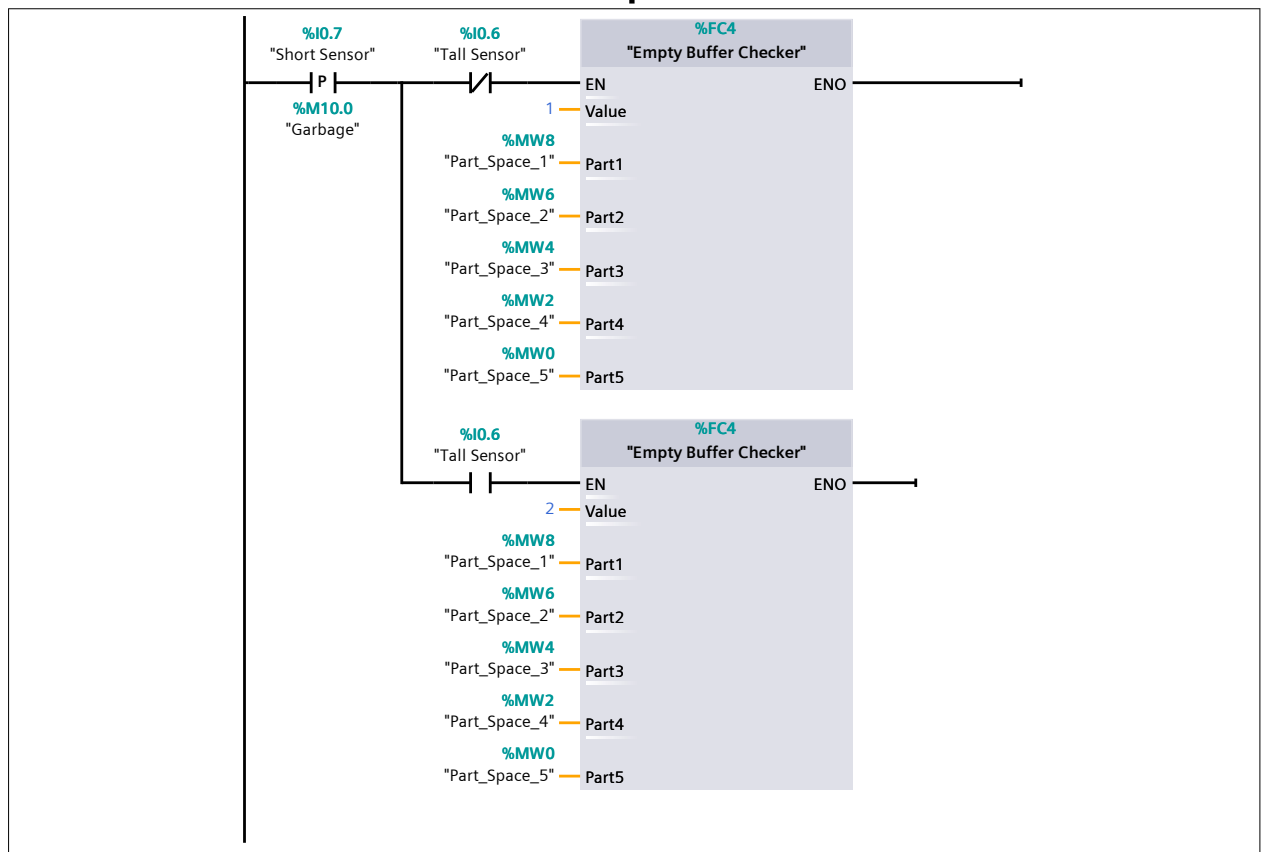
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Network 3: Reset Buffer if E-Stop Button Pressed (Must re-run parts)



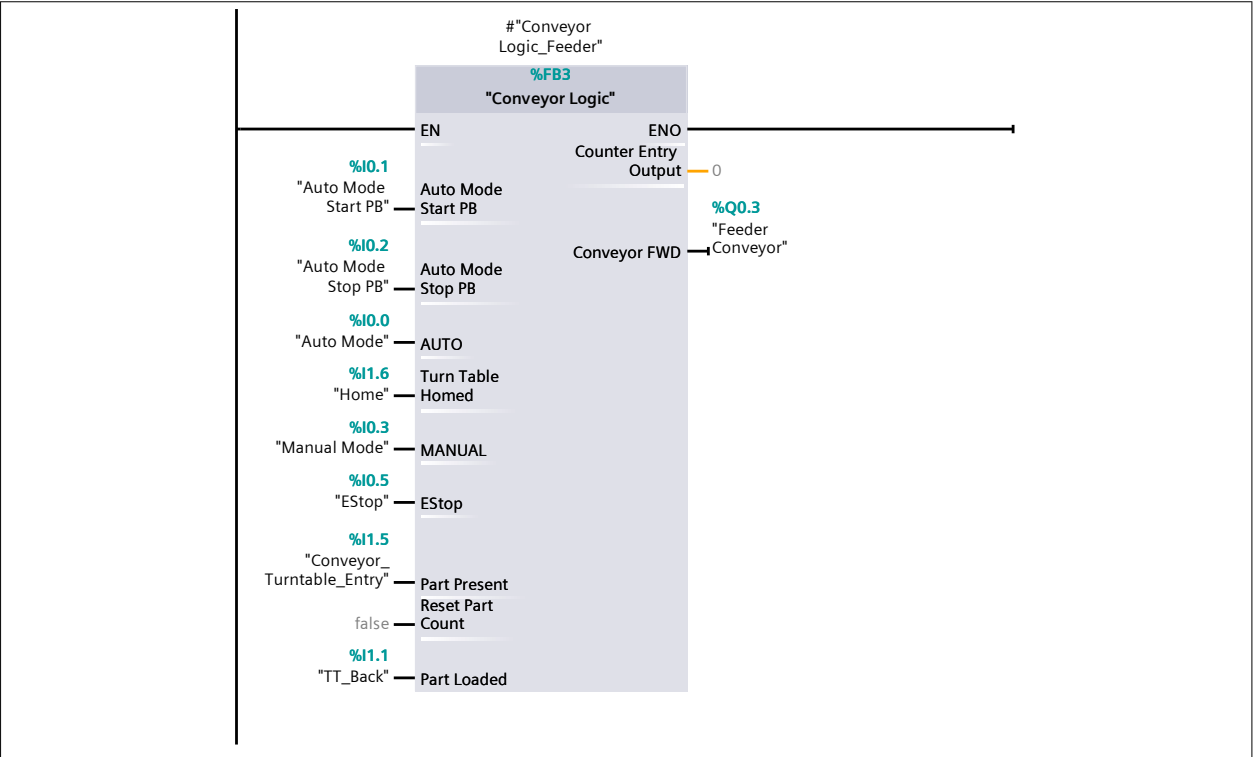
Network 4: Height Sensors

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 23
Approved By			



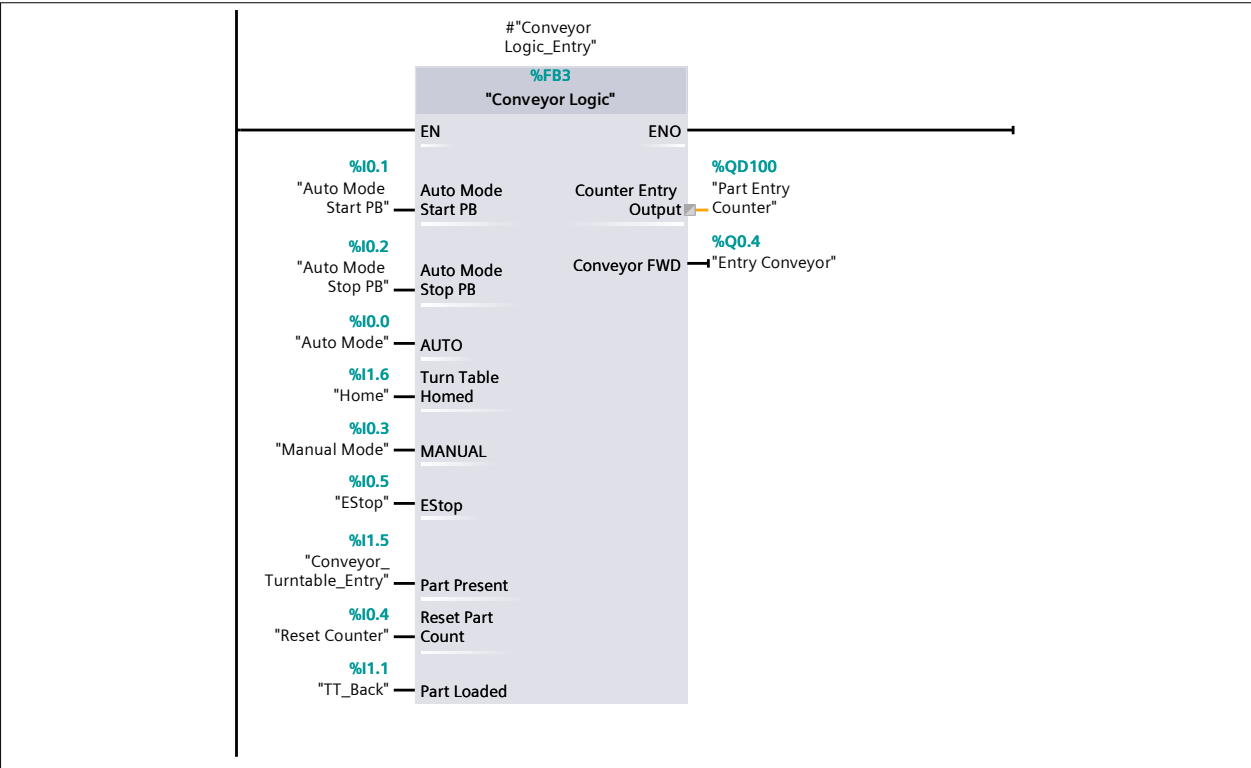
Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 24

Network 6: Call Feeder Conveyor Logic



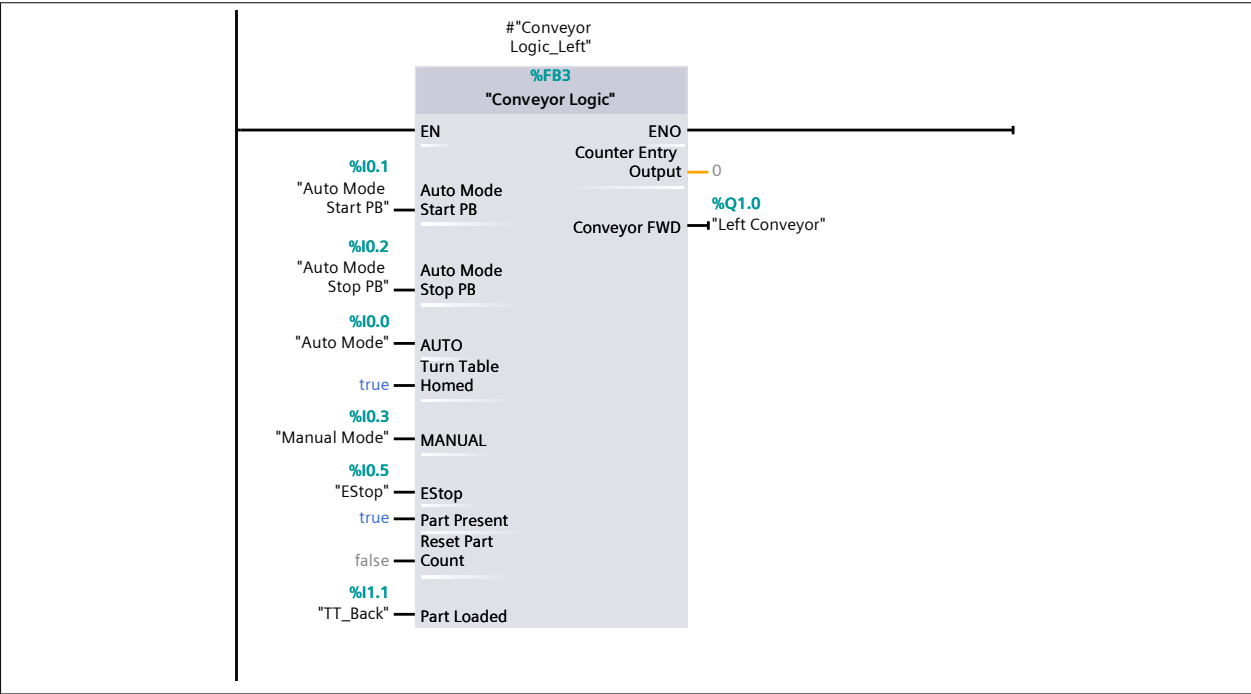
Network 7: Call Entry Conveyor Logic

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 25
Approved By			

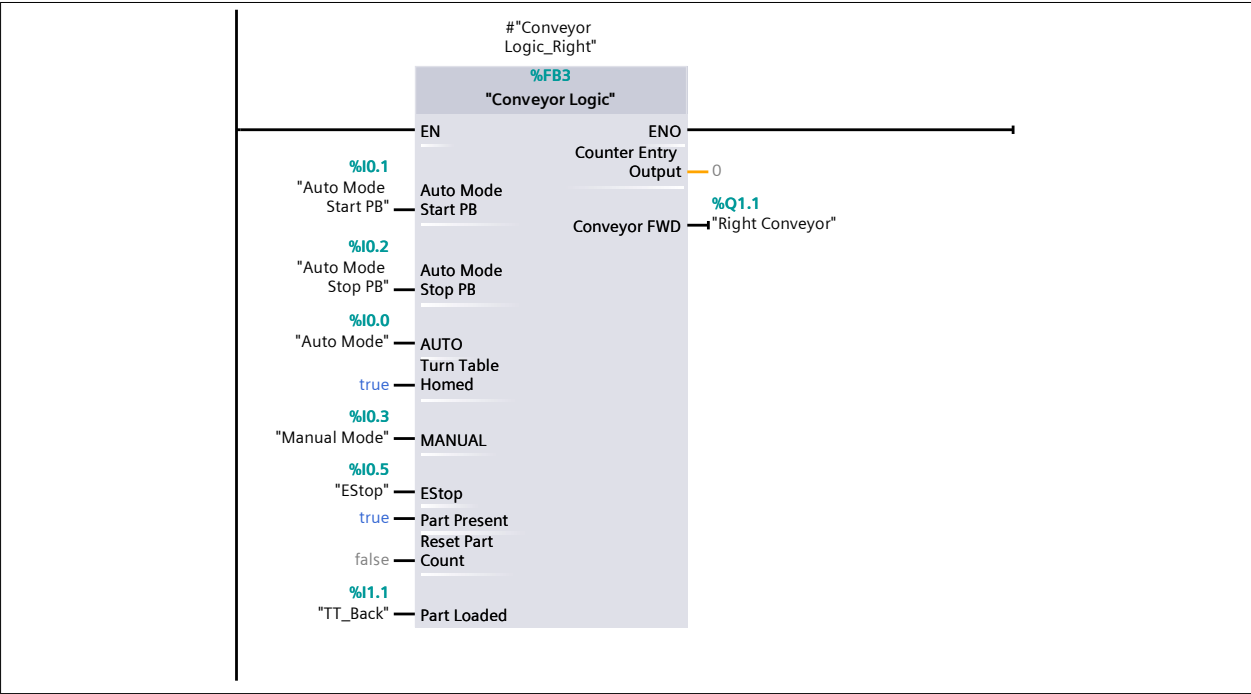


Network 8: Call Conveyor Left Logic

Owner	Projectname TrainingModules2		Date6/21/2023
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Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 26
Approved By			

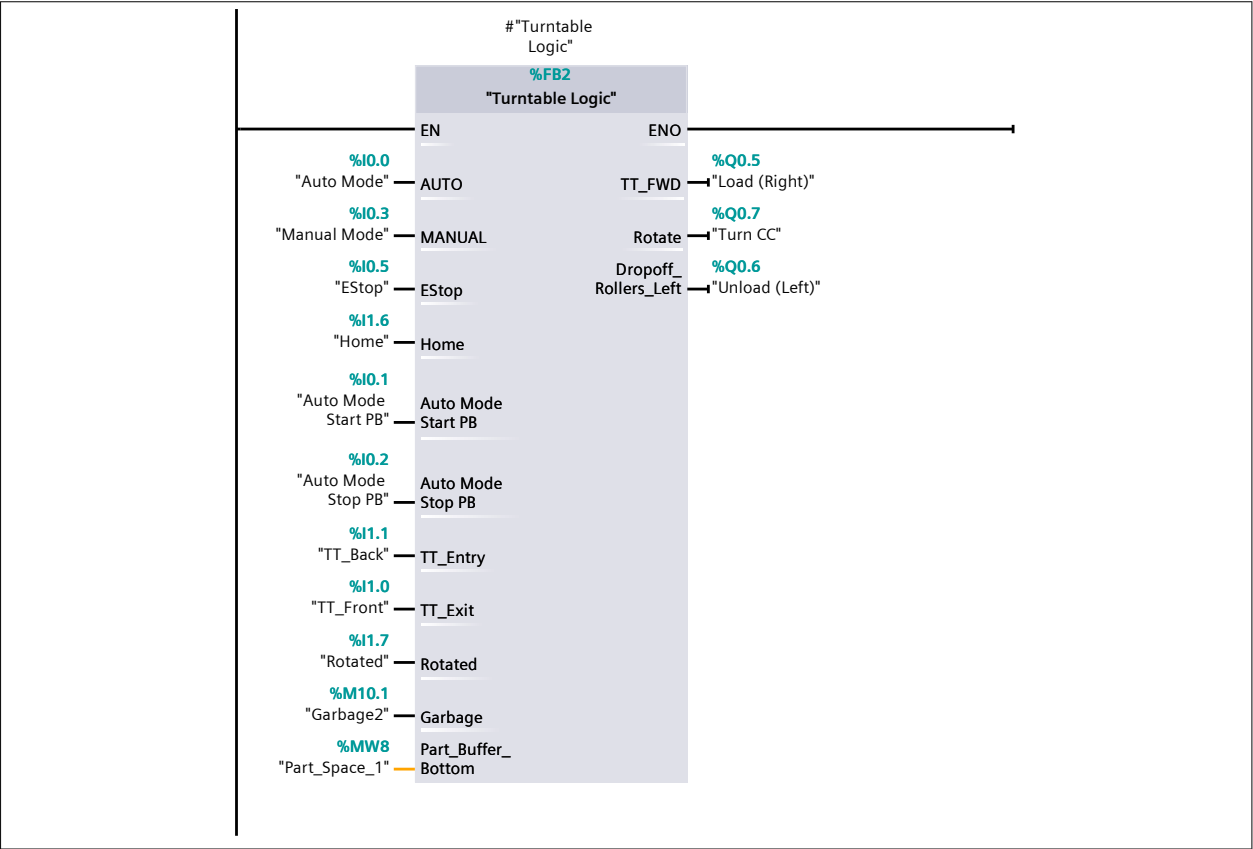


Network 9: Call Conveyor Right Logic



Owner	Projectname TrainingModules2		Date6/21/2023
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Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 27
Approved By			

Network 10: Call Turntable Logic



Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 28
Approved By			

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Data_Organization [DB1]

Data_Organization Properties

General

Name	Data_Organization	Number	1
Type	DB	Language	DB
Numbering	Automatic		

Information

Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

Name	Input	Data type	
Start value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

Name	Output	Data type	
Start value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

Name	InOut	Data type	
Start value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

▼			
Name	Static	Data type	
Start value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

▼ /			
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Start value		Retain	False

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Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
	Location			
Designed By	Description 1st			
Checked By	Description 2nd		Language en-US	
Approved By	1st View		Version	Sheet 5 - 1

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	Supervision		Comment	
B	▼ //			
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	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
C	Supervision		Comment	
	Name	Auto Mode Stop PB	Data type	Bool
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
D	Supervision		Comment	
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	Supervision		Comment	
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			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
Approved By		1st View		
		Language en-US		
		Version		
		Sheet 5 - 2		

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	Supervision		Comment	
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	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	▼ //			
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	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
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	Supervision		Comment	
D	Name	Conveyor FWD	Data type	Bool
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	E			
F		Owner		Projectname TrainingModules2
			Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
			Language en-US	
	Approved By		1st View	
			Version	
			Sheet 5 - 3	

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	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	▼ //			
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	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
C	Supervision		Comment	
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	Supervision		Comment	
	▼ ///			
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E	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
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F	Owner		Projectname TrainingModules2	
	Operator		Date6/21/2023	
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			Location	
Designed By		Description 1st		
Checked By		Description 2nd		
Approved By		1st View		
		Language en-US		
		Version		
		Sheet 5 - 4		

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A					
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	Checked By		Description 2nd		
Approved By		1st View			
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	Supervision		Comment				
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Name	Turn Table Timers	Data type	TP_TIME																																									
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	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
C	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
D	Supervision		Comment	
	Name	AUTO	Data type	Bool
	Start value	false	Retain	False
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
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Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Designed By		Location		
Checked By		Description 1st		
Approved By		Description 2nd		Language en-US
		1st View		Version
				Sheet 5 - 14

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	Visible in HMI engineering	True	Setpoint	False
	D	Supervision		Comment
Name		CV	Data type	Int
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Visible in HMI engineering		True	Setpoint	False
Supervision			Comment	
▼ /				
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Start value			Retain	False
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Visible in HMI engineering		True	Setpoint	True
Supervision			Comment	
E				
F	Owner		Projectname TrainingModules2 Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd Language en-US	
	Approved By		1st View Version Sheet 5 - 17	

	1	2	3	4	
A					A
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	Visible in HMI engineering		Setpoint		
	Supervision		Comment		
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
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	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
C	Name	AUTO	Data type	Bool	
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	Visible in HMI engineering	True	Setpoint	False	
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	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
D	Name	MANUAL	Data type	Bool	
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	Supervision		Comment		
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E					E
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	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
		Location			
	Designed By	Description 1st			
	Checked By	Description 2nd	Language en-US		
F	Approved By	1st View	Version	Sheet 5 - 18	F

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B	Supervision		Comment			
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	Supervision		Comment			
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Visible in HMI engineering		True	Setpoint	False		
Supervision		Comment				
▼ //						
Name		Output	Data type			
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Visible in HMI engineering			Setpoint			
Supervision		Comment				
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	Supervision		Comment			
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Accessible from HMI/OPC UA			Writable from HMI/OPC UA			
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Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
	Location			
Designed By	Description 1st			
Checked By	Description 2nd		Language en-US	
Approved By	1st View		Version	Sheet 5 - 19

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B	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	▼ //			
	Name	Static	Data type	
	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	True
	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
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	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	R	Data type	Bool
	Start value	false	Retain	True
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	LD	Data type	Bool
	Start value		Retain	
E	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
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	Supervision		Comment	
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	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
	Start value		Retain	
F	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name		Data type	
	Start value		Retain	

Owner	Projectname TrainingModules2		Date6/21/2023
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Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 5 - 20
Approved By			

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A																							
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	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True																			
	Visible in HMI engineering	True	Setpoint	False																			
	Supervision		Comment																				
	Name	QU	Data type	Bool																			
	Start value	false	Retain	True																			
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True																			
	Visible in HMI engineering	True	Setpoint	False																			
	Supervision		Comment																				
	Name	QD	Data type	Bool																			
	Start value	false	Retain	True																			
	C	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True																		
Visible in HMI engineering		True	Setpoint	False																			
Supervision			Comment																				
Name		PV	Data type	Int																			
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Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True																			
Visible in HMI engineering		True	Setpoint	False																			
Supervision			Comment																				
Name		CV	Data type	Int																			
Start value		0	Retain	True																			
D		Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True																		
		Visible in HMI engineering	True	Setpoint	False																		
	Supervision		Comment																				
E																							
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Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2																						
	Location																						
Designed By	Description 1st																						
Checked By	Description 2nd	Language en-US																					
Approved By	1st View	Version																					
		Sheet 5 - 21																					

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Turntable Logic [FB2]

Turntable Logic Properties

General

Name	Turntable Logic	Number	2
Type	FB	Language	LAD
Numbering	Automatic		

Information

Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

▼			
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Visible in HMI engineering		Setpoint	
Supervision		Comment	
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Visible in HMI engineering	True	Setpoint	False
Supervision		Comment	
Name	MANUAL	Data type	Bool
Default value	false	Retain	Non-retain
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Visible in HMI engineering	True	Setpoint	False
Supervision		Comment	
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Visible in HMI engineering	True	Setpoint	False
Supervision		Comment	
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Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True

Owner	Projectname TrainingModules2		Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 6 - 1

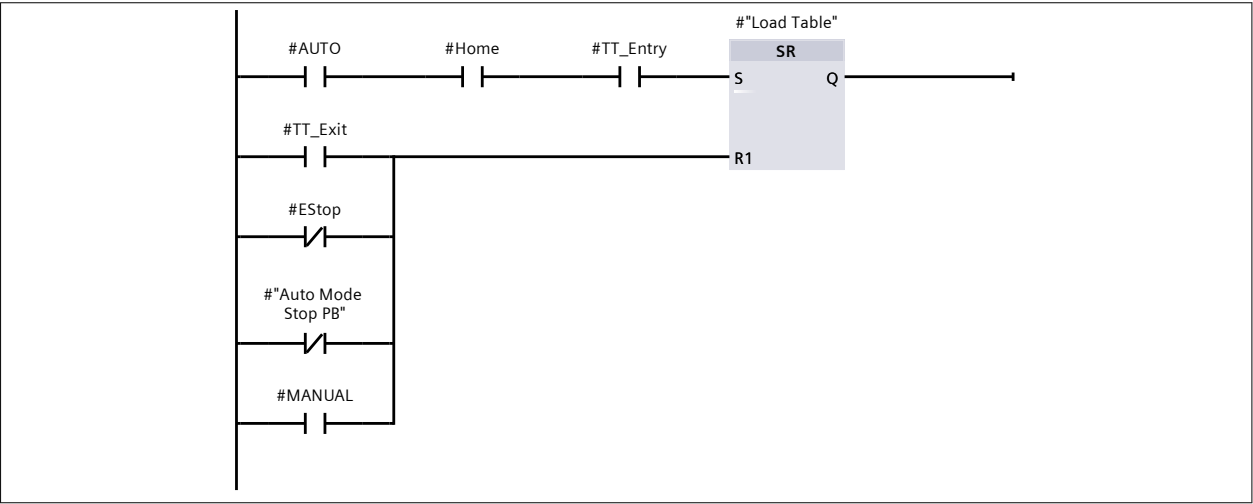
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	Supervision		Comment				
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	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	Auto Mode Stop PB	Data type	Bool			
	Default value	false	Retain	Non-retain			
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	Supervision		Comment				
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		Default value	false	Retain		Non-retain	
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Visible in HMI engineering		True	Setpoint	False			
Supervision			Comment				
▼							
Name		Output	Data type				
Default value			Retain				
Accessible from HMI/OPC UA			Writable from HMI/OPC UA				
Visible in HMI engineering			Setpoint				
Supervision			Comment				
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	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
		Location					
	Designed By	Description 1st					
	Checked By	Description 2nd	Language en-US				
	Approved By	1st View	Version	Sheet 6 - 2			

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	Supervision		Comment				
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B	Supervision		Comment				
	▼						
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	Supervision		Comment				
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Visible in HMI engineering		True	Setpoint	False			
Supervision			Comment				
Name		Static	Data type				
Default value			Retain				
Accessible from HMI/OPC UA			Writable from HMI/OPC UA				
Visible in HMI engineering			Setpoint				
▼							
D							
	E						
F							

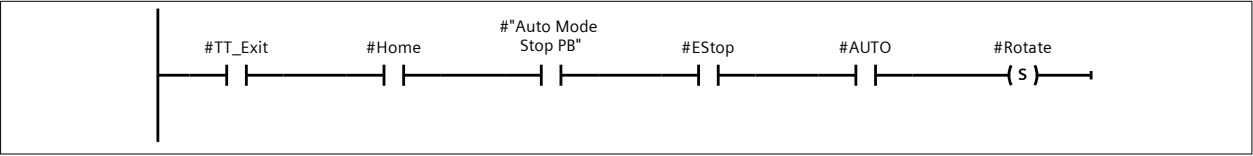
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Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 6 - 3

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	Supervision		Comment				
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	Visible in HMI engineering		Setpoint		False		
	Supervision		Comment				
	▼ /						
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E	Supervision		Comment				
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F	Visible in HMI engineering		True		Setpoint	False	
	Supervision		Comment				
	Name	ET	Data type	Time			
	Default value	T#0ms	Retain	Non-retain			
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	Visible in HMI engineering		True		Setpoint	False	
	Supervision		Comment				
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	Visible in HMI engineering		True		Setpoint	False	
	Supervision		Comment				
	Name		Q		Data type	Bool	
	Default value		false		Retain	Non-retain	
	Accessible from HMI/OPC UA		True		Writable from HMI/OPC UA	False	
	Supervision		Comment				
Owner		Projectname TrainingModules2				Date6/21/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
Designed By		Location					
Checked By		Description 1st				Language en-US	
Approved By		Description 2nd				Version	
		1st View				Sheet 6 - 4	

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A	Visible in HMI engineering		True	Setpoint	False																																																	
	Supervision			Comment																																																		
	Name		Load Table	Data type	Bool																																																	
	Default value		false	Retain	Non-retain																																																	
B	Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True																																																	
	Visible in HMI engineering		True	Setpoint	False																																																	
	Supervision			Comment																																																		
	Name		Dropoff_Rollers_Right	Data type	Bool																																																	
C	Default value		false	Retain	Non-retain																																																	
	Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True																																																	
	Visible in HMI engineering		True	Setpoint	False																																																	
	Supervision			Comment																																																		
D	Name		Rotation Ready	Data type	Bool																																																	
	Default value		false	Retain	Non-retain																																																	
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	Visible in HMI engineering		True	Setpoint	False																																																	
E	Supervision			Comment																																																		
	Name		Temp	Data type																																																		
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	Accessible from HMI/OPC UA			Writable from HMI/OPC UA																																																		
F	Visible in HMI engineering			Setpoint																																																		
	Supervision			Comment																																																		
<p>Network 1: Enable FWD Loading Rollers on Turn Tables</p>																																																						
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	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2																																																					
Operator	Location																																																					
	Description 1st																																																					
Designed By	Description 2nd			Language en-US																																																		
Checked By	1st View			Version		Sheet 6 - 5																																																
Approved By																																																						



Network 2: Rotate Turn Table When Part Hits Exit Sensor



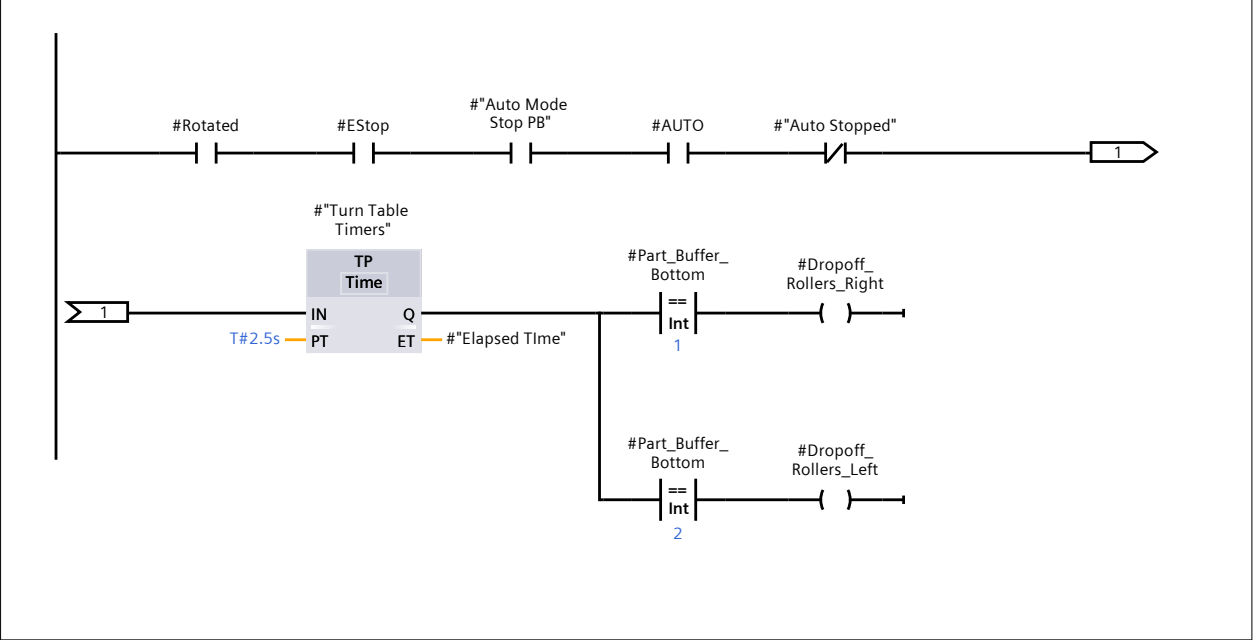
Network 3: Remove Part From Turn Table

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Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 6 - 6
Approved By			

1234

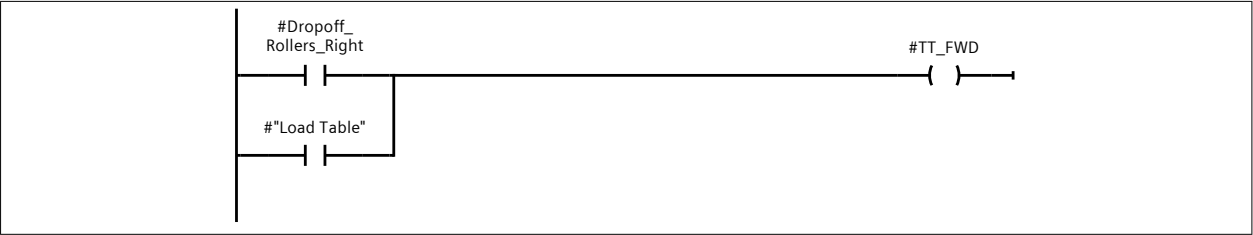
A

Network 3: Remove Part From Turn Table



C

Network 4: Assign Forward Table Movement

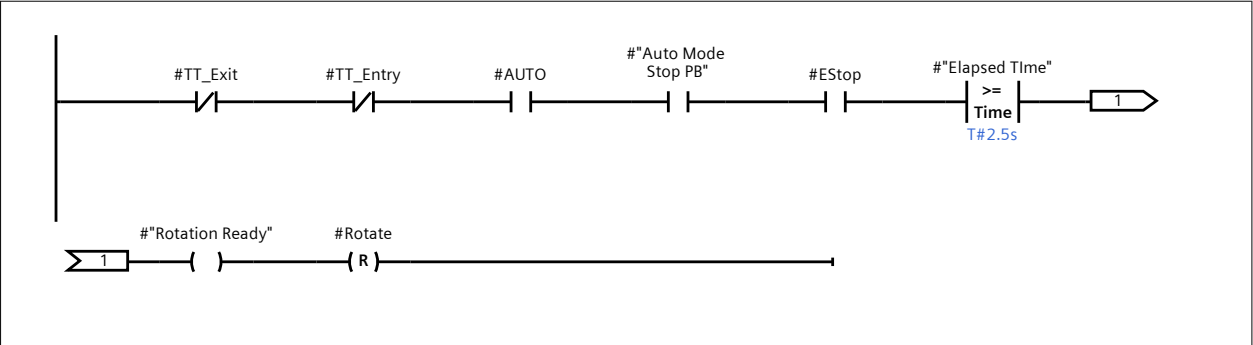


D

Network 5: Allow Rotation after Removed Part

E

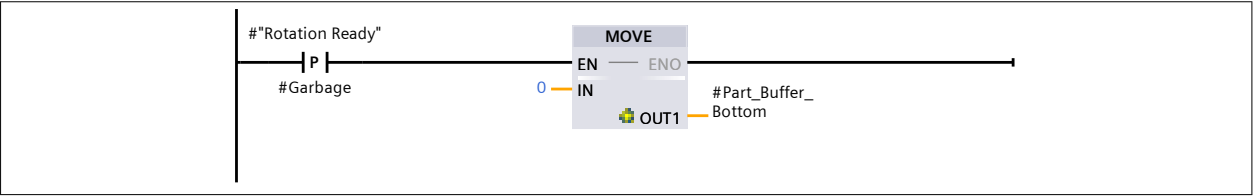
Network 5: Allow Rotation after Removed Part



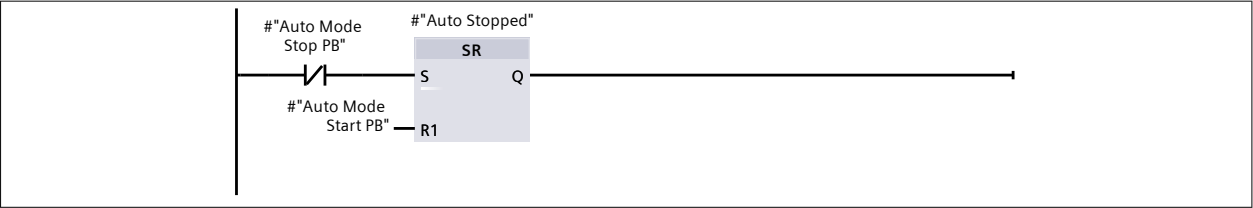
Owner	Projectname TrainingModules2	Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
Designed By	Location	
Checked By	Description 1st	
Approved By	Description 2nd	Language en-US
	1st View	Version
		Sheet 6 - 7

F

Network 6: Empty Used Buffer Slot



Network 7: Auto Stop Push Button Stopping Functionality



Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 6 - 8
Approved By			

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Conveyor Logic [FB3]

Conveyor Logic Properties

General

Name	Conveyor Logic	Number	3
Type	FB	Language	LAD
Numbering	Automatic		

Information

Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

▼			
Name	Input	Data type	
Default value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	
Name	Auto Mode Start PB	Data type	Bool
Default value	false	Retain	Non-retain
Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
Visible in HMI engineering	True	Setpoint	False
Supervision		Comment	
Name	Auto Mode Stop PB	Data type	Bool
Default value	false	Retain	Non-retain
Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
Visible in HMI engineering	True	Setpoint	False
Supervision		Comment	
Name	AUTO	Data type	Bool
Default value	false	Retain	Non-retain
Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
Visible in HMI engineering	True	Setpoint	False
Supervision		Comment	
Name	Turn Table Homed	Data type	Bool
Default value	false	Retain	Non-retain
Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True

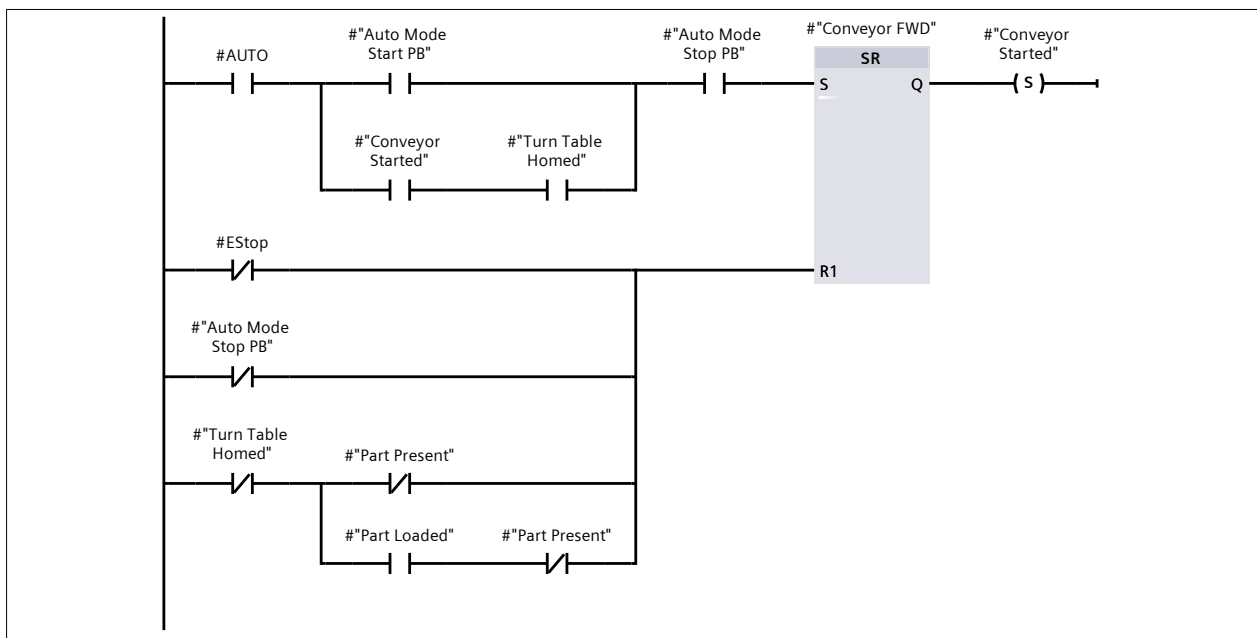
Owner	Projectname TrainingModules2		Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 7 - 1

1		2		3		4	
A	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	MANUAL	Data type	Bool			
	Default value	false	Retain	Non-retain			
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	EStop	Data type	Bool			
	Default value	false	Retain	Non-retain			
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
B	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	Part Present	Data type	Bool			
	Default value	false	Retain	Non-retain			
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	Reset Part Count	Data type	Bool			
	Default value	false	Retain	Non-retain			
	Accessible from HMI/OPC UA	False	Writable from HMI/OPC UA	False			
C	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	Reset Part Count	Data type	Bool			
	Default value	false	Retain	Non-retain			
	Accessible from HMI/OPC UA	False	Writable from HMI/OPC UA	False			
	Visible in HMI engineering	False	Setpoint	False			
	Supervision		Comment				
	Name	Part Loaded	Data type	Bool			
	Default value	false	Retain	Non-retain			
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
D	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	▼						
	Name	Output	Data type				
	Default value		Retain				
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA				
	Visible in HMI engineering		Setpoint				
	Supervision		Comment				
	Name	Counter Entry Output	Data type	Int			
	Default value	0	Retain	Non-retain			
E							
F	Owner		Projectname TrainingModules2			Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd			Language en-US	
	Approved By		1st View			Version	
						Sheet 7 - 2	

	1	2	3	4
A				
B	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	Conveyor FWD	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	InOut	Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
C	Supervision		Comment	
	▼			
	Name	Static	Data type	
	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name	Conveyor Started	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	D	Supervision		Comment
▼ /				
Name		Part Entry Counter	Data type	CTU_INT
Default value			Retain	Retain
Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True
Visible in HMI engineering		True	Setpoint	True
Supervision			Comment	
Name		CU	Data type	Bool
Default value		false	Retain	Retain
Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True
Visible in HMI engineering		True	Setpoint	False
E				
F	Owner		Projectname TrainingModules2	
	Operator		Date6/21/2023	
			Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
	Location			
	Designed By		Description 1st	
	Checked By		Description 2nd	
Approved By		1st View		
		Language en-US		
		Version		
		Sheet 7 - 3		

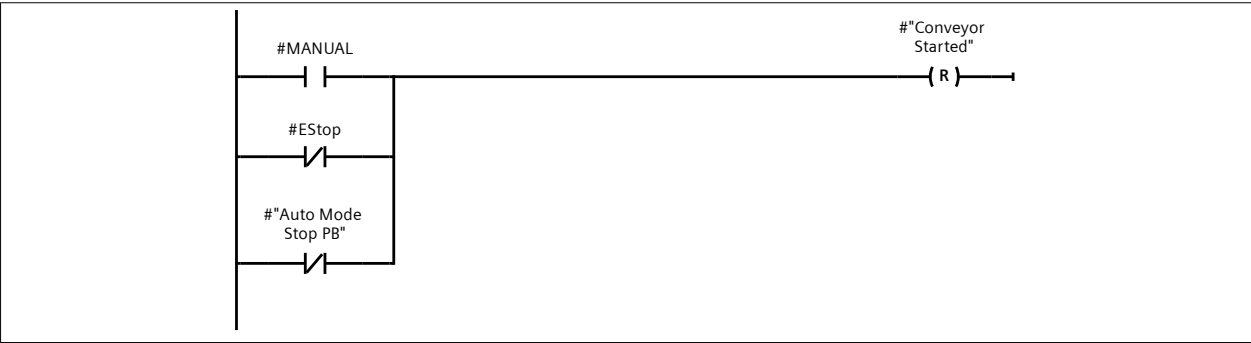
Supervision		Comment	
Name	Temp	Data type	
Default value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	
Name	Constant	Data type	
Default value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	

Network 1: Conveyor Auto Mode



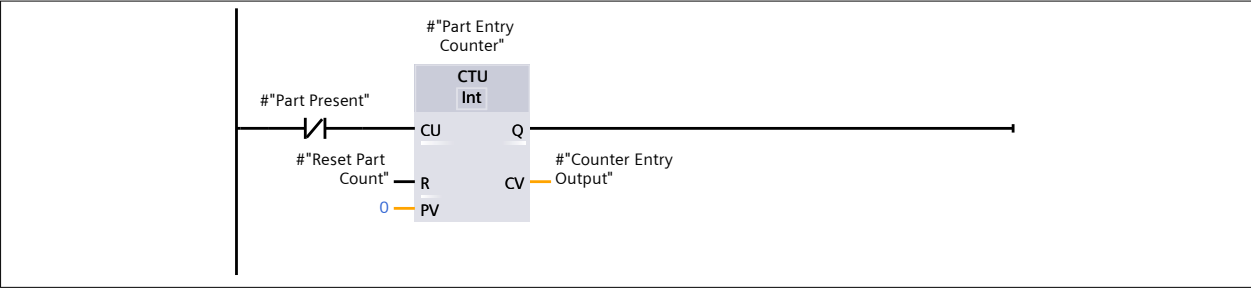
Network 2: Reset the Conveyor Started Condition

Owner	Projectname	TrainingModules2	Date	6/21/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules2		
Designed By	Location			
Checked By	Description 1st			
Approved By	Description 2nd	Language	en-US	
	1st View	Version		Sheet 7 - 5



B

Network 3: Part Entry Counter with Reset



Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 7 - 6
Approved By			

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Send and Receive [FC1]

Send and Receive Properties

General

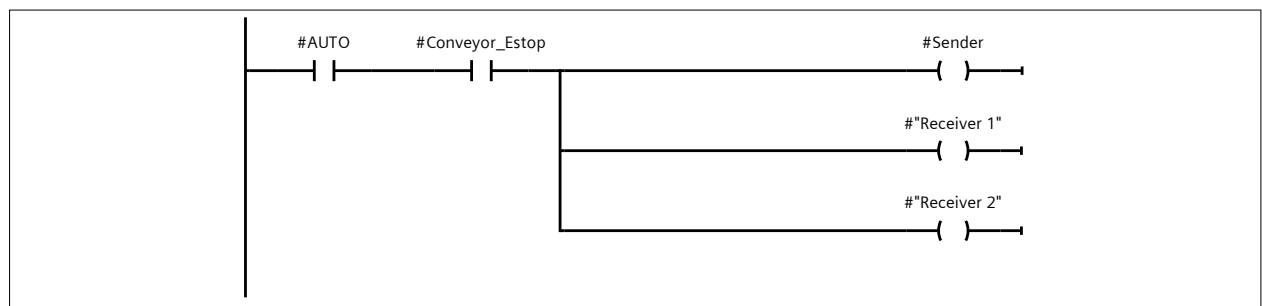
Name	Send and Receive	Number	1
Type	FC	Language	LAD
Numbering	Automatic		

Information

Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

Name	Data type	Default value	Comment
▼ Input			
AUTO	Bool		
MANUAL	Bool		
Conveyor_Estop	Bool		
▼ Output			
Sender	Bool		
Receiver 1	Bool		
Receiver 2	Bool		
InOut			
Temp			
Constant			
▼ Return			
Send and Receive	Void		

Network 1: Send and Receive Parts in Auto Mode



Owner	Projectname	TrainingModules2	Date	6/21/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules2		
Designed By	Location			
Checked By	Description 1st			
Approved By	Description 2nd	Language	en-US	
	1st View	Version		Sheet 8 - 1

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Part Buffer Movement [FC2]

Part Buffer Movement Properties

General

Name	Part Buffer Movement	Number	2
Type	FC	Language	LAD
Numbering	Automatic		

Information

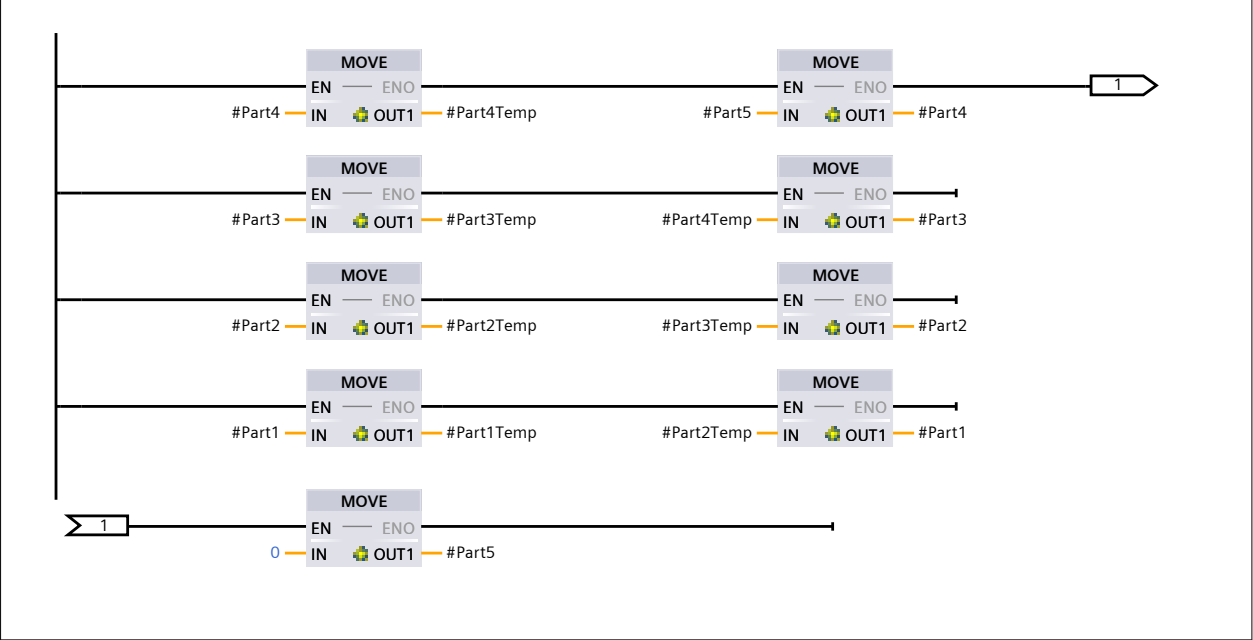
Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

Name	Data type	Default value	Comment
Input			
Output			
▼ InOut			
Part1	Int		
Part2	Int		
Part3	Int		
Part4	Int		
Part5	Int		
▼ Temp			
Part4Temp	Int		
Part3Temp	Int		
Part2Temp	Int		
Part1Temp	Int		
Constant			
▼ Return			
Part Buffer Movement	Void		

Network 1: Shift Part Buffer

Owner	Projectname	TrainingModules2	Date	6/21/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules2		
Designed By	Location			
Checked By	Description 1st			
Approved By	Description 2nd	Language	en-US	
	1st View	Version		Sheet 9 - 1

Network 1: Shift Part Buffer



Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 9 - 2
Approved By			

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Enable Lights [FC3]

Enable Lights Properties

General

Name	Enable Lights	Number	3
Type	FC	Language	LAD
Numbering	Automatic		

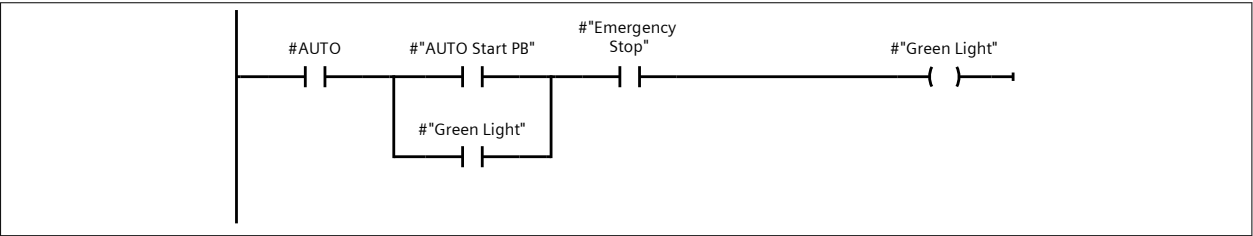
Information

Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

Name	Data type	Default value	Comment
▼ Input			
AUTO	Bool		
AUTO Start PB	Bool		
Emergency Stop	Bool		
MANUAL	Bool		
AUTO Stop PB	Bool		
Reset Count PB	Bool		
▼ Output			
Yellow Light	Bool		
Red Light	Bool		
Start LED	Bool		
Stop LED	Bool		
Reset LED	Bool		
▼ InOut			
Green Light	Bool		
Temp			
Constant			
▼ Return			
Enable Lights	Void		

Network 1: Enable Green Light (Auto)

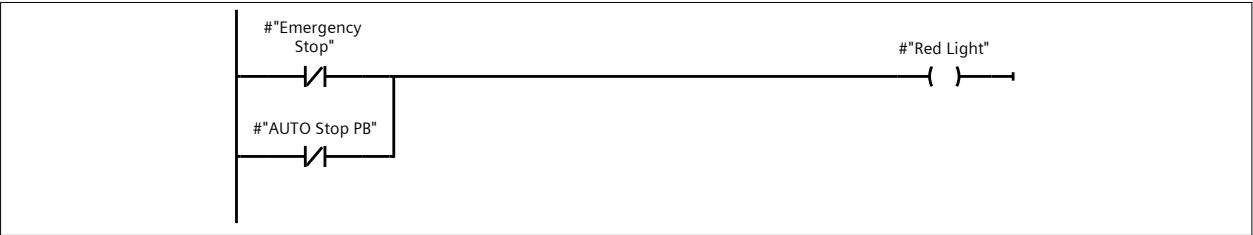
Owner	Projectname	TrainingModules2	Date	6/21/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules2		
Designed By	Location			
Checked By	Description 1st			
Approved By	Description 2nd	Language	en-US	
	1st View	Version		Sheet 10 - 1



Network 2: Enable Yellow Light (Manual)



Network 3: Enable Red Light (Stopped)



Network 4: Control Panel Start Light



Network 5: Stop Push Button Light



Network 6: Reset Push Button Light

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 10 - 2

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Empty Buffer Checker [FC4]

Empty Buffer Checker Properties

General

Name	Empty Buffer Checker	Number	4
Type	FC	Language	LAD
Numbering	Automatic		

Information

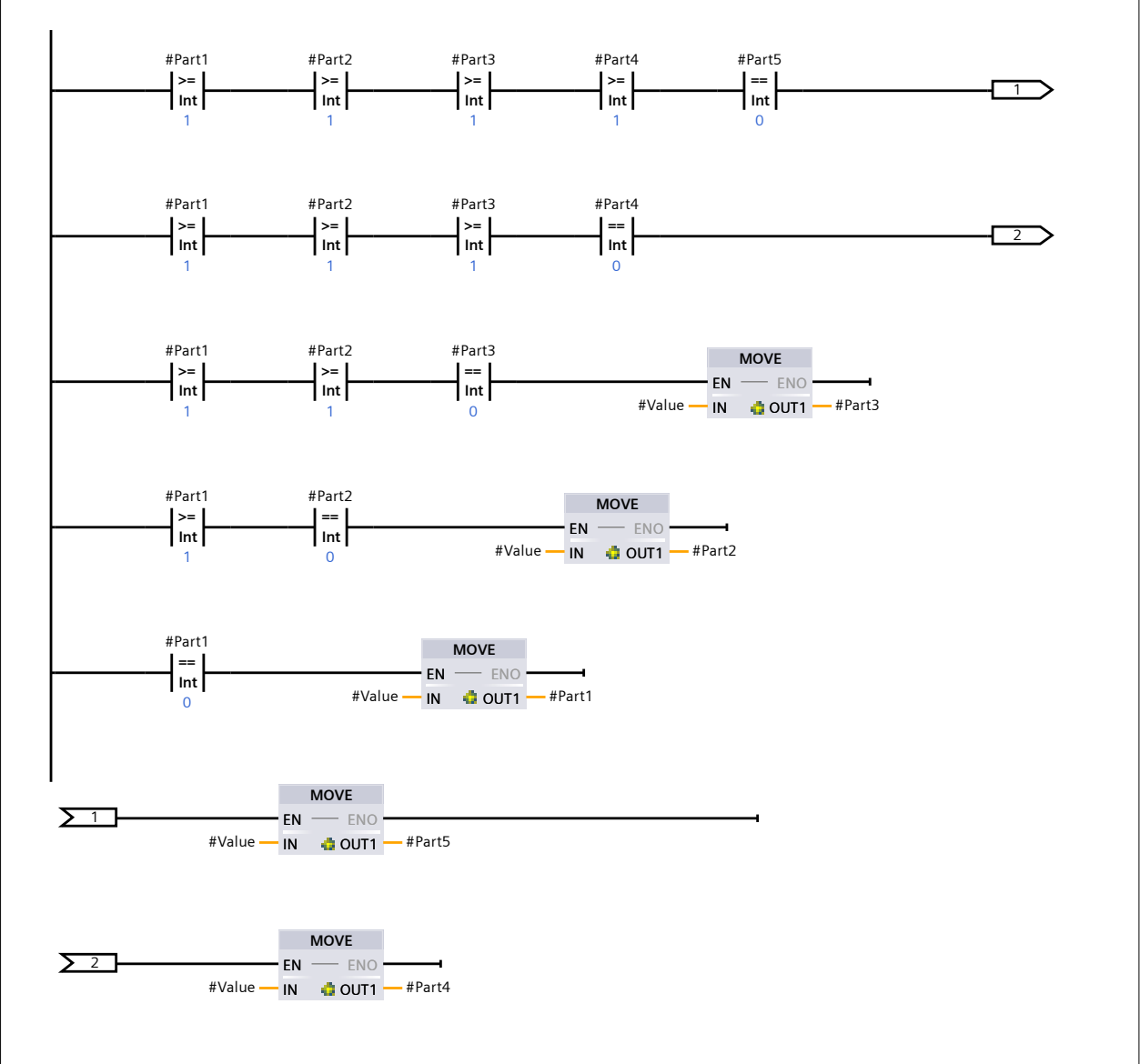
Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

Name	Data type	Default value	Comment
▼ Input			
Value	Int		
Output			
▼ InOut			
Part1	Int		
Part2	Int		
Part3	Int		
Part4	Int		
Part5	Int		
Temp			
Constant			
▼ Return			
Empty Buffer Checker	Void		

Network 1: Empty Buffer Checker

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 11 - 1
Approved By			

Network 1: Empty Buffer Checker



Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 11 - 2
Approved By			

1

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3

4

A

A

PLC_1 [CPU 1516-3 PN/DP]

Technology objects

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules2	Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version
		Sheet 12 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Default tag table [48]

PLC tags

PLC tags									
Name	Data type	Address	Re- tain	Ac- cessi- ble from HMI/ OPC UA	Writ- able from HMI/ OPC UA	Visi- ble in HMI engi- neer- ing	Supervision	Comment	

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View		Version
Approved By			Sheet 13 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Default tag table [48]













User constants

User constants				
	Name	Data type	Value	Comment

Owner	Projectname TrainingModules2		Date6/21/2023			
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
Operator	Location					
	Description 1st					
Designed By	Description 2nd					
Checked By	Language en-US					
Approved By	1st View	Version	Sheet 14 - 1			

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Control Panel [12]

PLC tags

PLC tags									
	Name	Data type	Address	Re- tain	Ac- cessi- ble from HMI/ OPC UA	Writ- able from HMI/ OPC UA	Visi- ble in HMI engi- neer- ing	Supervision	Comment
	Auto Mode	Bool	%I0.0	False	True	True	True		Automaitc Mode Switch
	Auto Mode Start PB	Bool	%I0.1	False	True	True	True		Auto Mode Start Push Button
	Auto Mode Stop PB	Bool	%I0.2	False	True	True	True		Auto Mode Stop Push Button
	Manual Mode	Bool	%I0.3	False	True	True	True		Manual Mode Switch
	Reset Counter	Bool	%I0.4	False	True	True	True		Reset Part Counter
	EStop	Bool	%I0.5	False	True	True	True		Emergency Stop
	Start Light	Bool	%Q0.0	False	True	True	True		Start Push Button Light
	Stop Light	Bool	%Q0.1	False	True	True	True		Stop Push Button Light
	Reset Light	Bool	%Q0.2	False	True	True	True		Reset Push Button Light
	Part Entry Counter	DInt	%QD100	False	True	True	True		Part Entry Counter
	Garbage	Bool	%M10.0	False	True	True	True		Storage for Last Cycle, Not Used
	Garbage2	Bool	%M10.1	False	True	True	True		Storage for Last Cycle, Not Used

Owner	Projectname TrainingModules2		Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 15 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Control Panel [12]

User constants

















User constants

Name	Data type	Value	Comment
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Owner	Project name TrainingModules2	Date 6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version
		Sheet 16 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Conveyor [16]

PLC tags

PLC tags									
	Name	Data type	Address	Re- tain	Ac- cessi- ble from HMI/ OPC UA	Writ- able from HMI/ OPC UA	Visi- ble in HMI engi- neer- ing	Supervision	Comment
	Tall Sensor	Bool	%I0.6	False	True	True	True		Second Level Height Sensor
	Short Sensor	Bool	%I0.7	False	True	True	True		First Level Height Sensor
	Conveyor_Load- er_Entry	Bool	%I1.2	False	True	True	True		Entering the Main Con- veyor
	Conveyor_Left_En- try	Bool	%I1.3	False	True	True	True		Left Conveyor Entry Sensor
	Convey- or_Right_Entry	Bool	%I1.4	False	True	True	True		Right Conveyor Entry Sensor
	Conveyor_Turnta- ble_Entry	Bool	%I1.5	False	True	True	True		Entering the Turntable
	Feeder Conveyor	Bool	%Q0.3	False	True	True	True		Feeder Conveyor Ac- tuator
	Entry Conveyor	Bool	%Q0.4	False	True	True	True		Entry Conveyor Actua- tor
	Left Conveyor	Bool	%Q1.0	False	True	True	True		Left Conveyor Actuator
	Right Conveyor	Bool	%Q1.1	False	True	True	True		Right Conveyor Actua- tor
	Green Indicator	Bool	%Q1.2	False	True	True	True		Green Light Indicator
	Yellow Indicator	Bool	%Q1.3	False	True	True	True		Yellow Light Indicator
	Red Indicator	Bool	%Q1.4	False	True	True	True		Red Light Indicator
	Emitter	Bool	%Q1.5	False	True	True	True		Send Parts
	Remover Left	Bool	%Q1.6	False	True	True	True		Remove Parts Left Side
	Remover Right	Bool	%Q1.7	False	True	True	True		Remove Parts Right Side

Owner	Projectname TrainingModules2		Date 6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 17 - 1
Approved By			

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Conveyor [16]






User constants

User constants				
	Name	Data type	Value	Comment

Owner	Project name	TrainingModules2	Date	6/21/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location			
Designed By	Description 1st			
Checked By	Description 2nd	Language	en-US	
Approved By	1st View	Version	Sheet 18 - 1	

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Part Buffer [5]

PLC tags

PLC tags									
	Name	Data type	Address	Re- tain	Ac- cessi- ble from HMI/ OPC UA	Writ- able from HMI/ OPC UA	Visi- ble in HMI engi- neer- ing	Supervision	Comment
	Part_Space_5	Int	%MW0	False	True	True	True		Part Buffer 5
	Part_Space_4	Int	%MW2	False	True	True	True		Part Buffer 4
	Part_Space_3	Int	%MW4	False	True	True	True		Part Buffer 3
	Part_Space_2	Int	%MW6	False	True	True	True		Part Buffer 2
	Part_Space_1	Int	%MW8	False	True	True	True		Part Buffer 1

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 19 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Part Buffer [5]








User constants

User constants				
	Name	Data type	Value	Comment

Owner	Project name	TrainingModules2	Date	6/21/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location			
Designed By	Description 1st			
Checked By	Description 2nd	Language	en-US	
Approved By	1st View	Version	Sheet 20 - 1	

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Turntable [7]

PLC tags

PLC tags									
	Name	Data type	Address	Re- tain	Ac- cessi- ble from HMI/ OPC UA	Writ- able from HMI/ OPC UA	Visi- ble in HMI engi- neer- ing	Supervision	Comment
	TT_Front	Bool	%I1.0	False	True	True	True		Turn Table Entry Sensor
	TT_Back	Bool	%I1.1	False	True	True	True		Turn Table Exit Sensor
	Home	Bool	%I1.6	False	True	True	True		Turn Table Homed
	Rotated	Bool	%I1.7	False	True	True	True		Turn Table Rotated
	Load (Right)	Bool	%Q0.5	False	True	True	True		Load Right Conveyor (TT)
	Unload (Left)	Bool	%Q0.6	False	True	True	True		Load Left Conveyor (TT)
	Turn CC	Bool	%Q0.7	False	True	True	True		Turn Table Rotate Counter Clockwise

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 21 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Turntable [7]

User constants

User constants				
	Name	Data type	Value	Comment

Owner	Project name TrainingModules2		Date 6/21/2023			
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
Operator	Location					
	Description 1st					
Designed By	Description 2nd		Language en-US			
Checked By	1st View		Version	Sheet 22 - 1		
Approved By						

1

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3

4

A

A

PLC_1 [CPU 1516-3 PN/DP] / PLC data types

System data types

This folder is empty.

B

B

C

C

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E

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F

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Owner	Projectname TrainingModules2	Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version
		Sheet 23 - 1

PLC_1 [CPU 1516-3 PN/DP] / Watch and force tables

Conveyor Line

Name	Address	Display format	Modify value	Comment
"Auto Mode"	%I0.0	Bool	TRUE	
"Auto Mode Start PB"	%I0.1	Bool	FALSE	
"Auto Mode Stop PB"	%I0.2	Bool	TRUE	
"Manual Mode"	%I0.3	Bool		
"Reset Counter"	%I0.4	Bool	FALSE	
"EStop"	%I0.5	Bool	TRUE	
"TT_Front"	%I1.0	Bool		
"TT_Back"	%I1.1	Bool		
"Tall Sensor"	%I0.6	Bool	TRUE	
"Short Sensor"	%I0.7	Bool	TRUE	
"Conveyor_Loader_Entry"	%I1.2	Bool	TRUE	
"Conveyor_Left_Entry"	%I1.3	Bool	TRUE	
"Conveyor_Right_Entry"	%I1.4	Bool	TRUE	
"Conveyor_Turntable_Entry"	%I1.5	Bool	TRUE	
"Home"	%I1.6	Bool	TRUE	
"Rotated"	%I1.7	Bool		
"Feeder Conveyor"	%Q0.3	Bool		
"Entry Conveyor"	%Q0.4	Bool		
"Load (Right)"	%Q0.5	Bool		
"Unload (Left)"	%Q0.6	Bool		
"Turn CC"	%Q0.7	Bool		
"Left Conveyor"	%Q1.0	Bool		
"Right Conveyor"	%Q1.1	Bool		
"Emitter"	%Q1.5	Bool		
"Remover Left"	%Q1.6	Bool		
"Remover Right"	%Q1.7	Bool		
"Part Entry Counter"	%QD100	DEC+/-		
"Part_Space_5"	%MW0	DEC+/-	0	
"Part_Space_4"	%MW2	DEC+/-	0	
"Part_Space_3"	%MW4	DEC+/-	0	
"Part_Space_2"	%MW6	DEC+/-	0	
"Part_Space_1"	%MW8	DEC+/-	0	

Owner	Projectname TrainingModules2	Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
Designed By	Location	
Checked By	Description 1st	
Approved By	Description 2nd	Language en-US
	1st View	Version
		Sheet 24 - 1

PLC_1 [CPU 1516-3 PN/DP] / Watch and force tables

Force table

Name	Address	Display format	Force value	Comment
------	---------	----------------	-------------	---------

Owner	Projectname	TrainingModules2		Date	6/21/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules2			
	Location				
Designed By	Description 1st				
Checked By	Description 2nd	Language		en-US	
Approved By	1st View	Version	Sheet 25 - 1		

1

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3

4

A

A

PLC_1 [CPU 1516-3 PN/DP]

Traces

Name

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 26 - 1

1

2

3

4

A

A

PLC_1 [CPU 1516-3 PN/DP] / Traces

Measurements

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 27 - 1

1

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3

4

A

A

PLC_1 [CPU 1516-3 PN/DP] / Traces

Combined measurements

Name

B

B

C

C

D

D

E

E

Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 28 - 1

F

F

1

2

3

4

A

A

PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication

Server interfaces

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules2	Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version
		Sheet 29 - 1

1

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3

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A

A

PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication

Client interfaces

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules2	Date6/21/2023	
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 30 - 1

1

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3

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A

A

PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

PLC supervisions

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules2	Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version
		Sheet 31 - 1

1

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3

4

A

A

PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

PLC alarms

PLC alarms

No entries

B

B

C

C

D

D

E

E



F

F



Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 32 - 1



PLC_1 [CPU 1516-3 PN/DP] / 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	6/20/2023 8:06 AM
Last change	6/20/2023 8:06 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	6/20/2023 8:06 AM
Last change	6/20/2023 8:06 AM



Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View		Version
Approved By			Sheet 33 - 1



	1	2	3	4	
A					A
B	Created by	System diagnostics			
	Date created	6/20/2023 8:06 AM			
	Last change	6/20/2023 8:06 AM			
	Group ID	0			
	Additional text 1	PLC_1			
	Additional text 2				
	Additional text 3				
	Additional text 4				
	Additional text 5				
	Additional text 6				
C	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			
D	Acknowledgment	False			
	Information only	True			
	Priority	0			
	Report	False			
	Created by	System diagnostics			
	Date created	6/20/2023 8:06 AM			
	Last change	6/20/2023 8:06 AM			
	Group ID	0			
	Additional text 1	PLC_1			
	Additional text 2				
E	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			
F	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			
Owner		Projectname TrainingModules2		Date6/21/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
		Location			
Designed By		Description 1st			
Checked By		Description 2nd		Language en-US	
Approved By		1st View		Version	
				Sheet 33 - 3	

	1	2	3	4			
A							
B	Information only		True				
	Priority		0				
	Report		False				
	Created by		System diagnostics				
	Date created		6/20/2023 8:06 AM				
	Last change		6/20/2023 8:06 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						
	C	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					
D		Created by		System diagnostics			
		Date created		6/20/2023 8:06 AM			
	Last change		6/20/2023 8:06 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						
	E	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@					
F	Owner		Projectname TrainingModules2		Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd		Language en-US		
	Approved By		1st View		Version		Sheet 33 - 4



1		2		3		4		
A	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		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
B	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					
C	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					
D	Created by		System diagnostics					
	Date created		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
	Additional text 1		PLC_1					
	Additional text 2							
	Additional text 3							
	Additional text 4							
	Additional text 5							
	Additional text 6							
E	Additional text 7							
	Additional text 8							
	Additional text 9							
	Name		 SDIAG_ALCAT_CPU_MR_MSG1_0012					
	Type		PLC alarm					
	Owner		Projectname TrainingModules2				Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd				Language en-US	
F	Approved By		1st View				Version	
							Sheet 33 - 5	



	1	2	3	4				
A					A			
B	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		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
	Additional text 1		PLC_1					
	C	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						
D	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		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
	Additional text 1		PLC_1					
	E	Additional text 2						
Additional text 3								
Additional text 4								
Additional text 5								
Additional text 6								
Additional text 7								
F	Owner		Projectname TrainingModules2		Date6/21/2023			
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd		Language en-US			
	Approved By		1st View		Version		Sheet 33 - 6	


1		2		3		4		
A	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		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
	Additional text 1		PLC_1					
	B	Additional text 2						
		Additional text 3						
Additional text 4								
Additional text 5								
Additional text 6								
Additional text 7								
Additional text 8								
Additional text 9								
Name		 SDIAG_ALCAT_ECH_ERR_MSG_0016						
C		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					
D	Created by		System diagnostics					
	Date created		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
	Additional text 1		PLC_1					
	Additional text 2							
	Additional text 3							
	Owner		Projectname TrainingModules2		Date6/21/2023			
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
	Designed By		Location					
Checked By		Description 1st		Language en-US				
Approved By		Description 2nd		Version				
		1st View		Sheet 33 - 7				



	1	2	3	4		
A					A	
B	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			
	C	Information only		True		
Priority		0				
Report		False				
Created by		System diagnostics				
Date created		6/20/2023 8:06 AM				
Last change		6/20/2023 8:06 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						
D		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			
	E	Created by		System diagnostics		
		Date created		6/20/2023 8:06 AM		
F	Owner		Projectname TrainingModules2		Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
			Location			
	Designed By		Description 1st			
	Checked By		Description 2nd		Language en-US	
	Approved By		1st View		Version	
					Sheet 33 - 8	

1		2		3		4		
A	Last change		6/20/2023 8:06 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							
B	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					
	C	Information only		True				
Priority		0						
Report		False						
Created by		System diagnostics						
Date created		6/20/2023 8:06 AM						
Last change		6/20/2023 8:06 AM						
Group ID		0						
Additional text 1		PLC_1						
Additional text 2								
Additional text 3								
D	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					
E	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					
	Owner		Projectname TrainingModules2				Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
	Designed By		Location					
	Checked By		Description 1st				Language en-US	
	Approved By		Description 2nd				Version	
			1st View				Sheet 33 - 9	



	1	2	3	4
A				
B	Information only	True		
	Priority	0		
	Report	False		
	Created by	System diagnostics		
	Date created	6/20/2023 8:06 AM		
	Last change	6/20/2023 8:06 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				
C	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	6/20/2023 8:06 AM		
	Last change	6/20/2023 8:06 AM		
	D	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_001F		
Type		PLC alarm		
ID		19		
Location		PLC_1		
E		Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
F	Owner	Projectname TrainingModules2		Date6/21/2023
	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
		Location		
	Designed By	Description 1st		
	Checked By	Description 2nd	Language en-US	
	Approved By	1st View	Version	Sheet 33 - 10

1		2		3		4		
A	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		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
B	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					
C	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					
D	Created by		System diagnostics					
	Date created		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
	Additional text 1		PLC_1					
	Additional text 2							
	Additional text 3							
	Additional text 4							
	Additional text 5							
	Additional text 6							
E	Additional text 7							
	Additional text 8							
	Additional text 9							
	Name		 SDIAG_ALCAT_ESUB_MD_MSG_0022					
	Type		PLC alarm					
	ID		21					
	Owner		Projectname TrainingModules2				Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
	Designed By		Location					
	Checked By		Description 1st				Language en-US	
F	Approved By		Description 2nd				Version	
			1st View				Sheet 33 - 11	

1		2		3		4			
A	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@						
	B	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		6/20/2023 8:06 AM					
		Last change		6/20/2023 8:06 AM					
		Group ID		0					
	C	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							
D	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		6/20/2023 8:06 AM						
	Last change		6/20/2023 8:06 AM						
	Group ID		0						
	Additional text 1		PLC_1						
	Additional text 2								
	Additional text 3								
	E	Additional text 4							
		Additional text 5							
		Additional text 6							
Additional text 7									
Additional text 8									
F	Owner		Projectname TrainingModules2				Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2						
			Location						
	Designed By		Description 1st						
	Checked By		Description 2nd				Language en-US		
	Approved By		1st View				Version		
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	1	2	3	4		
A					A	
B	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	6/20/2023 8:06 AM				
	Last change	6/20/2023 8:06 AM				
	Group ID	0				
	Additional text 1	PLC_1				
	Additional text 2					
	Additional text 3					
	Additional text 4					
C	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	6/20/2023 8:06 AM				
	Last change	6/20/2023 8:06 AM				
	Group ID	0				
Additional text 1	PLC_1					
Additional text 2						
Additional text 3						
Additional text 4						
Additional text 5						
D					D	
E					E	
F					F	
	Owner		Projectname TrainingModules2		Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
			Location			
	Designed By		Description 1st			
	Checked By		Description 2nd		Language en-US	
	Approved By		1st View		Version	Sheet 33 - 13

1		2		3		4	
A							
B							
C							
D							
E							
F							

Additional text 6			
Additional text 7			
Additional text 8			
Additional text 9			
Name		 SDIAG_ALCAT_CONFIG_REPORT_0029	
Type		PLC alarm	
ID		25	
Location		PLC_1	
Alarm text		Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	
Info text		Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class		No Acknowledgement	
Acknowledgment		False	
Information only		True	
Priority		0	
Report		False	
Created by		System diagnostics	
Date created		6/20/2023 8:06 AM	
Last change		6/20/2023 8:06 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		6/20/2023 8:06 AM	
Last change		6/20/2023 8:06 AM	
Group ID		0	
Additional text 1		PLC_1	
Additional text 2			



Owner		Projectname TrainingModules2		Date6/21/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
		Location			
Designed By		Description 1st			
Checked By		Description 2nd		Language en-US	
Approved By		1st View		Version	
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	1	2	3	4
A				
B				
C				
D				
E				
F				



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	6/20/2023 8:06 AM
Last change	6/20/2023 8:06 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	6/20/2023 8:06 AM
Last change	6/20/2023 8:06 AM
Group ID	0


Owner	Projectname TrainingModules2		Date6/21/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 33 - 15
Approved By			

1		2		3		4	
A	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						
	B	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					
C	Report		False				
	Created by		System diagnostics				
	Date created		6/20/2023 8:06 AM				
	Last change		6/20/2023 8:06 AM				
	Group ID		0				
	Additional text 1		PLC_1				
	Additional text 2						
	Additional text 3						
	Additional text 4						
	Additional text 5						
D	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@				
E	Alarm class		No Acknowledgement				
	Acknowledgment		False				
	Information only		False				
	Priority		0				
	Report		False				
	Created by		System diagnostics				
	Owner		Projectname TrainingModules2		Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2				
	Designed By		Location				
	Checked By		Description 1st		Language en-US		
F	Approved By		1st View		Version		
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	1	2	3	4			
A					A		
B	Date created		6/20/2023 8:06 AM				
	Last change		6/20/2023 8:06 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						
C	Name		 SDIAG_ALCAT_MODULE_MSG_0103				
	Type		PLC alarm				
	ID		31				
	Location		PLC_1				
	Alarm text		Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@				
	Info text		Short name: @6W%t#260K@ Order number: @6W%t#265K@				
	Alarm class		No Acknowledgement				
	Acknowledgment		False				
	Information only		False				
	Priority		0				
	Report		False				
	Created by		System diagnostics				
D	Date created		6/20/2023 8:06 AM				
	Last change		6/20/2023 8:06 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						
E	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				
	F	Owner		Projectname TrainingModules2		Date6/21/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
		Location					
Designed By		Description 1st					
Checked By		Description 2nd		Language en-US			
Approved By		1st View		Version		Sheet 33 - 17	



1		2		3		4	
A	Priority	0					
	Report	False					
	Created by	System diagnostics					
	Date created	6/20/2023 8:06 AM					
	Last change	6/20/2023 8:06 AM					
	Group ID	0					
	Additional text 1	PLC_1					
	Additional text 2						
	Additional text 3						
	Additional text 4						
B	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@					
C	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	6/20/2023 8:06 AM					
	Last change	6/20/2023 8:06 AM					
	Group ID	0					
D	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					
E	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@					
F	Owner		Projectname TrainingModules2			Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd			Language en-US	
	Approved By		1st View			Version	
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	1	2	3	4	
A					A
B	Alarm class	No Acknowledgement			
	Acknowledgment	False			
	Information only	False			
	Priority	0			
	Report	False			
	Created by	System diagnostics			
	Date created	6/20/2023 8:06 AM			
	Last change	6/20/2023 8:06 AM			
	Group ID	0			
	Additional text 1	PLC_1			
	Additional text 2				
	Additional text 3				
	Additional text 4				
	Additional text 5				
	C	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			
D		Priority	0		
		Report	False		
	Created by	System diagnostics			
	Date created	6/20/2023 8:06 AM			
	Last change	6/20/2023 8:06 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				
	E	Additional text 8			
		Additional text 9			
Name		 SDIAG_ALCAT_CPU_ERR_MSG_0110			
Type		PLC alarm			
ID		36			
Location		PLC_1			
F		Owner	Projectname TrainingModules2		Date6/21/2023
	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
		Location			
	Designed By	Description 1st			
	Checked By	Description 2nd	Language en-US		
	Approved By	1st View	Version	Sheet 33 - 19	



1		2		3		4				
A							A			
B	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@					B		
	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		6/20/2023 8:06 AM							
	Last change		6/20/2023 8:06 AM							
	Group ID		0							
	Additional text 1		PLC_1							
	Additional text 2									
	Additional text 3									
	Additional text 4									
	Additional text 5									
	C	Additional text 6							C	
		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								
D		Created by		System diagnostics						D
		Date created		6/20/2023 8:06 AM						
		Last change		6/20/2023 8:06 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									
	E								E	
F										F



Owner		Projectname TrainingModules2		Date6/21/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
		Location			
Designed By		Description 1st			
Checked By		Description 2nd		Language en-US	
Approved By		1st View		Version	
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	1	2	3	4			
A					A		
B	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		6/20/2023 8:06 AM				
	Last change		6/20/2023 8:06 AM				
	Group ID		0				
	Additional text 1		PLC_1				
	Additional text 2						
	C	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					
D		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		6/20/2023 8:06 AM				
	Last change		6/20/2023 8:06 AM				
	Group ID		0				
	Additional text 1		PLC_1				
	Additional text 2						
	E	Additional text 3					
		Additional text 4					
		Additional text 5					
F	Owner		Projectname TrainingModules2		Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd		Language en-US		
	Approved By		1st View		Version		Sheet 33 - 21



1		2		3		4		
A								
	B	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		6/20/2023 8:06 AM				
		Last change		6/20/2023 8:06 AM				
C		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		6/20/2023 8:06 AM						
Last change		6/20/2023 8:06 AM						
Group ID		0						
D								
E								
F	Owner		Projectname TrainingModules2			Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd			Language en-US		
	Approved By		1st View			Version		
						Sheet 33 - 22		

1		2		3		4	
A	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						
	B	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					
C	Report		False				
	Created by		System diagnostics				
	Date created		6/20/2023 8:06 AM				
	Last change		6/20/2023 8:06 AM				
	Group ID		0				
	Additional text 1		PLC_1				
	Additional text 2						
	Additional text 3						
	Additional text 4						
	Additional text 5						
D	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@				
E	Alarm class		No Acknowledgement				
	Acknowledgment		False				
	Information only		False				
	Priority		0				
	Owner		Projectname TrainingModules2		Date6/21/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2				
	Designed By		Location				
	Checked By		Description 1st		Language en-US		
	Approved By		Description 2nd		Version		
			1st View		Sheet 33 - 23		

	1	2	3	4																					
A	Report		False																						
	Created by		System diagnostics																						
	Date created		6/20/2023 8:06 AM																						
	Last change		6/20/2023 8:06 AM																						
	Group ID		0																						
	Additional text 1		PLC_1																						
	Additional text 2																								
	Additional text 3																								
	Additional text 4																								
	Additional text 5																								
	B	Additional text 6																							
		Additional text 7																							
		Additional text 8																							
		Additional text 9																							
		Name		 SDIAG_ALCAT_ECH_MR_MSG_011C																					
C	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																						
	D	Created by		System diagnostics																					
		Date created		6/20/2023 8:06 AM																					
		Last change		6/20/2023 8:06 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																									
E		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@																						
	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules2</td> <td>Date6/21/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules2</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 33 - 24</td> </tr> </table>				Owner	Projectname TrainingModules2		Date6/21/2023	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version
Owner	Projectname TrainingModules2		Date6/21/2023																						
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2																								
Operator	Location																								
	Description 1st																								
Designed By	Description 2nd		Language en-US																						
Checked By	1st View	Version	Sheet 33 - 24																						
F																									

	1	2	3	4				
A					A			
B	Alarm class		No Acknowledgement					
	Acknowledgment		False					
	Information only		False					
	Priority		0					
	Report		False					
	Created by		System diagnostics					
	Date created		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 AM					
	Group ID		0					
	Additional text 1		PLC_1					
	Additional text 2							
	Additional text 3							
	Additional text 4							
	Additional text 5							
	C	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						
D		Priority		0				
		Report		False				
	Created by		System diagnostics					
	Date created		6/20/2023 8:06 AM					
	Last change		6/20/2023 8:06 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							
	E	Additional text 8						
		Additional text 9						
Name		 SDIAG_ALCAT_SUB_MD_MSG_0121						
Type		PLC alarm						
ID		47						
Location		PLC_1						
F		Owner		Projectname TrainingModules2		Date6/21/2023		
		Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2				
	Location							
	Designed By		Description 1st					
	Checked By		Description 2nd		Language en-US			
	Approved By		1st View		Version		Sheet 33 - 25	

	1	2	3	4	
A					A
B	Alarm text	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@			B
	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	6/20/2023 8:06 AM			
	Last change	6/20/2023 8:06 AM			
C	Group ID	0			C
	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				
D	Name	 SDIAG_ALCAT_ESUB_MD_MSG_0122			D
	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			
E	Report	False			E
	Created by	System diagnostics			
	Date created	6/20/2023 8:06 AM			
	Last change	6/20/2023 8:06 AM			
	Group ID	0			
	Additional text 1	PLC_1			
	Additional text 2				
	Additional text 3				
	Additional text 4				
	Additional text 5				
F	Additional text 6				F
	Additional text 7				
	Additional text 8				
	Additional text 9				
Owner		Projectname TrainingModules2		Date6/21/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
		Location			
Designed By		Description 1st			
Checked By		Description 2nd		Language en-US	
Approved By		1st View		Version	
				Sheet 33 - 26	

1		2		3		4			
A	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		6/20/2023 8:06 AM						
	Last change		6/20/2023 8:06 AM						
	Group ID		0						
	Additional text 1		PLC_1						
	Additional text 2								
	Additional text 3								
	B	Additional text 4							
		Additional text 5							
Additional text 6									
Additional text 7									
Additional text 8									
Additional text 9									
Name		 SDIAG_ALCAT_ESUB_MR_MSG_0125							
Type		PLC alarm							
ID		50							
Location		PLC_1							
C	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		6/20/2023 8:06 AM						
	Last change		6/20/2023 8:06 AM						
D	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								
E	Additional text 10								
	Additional text 11								
	Additional text 12								
	Additional text 13								
	Additional text 14								
	Additional text 15								
	Additional text 16								
	Additional text 17								
	Additional text 18								
	Additional text 19								
F	Additional text 20								
	Additional text 21								
	Additional text 22								
	Additional text 23								
	Additional text 24								
	Additional text 25								
	Additional text 26								
	Additional text 27								
	Additional text 28								
	Additional text 29								

Owner		Projectname TrainingModules2		Date6/21/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			
Designed By		Location			
Checked By		Description 1st		Language en-US	
Approved By		Description 2nd		Version	
		1st View		Sheet 33 - 27	

	1	2	3	4	
A					A
B	Additional text 4				
	Additional text 5				
	Additional text 6				
	Additional text 7				
	Additional text 8				
	Additional text 9				
C					C
D					D
E					E
F	Owner		Projectname TrainingModules2		Date6/21/2023
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2		
Location					
	Designed By		Description 1st		
	Checked By		Description 2nd		Language en-US
	Approved By		1st View		Version
					Sheet 33 - 29

1

2

3

4

A

A

PLC_1 [CPU 1516-3 PN/DP]

PLC alarm text lists

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules2	Date6/21/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version
		Sheet 34 - 1

PLC_1 [CPU 1516-3 PN/DP] / Local modules

PLC_1 [CPU 1516-3 PN/DP]

PLC_1

General\Project information

Name	PLC_1	Author	Ilruoha
Comment		Rack	0
Slot	1		

General\Catalog information

Short designation	CPU 1516-3 PN/DP	Description	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit instruction time; 4-stage protection concept, technology functions: motion control, closed-loop control, counting & measuring; tracing; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-device, MRP, MRPD, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, DNS client, OPC UA: server DA, client DA, methods, companion specifications; constant bus cycle time, routing; 2nd interface: PROFINET IO controller, supports RT, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, DNS client, OPC UA: server DA, client DA, methods, companion specifications; routing; 3rd interface: PROFIBUS DP master, S7 communication, constant bus cycle time, routing; Runtime options, firmware V2.6
Article number	6ES7 516-3AN01-0AB0	Firmware version	V2.6

General\Identification & Maintenance

Plant designation		Location identifier	
Installation date	2023-06-19 16:16:51.776	Additional information	

General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	Not available (compile necessary)
------------	-------------------------	----------	-----------------------------------

PROFINET interface [X1]\General

Name	PROFINET interface_1	Author	Ilruoha
Comment			



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

Subnet:	Not connected
---------	---------------


Owner	Projectname	TrainingModules2	Date	6/21/2023
Operator	Project path	C:\Users\Ilruoha\Documents\Automation\TrainingModules2		
Designed By	Location			
Checked By	Description 1st			
Approved By	Description 2nd	Language	en-US	
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PROFINET interface [X1]\Ethernet addresses\IP protocol			
IP configuration	Set IP address in the project	IP address:	192.168.0.1
Subnet mask:	255.255.255.0	Use router	False
PROFINET interface [X1]\Ethernet addresses\PROFINET			
PROFINET device name is set directly at the device	False	Generate PROFINET device name automatically	True
PROFINET device name:	plc_1.profinet interface_1	Converted name:	plcxb1.profinetxainterfacexb1036c
Device number:	0		
PROFINET interface [X1]\Time 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:	1.000ms		
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	Ilruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	Medium:	Copper
Cable name:	---		

Owner	Projectname TrainingModules2		Date6/21/2023
Operator	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 35 - 2

1		2		3		4		
A								A
								
B	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							
	C	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	Ilruoha		
	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:		---					
								
E	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					
F	Owner		Projectname TrainingModules2			Date6/21/2023		
	Operator		Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd		Language en-US			
	Approved By		1st View		Version	Sheet 35 - 3		

	1	2	3	4																						
A	<div>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection</div> <table border="1"> <tr> <td>Transmission rate / duplex:</td> <td>Automatic</td> <td>Monitor</td> <td>False</td> </tr> <tr> <td>Enable autonegotiation</td> <td>True</td> <td></td> <td></td> </tr> </table>				Transmission rate / duplex:	Automatic	Monitor	False	Enable autonegotiation	True																
Transmission rate / duplex:	Automatic	Monitor	False																							
Enable autonegotiation	True																									
B	<div>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries</div> <table border="1"> <tr> <td>End of detection of accessible devices</td> <td>False</td> <td>End of topology discovery</td> <td>False</td> </tr> <tr> <td>End of the sync domain</td> <td>False</td> <td></td> <td></td> </tr> </table>				End of detection of accessible devices	False	End of topology discovery	False	End of the sync domain	False																
End of detection of accessible devices	False	End of topology discovery	False																							
End of the sync domain	False																									
B	<div>PROFINET interface [X1]\Web server access</div> <table border="1"> <tr> <td>Note</td> <td>The Web server must also be activated in the properties of the PLC.</td> <td>Enable Web server using this interface</td> <td>False</td> </tr> </table>				Note	The Web server must also be activated in the properties of the PLC.	Enable Web server using this interface	False																		
Note	The Web server must also be activated in the properties of the PLC.	Enable Web server using this interface	False																							
C	<div>PROFINET interface [X2]\General</div> <table border="1"> <tr> <td>Name</td> <td>PROFINET interface_2</td> <td>Author</td> <td>Ilruoha</td> </tr> <tr> <td>Comment</td> <td></td> <td></td> <td></td> </tr> </table>				Name	PROFINET interface_2	Author	Ilruoha	Comment																	
Name	PROFINET interface_2	Author	Ilruoha																							
Comment																										
C	<div>PROFINET interface [X2]\Ethernet addresses\Interface networked with</div> <table border="1"> <tr> <td>Subnet:</td> <td>Not connected</td> <td></td> <td></td> </tr> </table>				Subnet:	Not connected																				
Subnet:	Not connected																									
C	<div>PROFINET interface [X2]\Ethernet addresses\IP protocol</div> <table border="1"> <tr> <td>IP configuration</td> <td>Set IP address in the project</td> <td>IP address:</td> <td>192.168.1.1</td> </tr> <tr> <td>Subnet mask:</td> <td>255.255.255.0</td> <td>Use router</td> <td>False</td> </tr> </table>				IP configuration	Set IP address in the project	IP address:	192.168.1.1	Subnet mask:	255.255.255.0	Use router	False														
IP configuration	Set IP address in the project	IP address:	192.168.1.1																							
Subnet mask:	255.255.255.0	Use router	False																							
C	<div>PROFINET interface [X2]\Ethernet addresses\PROFINET</div> <table border="1"> <tr> <td>PROFINET device name is set directly at the device</td> <td>False</td> <td>Generate PROFINET device name automatically</td> <td>True</td> </tr> <tr> <td>PROFINET device name:</td> <td>plc_1.profinet interface_2</td> <td>Converted name:</td> <td>plcxb1.profinetxainterfacexb2022c</td> </tr> <tr> <td>Device number:</td> <td>0</td> <td></td> <td></td> </tr> </table>				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 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																									
D	<div>PROFINET interface [X2]\Time synchronization\NTP mode</div> <table border="1"> <tr> <td>Note</td> <td>Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].</td> <td>Enable time synchronization via NTP server</td> <td>False</td> </tr> <tr> <td></td> <td>IP addresses</td> <td>Server 1</td> <td>0.0.0.0</td> </tr> <tr> <td>Server 2</td> <td>0.0.0.0</td> <td>Server 3</td> <td>0.0.0.0</td> </tr> <tr> <td>Server 4</td> <td>0.0.0.0</td> <td>Update interval</td> <td>10s</td> </tr> </table>				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						
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																							
E	<div>PROFINET interface [X2]\Operating mode</div> <table border="1"> <tr> <td>IO controller</td> <td>True</td> <td>IO system</td> <td></td> </tr> <tr> <td>Device number</td> <td>0</td> <td>IO device</td> <td>False</td> </tr> </table>				IO controller	True	IO system		Device number	0	IO device	False														
IO controller	True	IO system																								
Device number	0	IO device	False																							
E	<div>PROFINET interface [X2]\Advanced options\Interface options</div> <table border="1"> <tr> <td>Call the user program if communication errors occur</td> <td>False</td> <td>Support device replacement without exchangeable medium</td> <td>True</td> </tr> <tr> <td>Permit overwriting of device names of all assigned IO devices</td> <td>False</td> <td>Limit data infeed into the network</td> <td>False</td> </tr> </table>				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														
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Permit overwriting of device names of all assigned IO devices	False	Limit data infeed into the network	False																							
F	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules2</td> <td>Date6/21/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 35 - 4</td> </tr> </table>				Owner	Projectname TrainingModules2		Date6/21/2023	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 35 - 4
Owner	Projectname TrainingModules2		Date6/21/2023																							
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	Description 1st																									
Designed By	Description 2nd		Language en-US																							
Checked By	1st View	Version	Sheet 35 - 4																							

	1	2	3	4																						
A	Use IEC V2.2 LLDP mode	False	Keep-Alive connection monitoring:	30s																						
	PROFINET interface [X2]\Advanced options\Real time settings\IO communication																									
	Send clock:	1.000ms																								
	PROFINET interface [X2]\Advanced options\Real time settings\Real time options																									
	Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%																						
	PROFINET interface [X2]\Advanced options\Port [X2 P1]\General																									
	Name	Port_1	Author	Ilruoha																						
B	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																						
D	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 using this interface	False																						
	DP interface [X3]\General																									
	Name	DP interface_1	Author	Ilruoha																						
E	Comment																									
	DP interface [X3]\PROFIBUS address\Interface networked with																									
	Subnet:	Not networked																								
	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules2</td> <td>Date6/21/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 35 - 5</td> </tr> </table>				Owner	Projectname TrainingModules2		Date6/21/2023	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules2			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 35 - 5
Owner	Projectname TrainingModules2		Date6/21/2023																							
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Designed By	Description 2nd		Language en-US																							
Checked By	1st View	Version	Sheet 35 - 5																							
F																										

	1	2	3	4
A	DP interface [X3]\PROFIBUS address\Parameters Address: 2 Highest address:			
	Transmission speed:			
B	DP interface [X3]\Operating mode\ Operating mode DP master DP master system: Not created			
	DP interface [X3]\Time synchronization\SIMATIC mode Synchronization type None Time interval None			
B	DP interface [X3]\SYNC/FREEZE\			
	Group	SYNC	FREEZE	Comment
	1	True	True	
	2	True	True	
	3	True	True	
	4	True	True	
	5	True	True	
	6	True	True	
	7	True	True	
	8	True	True	
C	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			
C	Cycle Maximum cycle time 150ms			
	Enable minimum cycle time for cyclic OBs True Minimum cycle time 1ms			
D	Communication load Cycle load due to communication 50%			
	System and clock memory\System memory bits Enable the use of system memory byte False Address of system memory byte (MBx) 1			
D	First cycle Diagnostic status changed			
	Always 1 (high) Always 0 (low)			
E	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%			
F	Owner		Projectname TrainingModules2 Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
	Designed By		Location	
	Checked By		Description 1st	
	Approved By		Description 2nd Language en-US	
			1st View Version Sheet 35 - 6	

	1	2	3	4																						
A	<div>System diagnostics\General</div> <div> <div>Activate system diagnostics for this device</div> <div>True</div> <div>Report network faults as maintenance instead of fault</div> <div>False</div> </div>																									
B	<div>PLC alarms\General</div> <div> <div>Central alarm management in the PLC</div> <div>True</div> </div> <div>Web server\General</div> <div> <div>Activate web server on this module</div> <div>False</div> <div>Permit access only with HTTPS</div> <div>True</div> </div> <div>Web server\Automatic update</div> <div> <div>Enable automatic update</div> <div>True</div> <div>Update interval</div> <div>0s</div> </div> <div>Web server\User management</div> <div> <div>User name</div> <div>Everybody</div> <div>User rights</div> </div>																									
	<div>Web server\User-defined web pages</div> <div> <div>Application name</div> <div>HTML source path</div> <div>Default HTML page</div> <div>Files with dynamic content</div> <div>Web DB number</div> <div>Fragment DB number</div> </div>																									
	<div> <div></div> <div></div> <div>index.htm</div> <div>.htm;.html</div> <div>333</div> <div>334</div> </div>																									
	<div>Web server\Overview of interfaces</div> <div> <div>Device</div> <div>Interface</div> <div>Enabled web server access</div> </div>																									
	<div> <div>PLC_1</div> <div>PROFINET interface_1</div> <div>False</div> </div> <div> <div>PLC_1</div> <div>PROFINET interface_2</div> <div>False</div> </div>																									
C	<div>DNS configuration</div> <div>No DNS server address is configured.</div>																									
D	<div>Display\General\Display standby mode</div> <div> <div>Time to standby mode</div> <div>30 minutes</div> </div> <div>Display\General\Energy saving mode</div> <div> <div>Time to energy saving mode</div> <div>15 minutes</div> </div> <div>Display\General\Display language</div> <div> <div>Default language on display</div> <div>English</div> </div> <div>Display\Automatic update</div> <div> <div>Time to update</div> <div>5 seconds</div> </div> <div>Display\Password\Display protection</div> <div> <div>Enable write access</div> <div>True</div> <div>Enable display protection</div> <div>False</div> </div> <div>Display\User-defined logo\</div> <div> <div>User logo activated</div> <div>False</div> <div>Adapt logo</div> <div>False</div> </div> <div> <div>Resolution</div> <div>240x260</div> <div>Company logo</div> <div>---</div> </div>																									
E																										
F	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules2</td> <td>Date6/21/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules2</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 35 - 7</td> </tr> </table>				Owner	Projectname TrainingModules2		Date6/21/2023	Project path C:\Users\llruoha\Documents\Automation\TrainingModules2			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 35 - 7
	Owner	Projectname TrainingModules2		Date6/21/2023																						
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Designed By	Description 2nd		Language en-US																							
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	1	2	3	4
A				
B	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)	
	C	Time of day\Local time		
Time zone		(UTC) Dublin, Edinburgh, Lisbon, London		
Time of day\Daylight saving time				
Activate daylight saving time		True	Difference between standard and daylight saving time	60mins
Time of day\Daylight saving time\Start of daylight saving time				
Selection of the week of		Last	Selection of the weekday at	Sunday
		March		01:00 a.m.
Time of day\Daylight saving time\Start of standard time				
Selection of the week of		Last	Selection of the weekday at	Sunday
		October		02:00 a.m.
D	Protection			
	Level of protection	Full access (no protection)		
	Protection\Connection mechanisms			
	Permit access with PUT/GET communication from remote partner	True		
	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		
	OPC UA\Accessibility of the client			
E	Activate OPC UA client	False		
	System power supply\General			
	General	Connection to supply voltage L+		
F	Owner		Projectname TrainingModules2	
			Date6/21/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules2	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
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		Language en-US		
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System power supply\Power segment overview

Module	Slot	Supply/consumption
PLC_1	1	12.00W
	Summary	12.00W

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 1516-3 PN/DP] - Configured
Maximum number of resources:		10	118	128
	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	-	-	-
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		10	118	128

Overview of addresses\Overview of addresses\Overview of addresses

Inputs	True	Outputs	True
Address gaps	False	Slot	True

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
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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
---------------------------------	------------	----------------------------------	------------

Owner	Projectname TrainingModules2	Date6/21/2023
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