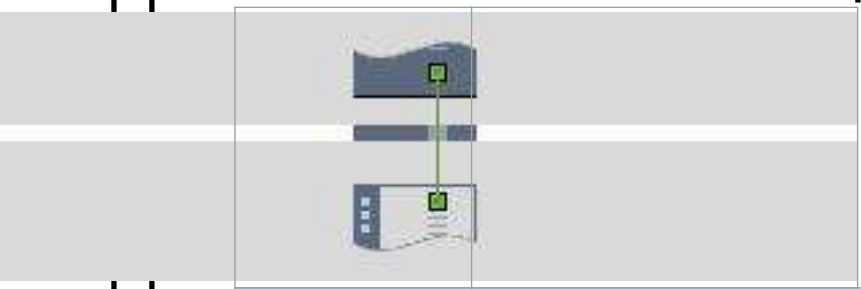
PLC_1 [CPU 1516-3 PN/DP]

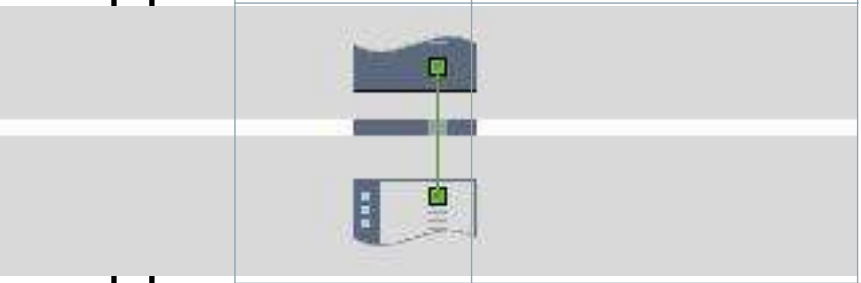
PLC_1			
General\Project information			
Name	PLC_1	**Author**	Iruoha
Comment		**Rack**	0
Slot	1		
General\Catalog information			
Short designation	CPU 1516-3 PN/DP	**Description**	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit instruction time; 4-stage protection concept, technology 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**	Iruoha
Comment			
PROFINET interface [X1]\Ethernet addresses\Interface networked with			
Subnet:	Not connected		
PROFINET interface [X1]\Ethernet addresses\IP protocol			
IP configuration	Set IP address in the project	**IP address:**	192.168.0.1

Owner	Project name TrainingModules2	Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2	
Operator	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version / Sheet 1 - 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**	IIruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	**Medium:**	Copper
Cable name:	---		



PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\General			
Name	Port_2	**Author**	IIruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_2 [X1 P2 R]	**Medium:**	Copper
Cable name:	---		



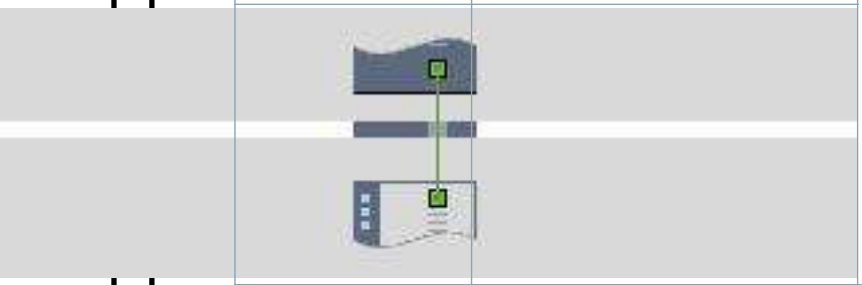
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate			
Activate this port for use	True		

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 1 - 3

PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X1]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	**Enable Web server using this interface**	False
PROFINET interface [X2]\General			
Name	PROFINET interface_2	**Author**	IIruoha
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			
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

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

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**	IIruoha
Comment			
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_2 [X2]\Port_1 [X2 P1]	**Medium:**	Copper
Cable name:	---		



PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X2]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	**Enable Web server using this interface**	False
DP interface [X3]\General			
Name	DP interface_1	**Author**	IIruoha
Comment			
DP interface [X3]\PROFIBUS address\Interface networked with			
Subnet:	Not networked		

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

DP interface [X3]\PROFIBUS address\Parameters			
Address:	2	**Highest address:**	
Transmission speed:			
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

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	

Startup			
Startup after POWER ON	Warm restart - Operating mode before POWER OFF	**Comparison preset to actual configuration**	Startup CPU even if mismatch
Configuration time	60000ms		
Cycle			
Maximum cycle time	150ms		
Enable minimum cycle time for cyclic OBs	True	**Minimum cycle time**	1ms
Communication load			
Cycle load due to communication	50%		
System and clock memory\System memory bits			
Enable the use of system memory byte	False	**Address of system memory byte (MBx)**	1
First cycle		**Diagnostic status changed**	
Always 1 (high)		**Always 0 (low)**	
System and clock memory\Clock memory bits			
Enable the use of clock memory byte	False	**Address of clock memory byte (MBx)**	0
10 Hz clock		**5 Hz clock**	
2.5 Hz clock		**2 Hz clock**	
1.25 Hz clock		**1 Hz clock**	
0.625 Hz clock		**0.5 Hz clock**	
SIMATIC Memory Card\Diagnostics			
Aging of the SIMATIC memory card	False	**Threshold value**	80%

System diagnostics\General			
Activate system diagnostics for this device	True	**Report network faults as maintenance instead of fault**	False
PLC alarms\General			
Central alarm management in the PLC	True		
Web server\General			
Activate web server on this module	False	**Permit access only with HTTPS**	True
Web server\Automatic update			
Enable automatic update	True	**Update interval**	0s

Web server\User management

User name	User rights
Everybody	

Web server\User-defined web pages

Application name	HTML source path	Default HTML page	Files with dynamic content	Web DB number	Fragment DB number
		index.htm	.htm;.html	333	334

Web server\Overview of interfaces

Device	Interface	Enabled web server access
PLC_1	PROFINET interface_1	False
PLC_1	PROFINET interface_2	False

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		
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**	---

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

User interface languages	
Assign project language	**User interface languages**
English (United States)	German
English (United States)	English
English (United States)	French
English (United States)	Spanish
English (United States)	Italian
English (United States)	Japanese
English (United States)	Chinese (simplified)
English (United States)	Korean
English (United States)	Russian
English (United States)	Turkish
English (United States)	Portuguese (Brazil)

Time of day\Local time			
Time zone	(UTC) Dublin, Edinburgh, Lisbon, London		

Time of day\Daylight saving time			
Activate daylight saving time	True	**Difference between standard and day-light saving time**	60mins

Time of day\Daylight saving time\Start of daylight saving time			
Selection of the week	Last	**Selection of the weekday**	Sunday
of	March	**at**	01:00 a.m.

Time of day\Daylight saving time\Start of standard time			
Selection of the week	Last	**Selection of the weekday**	Sunday
of	October	**at**	02:00 a.m.

Protection	
Level of protection	Full access (no protection)

Protection\Connection mechanisms	
Permit access with PUT/GET communi-cation from remote partner	True

Protection\Security event			
Summarize security events in case of high message vol-ume	True	**Length of an inter-val**	20
Unit	seconds		

OPC UA\Accessibility of the server	
Activate OPC UA server	False

OPC UA\Accessibility of the client	
Activate OPC UA cli-ent	False

System power supply\General	
General	Connection to supply voltage L+

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

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

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

PLC_1 [CPU 1516-3 PN/DP]

Software units

This folder is empty.

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

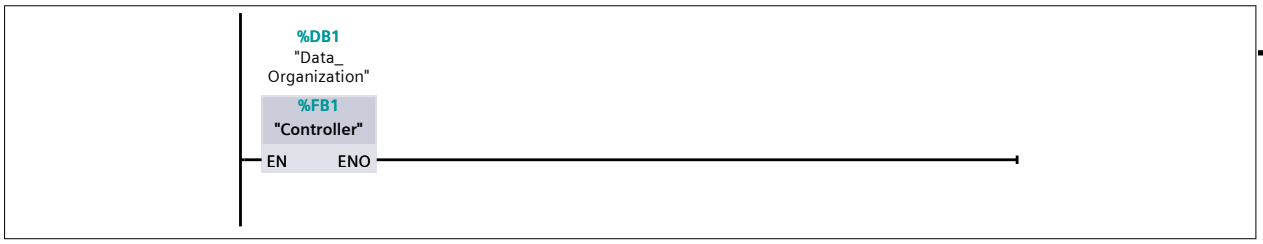
PLC_1 [CPU 1516-3 PN/DP] / Program blocks

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	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 3 - 1

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**	

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

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ //			
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
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
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
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**	
▼ //			
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
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**	
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
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**	False
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
Supervision		**Comment**	
Name	CD	**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
Supervision		**Comment**	
Name	R	**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
Supervision		**Comment**	
Name	LD	**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
Supervision		**Comment**	
Name	QU	**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
Supervision		**Comment**	
Name	QD	**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
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
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	Turntable Logic	**Data type**	"Turntable Logic"
Default value		**Retain**	
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
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	**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
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
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Home	**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 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	TT_Entry	**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	TT_Exit	**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	Rotated	**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	Output	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	TT_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	Rotate	**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	Dropoff_Rollers_Left	**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**	
Supervision		**Comment**	
Name	Garbage	**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	Part_Buffer_Bottom	**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
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	Elapsed TIme	**Data type**	DInt
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
Supervision		**Comment**	
Name	Auto Stopped	**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 Timers	**Data type**	TP_TIME
Default value		**Retain**	Non-retain

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	PT	**Data type**	Time
Default value	T#0ms	**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	ET	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	IN	**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	Q	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Load Table	**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	Dropoff_Rollers_Right	**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	Rotation Ready	**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	Conveyor Logic_Entry	**Data type**	"Conveyor Logic"
Default value		**Retain**	
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
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
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
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
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**	
▼ //			
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
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**	
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
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
Supervision		**Comment**	
Name	CD	**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
Supervision		**Comment**	
Name	R	**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
Supervision		**Comment**	
Name	LD	**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
Supervision		**Comment**	
Name	QU	**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
Supervision		**Comment**	
Name	QD	**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
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
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	Conveyor Logic_Left	**Data type**	"Conveyor Logic"
Default value		**Retain**	
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
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
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
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
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**	
▼ //			
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
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**	
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
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
Supervision		**Comment**	
Name	CD	**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
Supervision		**Comment**	
Name	R	**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
Supervision		**Comment**	
Name	LD	**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
Supervision		**Comment**	
Name	QU	**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
Supervision		**Comment**	
Name	QD	**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
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
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	Conveyor Logic_Right	**Data type**	"Conveyor Logic"
Default value		**Retain**	
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	

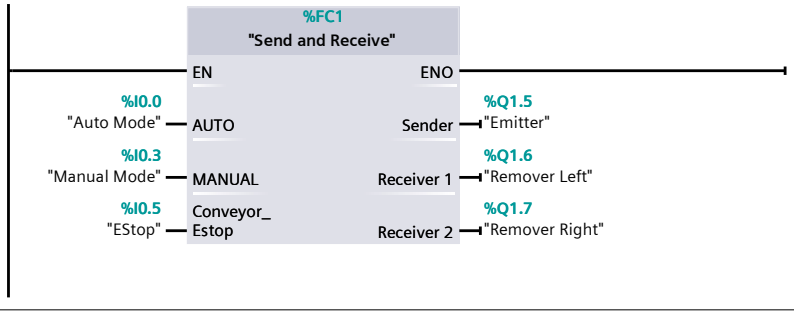
//			
Name	Input	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True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

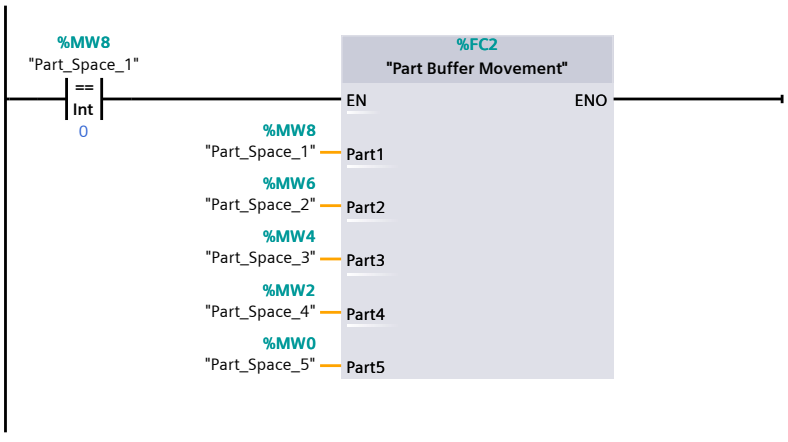
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
▼ //			
Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Conveyor Started	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
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
Supervision		**Comment**	
Name	CD	**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
Supervision		**Comment**	
Name	R	**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
Supervision		**Comment**	
Name	LD	**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
Supervision		**Comment**	
Name	QU	**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
Supervision		**Comment**	
Name	QD	**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
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
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	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: Call the Send and Receive function



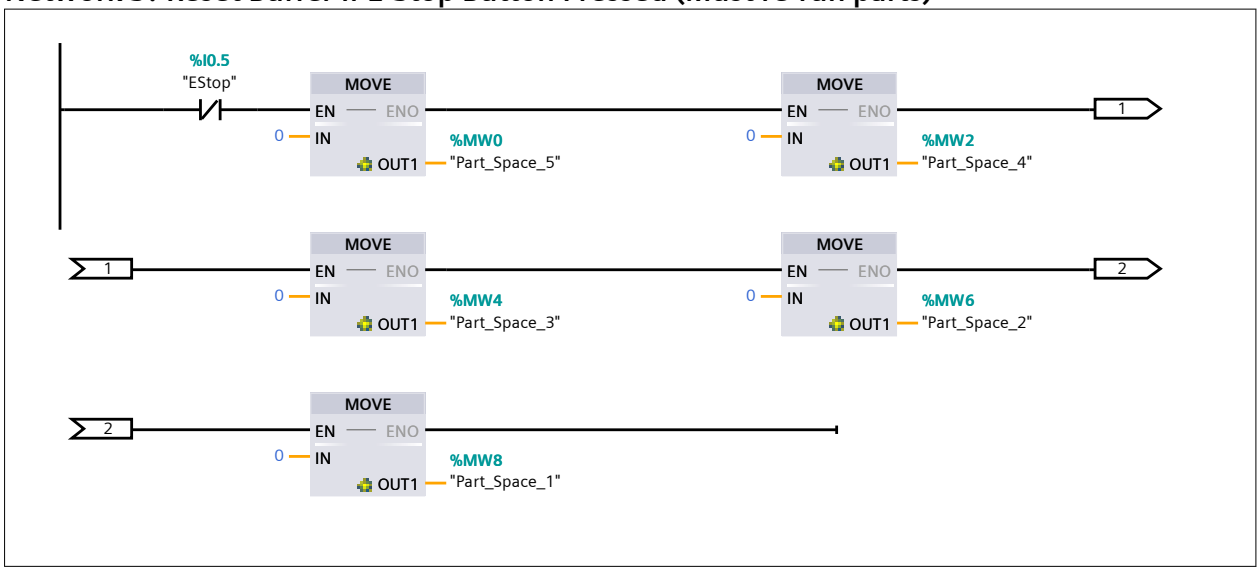
Network 2: Ensure that Part 1 Buffer has a Value



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

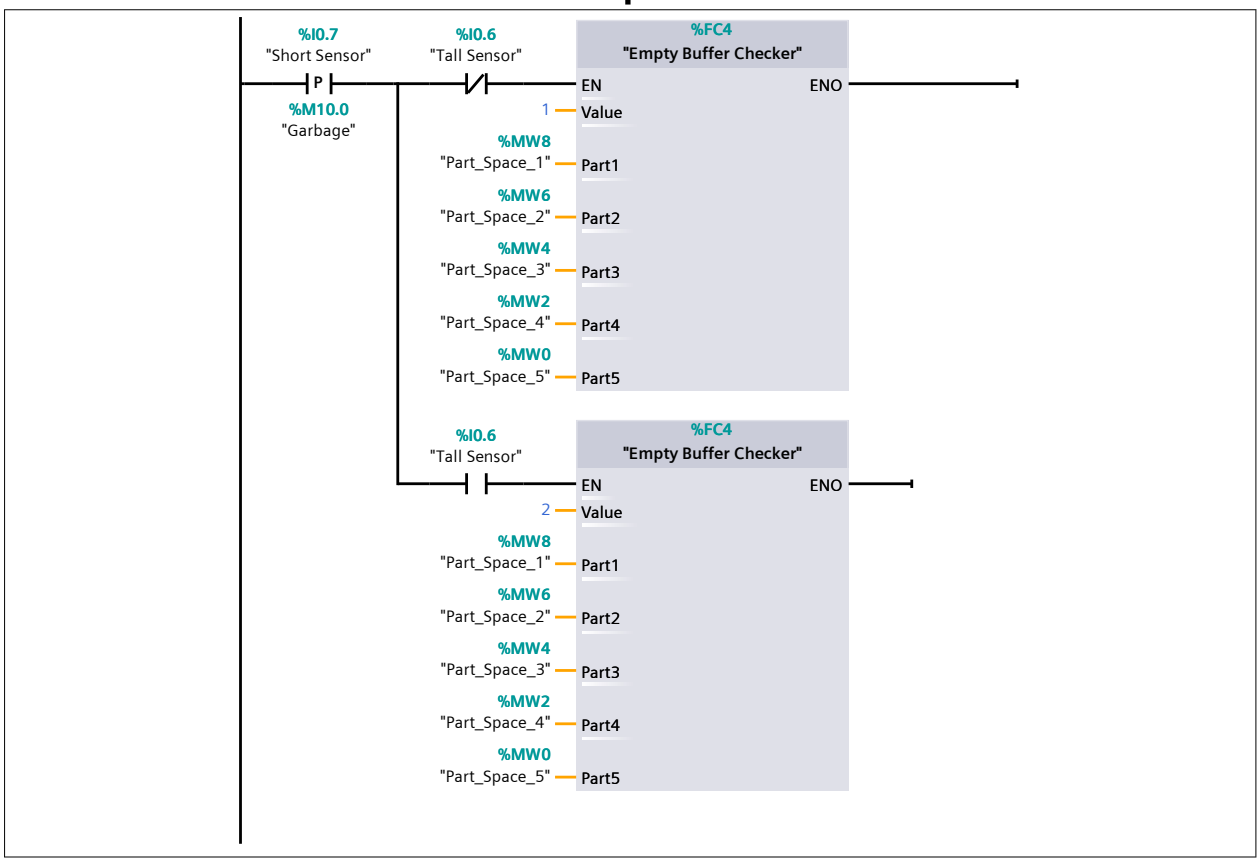
Owner	Projectname TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 22

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

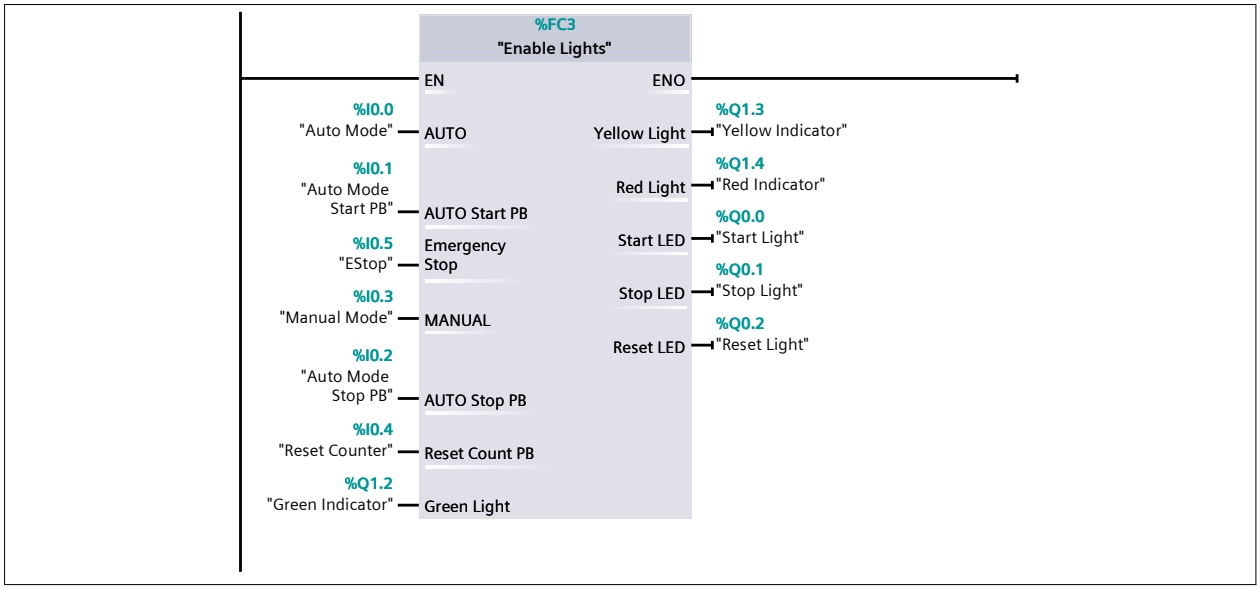


Network 4: Height Sensors

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 23

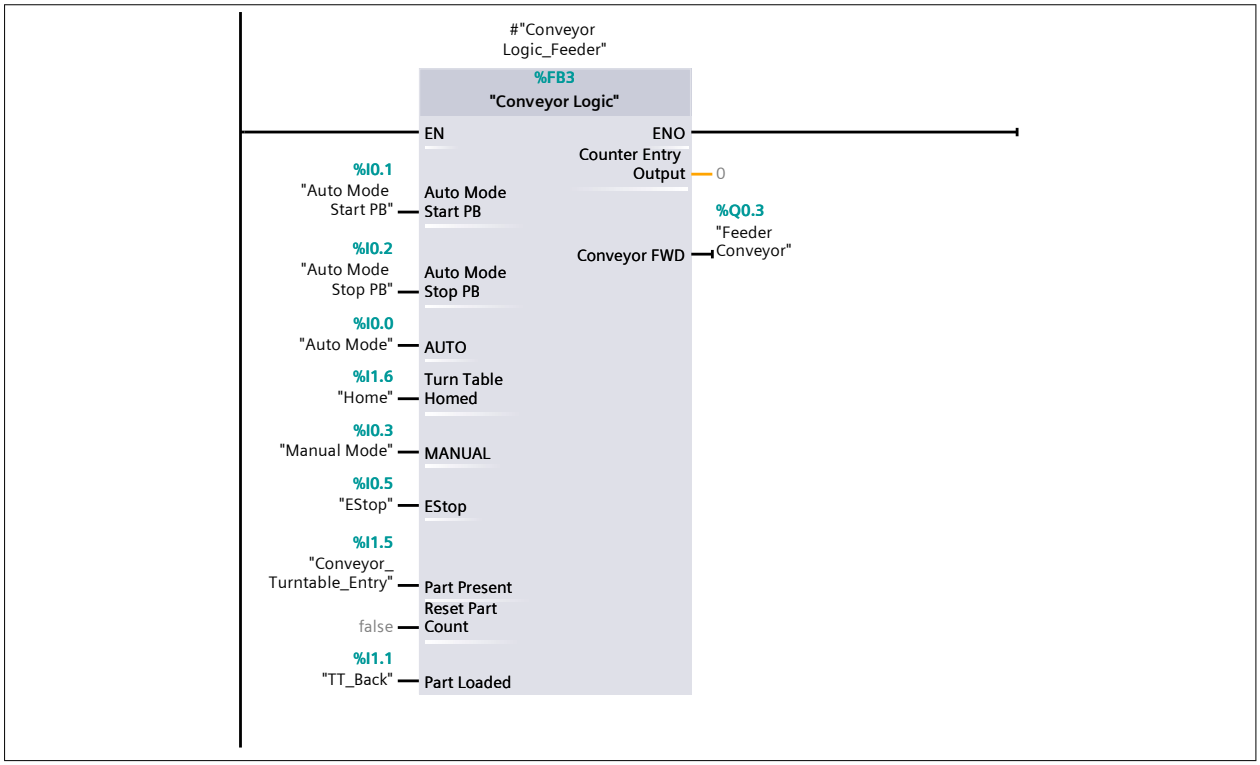


Network 5: Call Lights Function



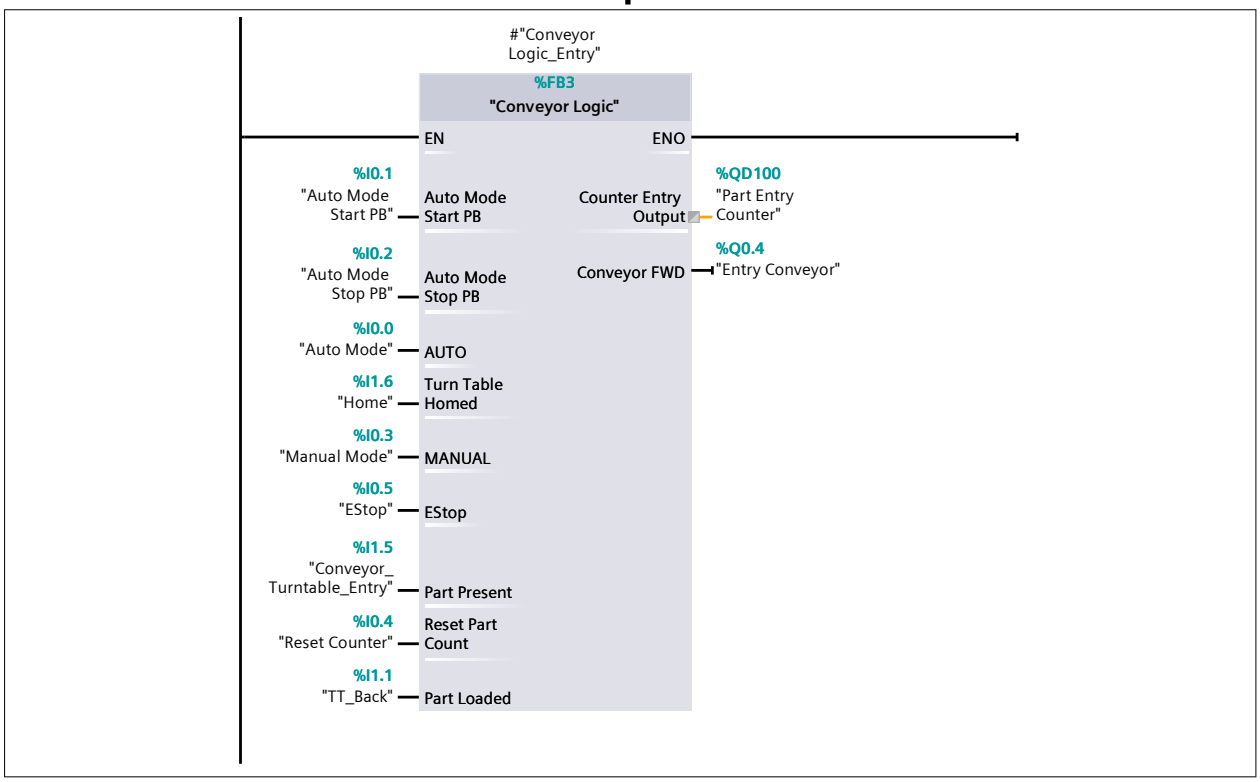
Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 24

Network 6: Call Feeder Conveyor Logic



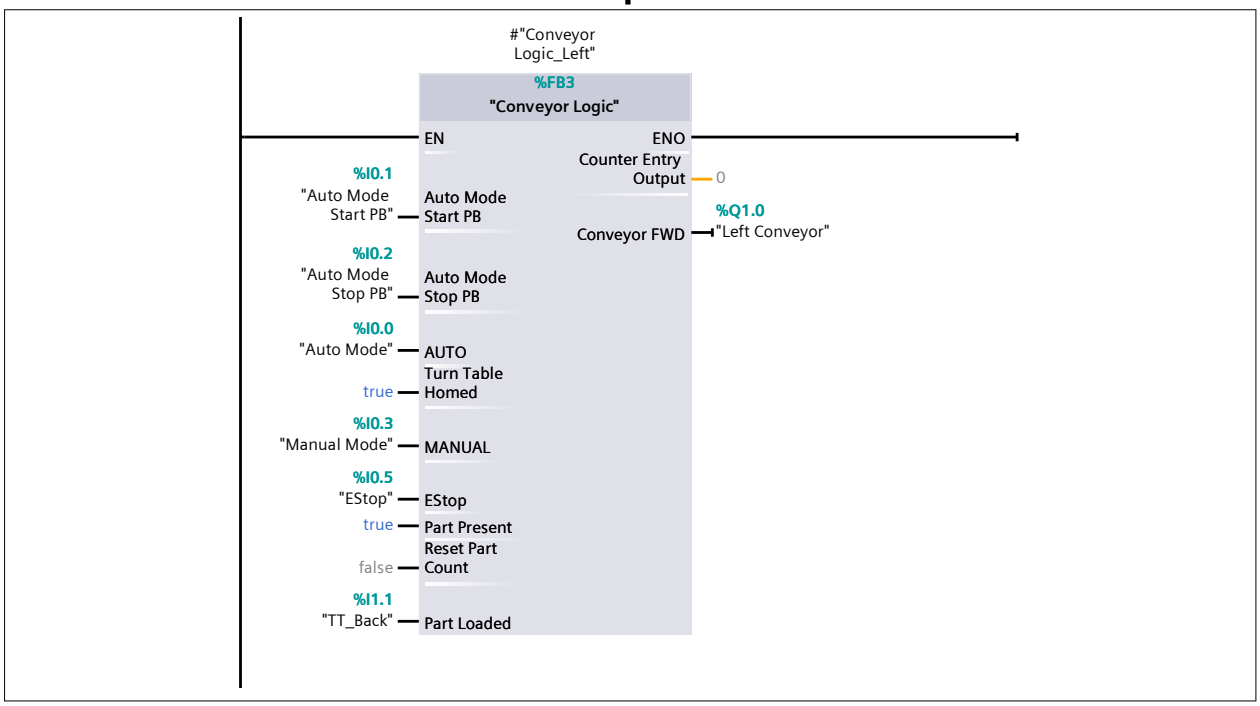
Network 7: Call Entry Conveyor Logic

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 25

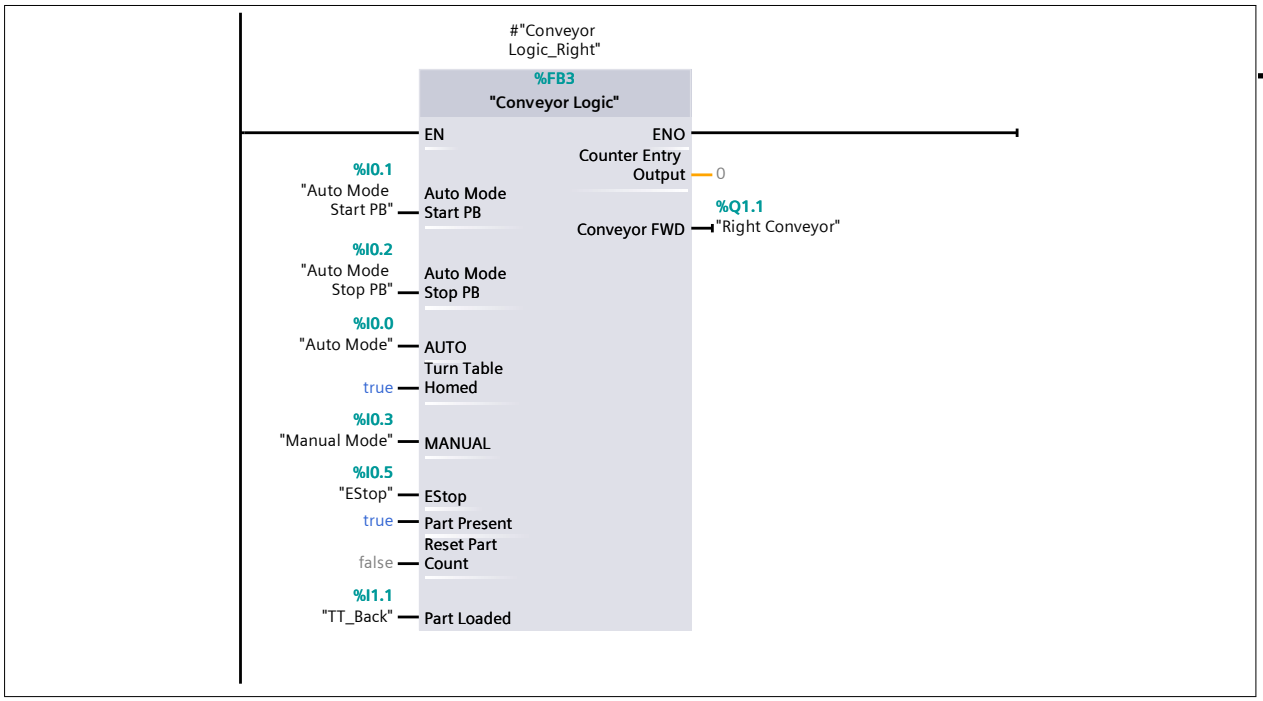


Network 8: Call Conveyor Left Logic

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 26

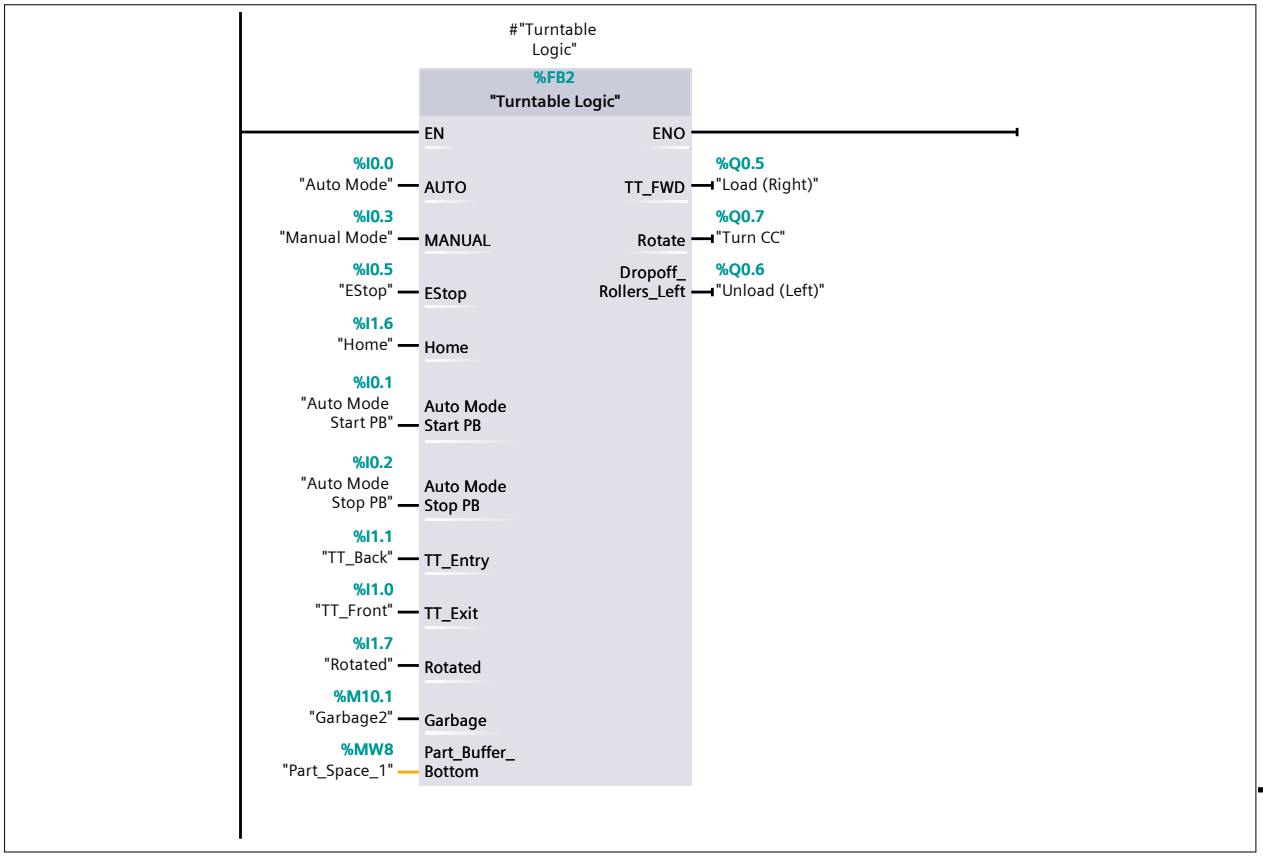


Network 9: Call Conveyor Right Logic



Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 27

Network 10: Call Turntable Logic



Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 28

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**	
▼ /			
Name	Conveyor Logic_Feeder	**Data type**	"Conveyor Logic"
Start value		**Retain**	False

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

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
//			
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	Auto Mode Start PB	**Data type**	Bool
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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

Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
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	Counter Entry Output	**Data type**	Int
Start value	0	**Retain**	False
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
Start value	false	**Retain**	False
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**	
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**	
Name	Conveyor Started	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Part Entry Counter	**Data type**	CTU_INT
Start value		**Retain**	True
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CU	**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	CD	**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	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	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	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
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
Start value	0	**Retain**	True
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
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ /			
Name	Turntable Logic	**Data type**	"Turntable Logic"
Start value		**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
Name	Input	**Data type**	

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

Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	AUTO	**Data type**	Bool
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Home	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	TT_Entry	**Data type**	Bool

Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	TT_Exit	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Rotated	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
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	TT_FWD	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Rotate	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Dropoff_Rollers_Left	**Data type**	Bool
Start value	false	**Retain**	False
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**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Garbage	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Part_Buffer_Bottom	**Data type**	Int
Start value	0	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
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**	
Name	Elapsed TIme	**Data type**	DInt
Start value	0	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Stopped	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
///			
Name	Turn Table Timers	**Data type**	TP_TIME
Start value		**Retain**	False

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	PT	**Data type**	Time
Start value	T#0ms	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	ET	**Data type**	Time
Start value	T#0ms	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	IN	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Q	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Load Table	**Data type**	Bool
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Rotation Ready	**Data type**	Bool
Start value	false	**Retain**	False

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ /			
Name	Conveyor Logic_Entry	**Data type**	"Conveyor Logic"
Start value		**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
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	Auto Mode Start PB	**Data type**	Bool
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
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	Counter Entry Output	**Data type**	Int
Start value	0	**Retain**	False
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
Start value	false	**Retain**	False
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**	
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**	
Name	Conveyor Started	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Part Entry Counter	**Data type**	CTU_INT
Start value		**Retain**	True
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
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	CD	**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	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	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	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
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
Start value	0	**Retain**	True
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
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	

Name	Conveyor Logic_Left	**Data type**	"Conveyor Logic"
Start value		**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
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	Auto Mode Start PB	**Data type**	Bool
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
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	Counter Entry Output	**Data type**	Int
Start value	0	**Retain**	False
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
Start value	false	**Retain**	False
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**	
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**	
Name	Conveyor Started	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Part Entry Counter	**Data type**	CTU_INT
Start value		**Retain**	True
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
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	CD	**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	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	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	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
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
Start value	0	**Retain**	True
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
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	

▼ /

Name	Conveyor Logic_Right	**Data type**	"Conveyor Logic"
Start value		**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	

//			
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	Auto Mode Start PB	**Data type**	Bool
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
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
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
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	Counter Entry Output	**Data type**	Int
Start value	0	**Retain**	False
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
Start value	false	**Retain**	False
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**	
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**	
Name	Conveyor Started	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Part Entry Counter	**Data type**	CTU_INT
Start value		**Retain**	True
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
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	CD	**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	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	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	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
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
Start value	0	**Retain**	True
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
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	

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**	

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

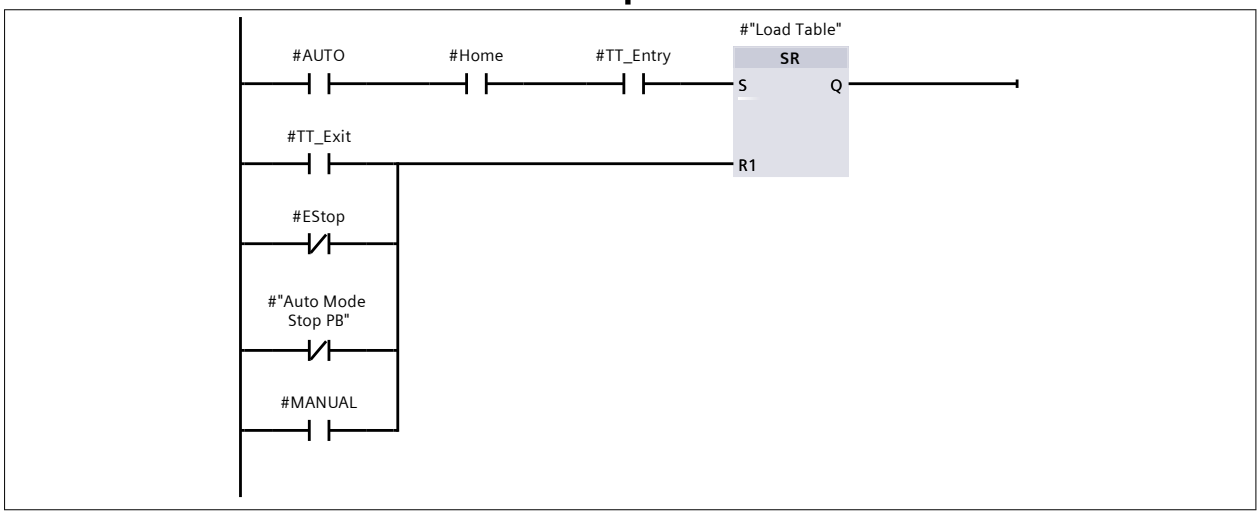
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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	TT_Entry	**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	TT_Exit	**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	Rotated	**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	Output	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	TT_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	Rotate	**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	Dropoff_Rollers_Left	**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**	
Supervision		**Comment**	
Name	Garbage	**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	Part_Buffer_Bottom	**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
Supervision		**Comment**	
▼			
Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	

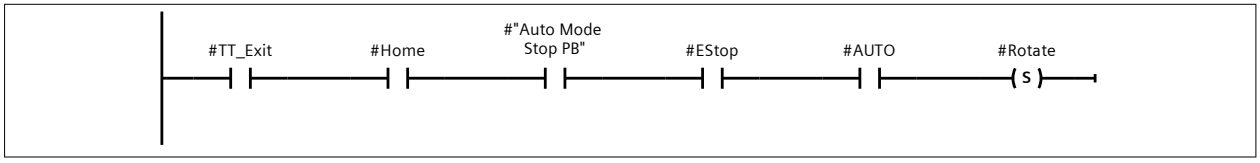
Supervision		**Comment**	
Name	Elapsed TIme	**Data type**	DInt
Default value	0	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Stopped	**Data type**	Bool
Default value	false	**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 Timers	**Data type**	TP_TIME
Default value		**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	PT	**Data type**	Time
Default value	T#0ms	**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	ET	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	IN	**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	Q	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Load Table	**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	Dropoff_Rollers_Right	**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	Rotation Ready	**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	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: Enable FWD Loading Rollers on Turn Tables



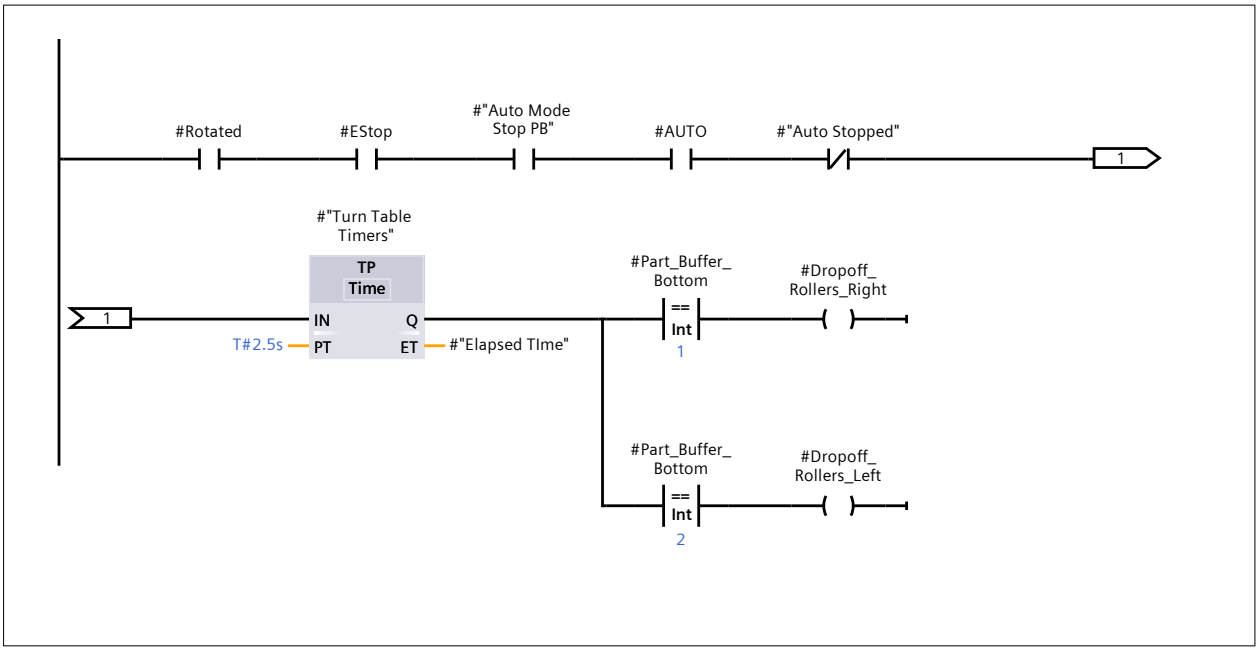
Network 2: Rotate Turn Table When Part Hits Exit Sensor



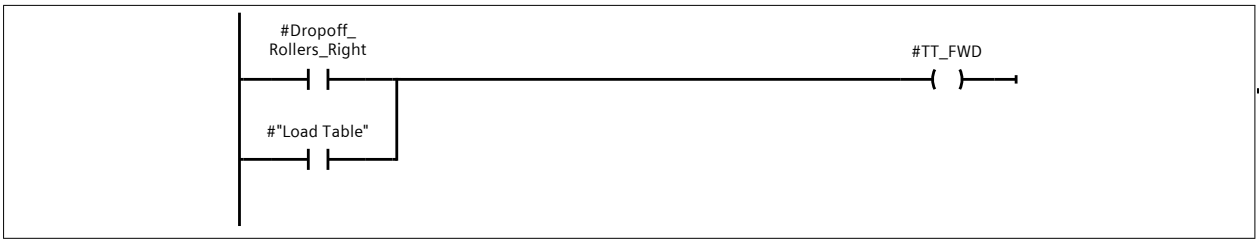
Network 3: Remove Part From Turn Table

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

Network 3: Remove Part From Turn Table

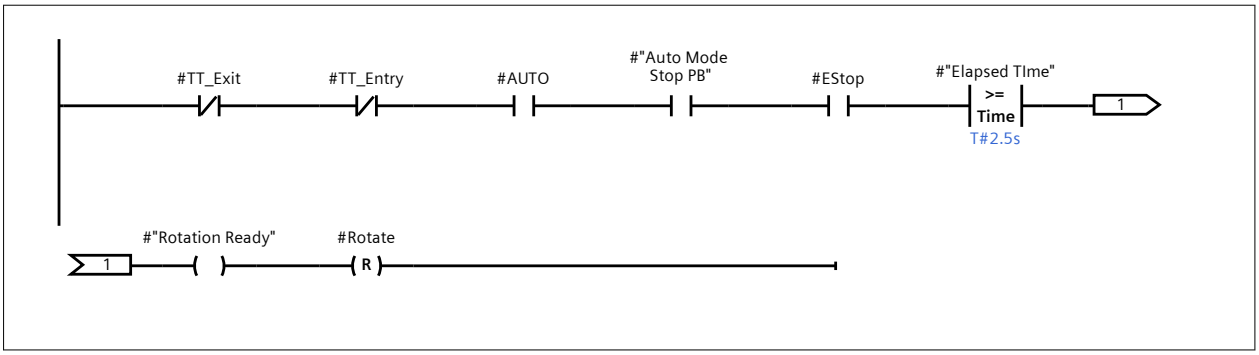


Network 4: Assign Forward Table Movement



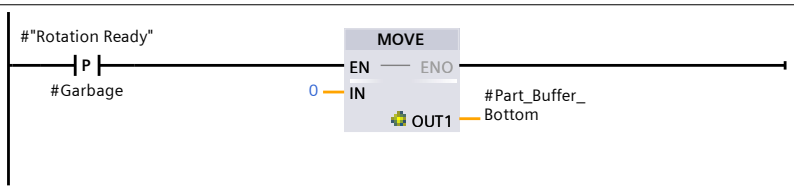
Network 5: Allow Rotation after Removed Part

Network 5: Allow Rotation after Removed Part

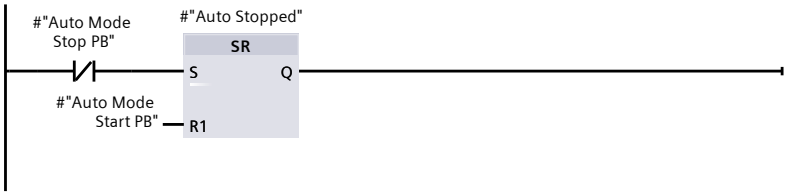


Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 6 - 7

Network 6: Empty Used Buffer Slot



Network 7: Auto Stop Push Button Stopping Functionality



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

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

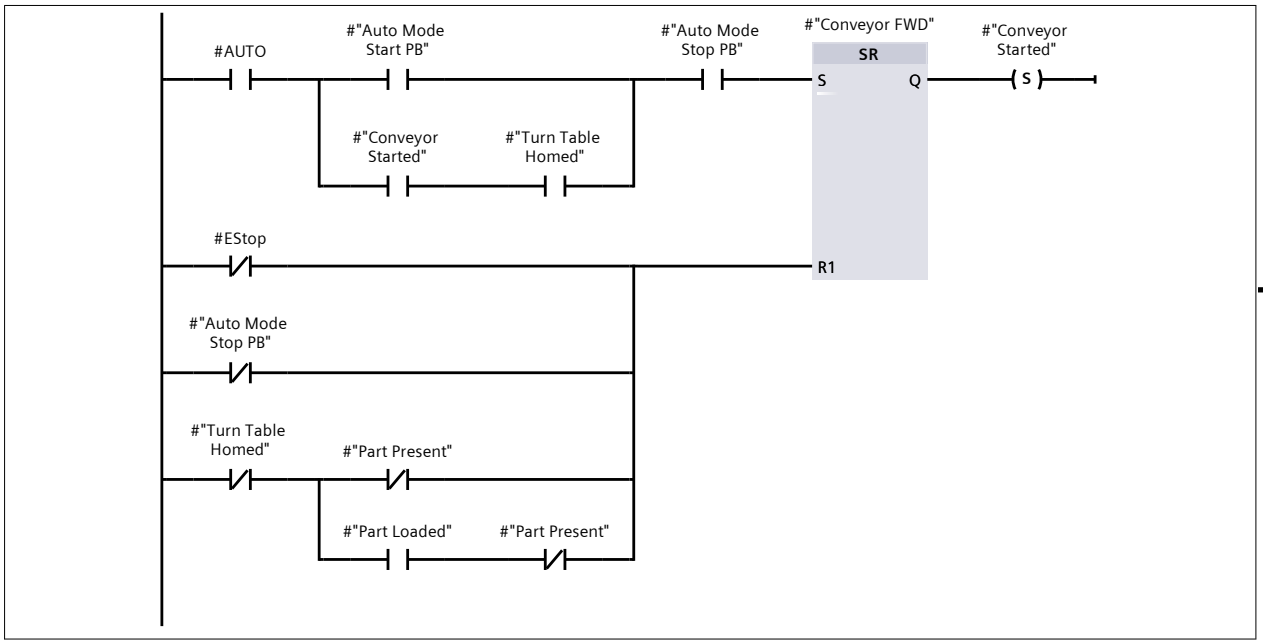
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	MANUAL	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop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

Supervision		**Comment**	
Name	CD	**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
Supervision		**Comment**	
Name	R	**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
Supervision		**Comment**	
Name	LD	**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
Supervision		**Comment**	
Name	QU	**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
Supervision		**Comment**	
Name	QD	**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
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
Default value	0	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False

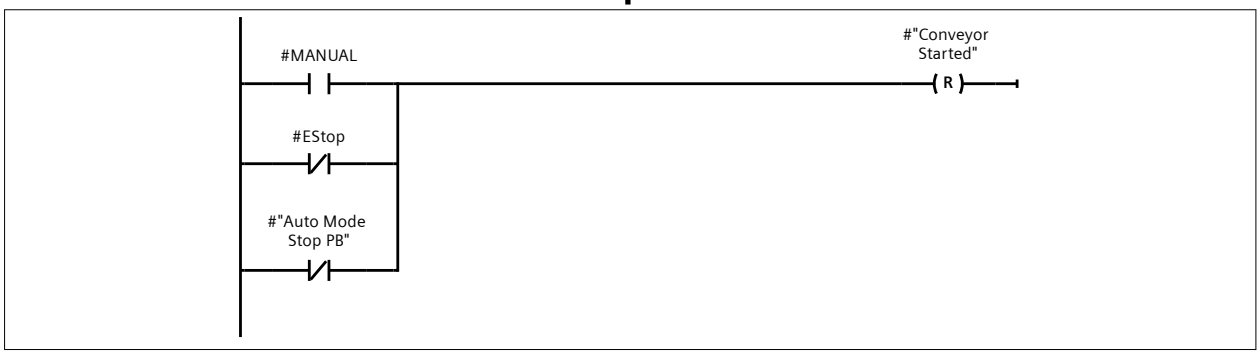
Supervision		**Comment**	
Name	Temp	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Constant	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from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

Network 1: Conveyor Auto Mode

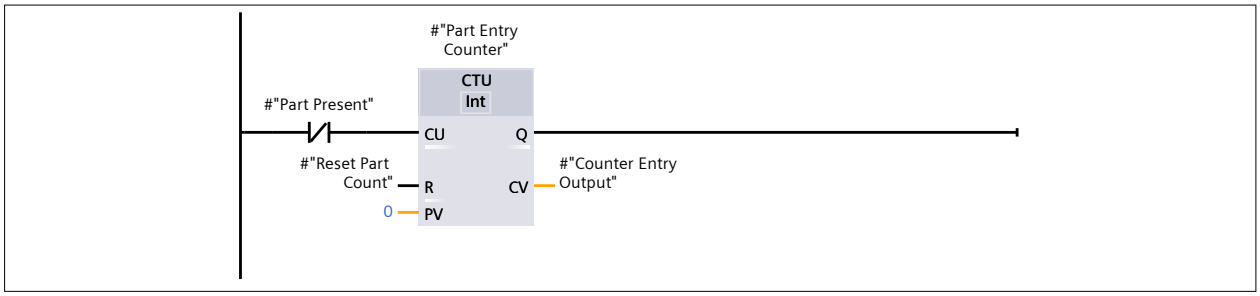


Network 2: Reset the Conveyor Started Condition

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



Network 3: Part Entry Counter with Reset



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

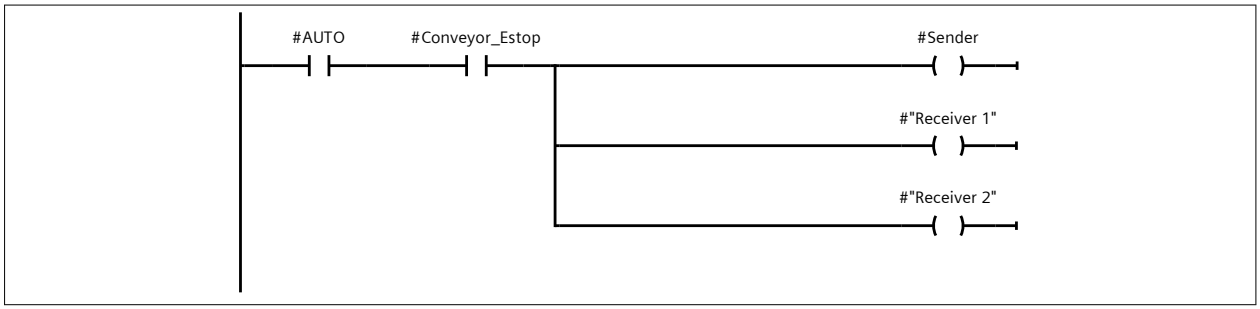
PLC_1 [CPU 1516-3 PN/DP] / Program blocks

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

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

Part Buffer Movement [FC2]

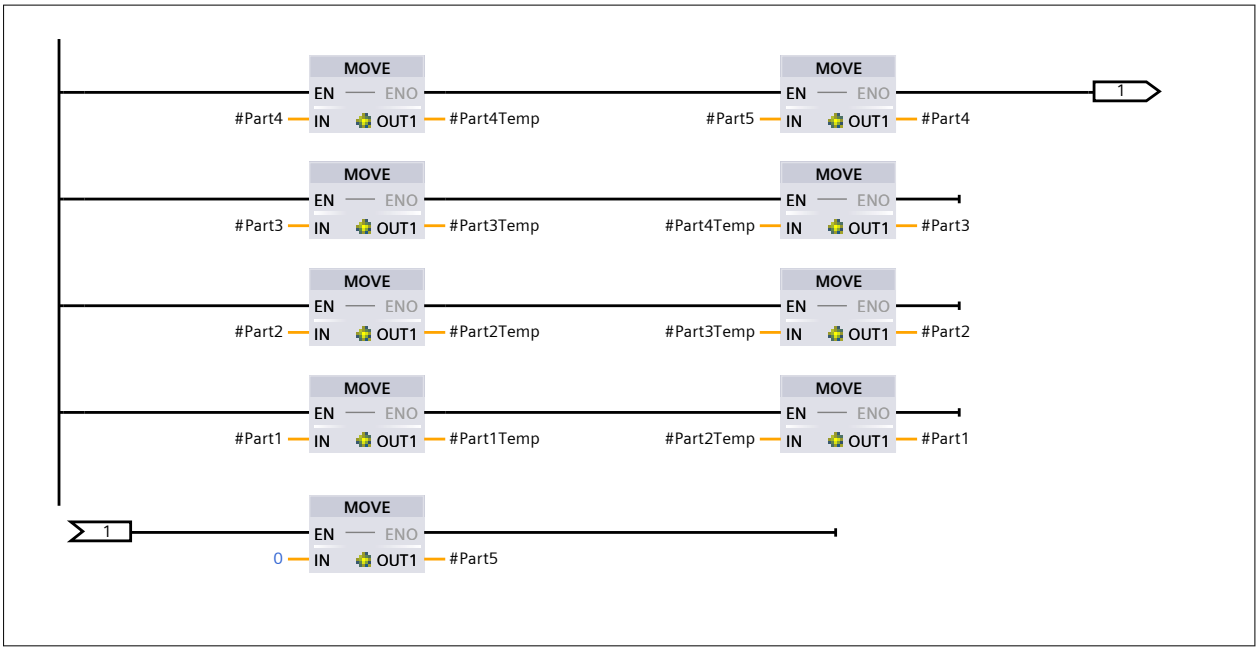
Part Buffer Movement Properties			
General			
Name	Part Buffer Movement	**Number**	2
Type	FC	**Language**	LAD
Numbering	Automatic		
Information			
Title		**Author**	
Comment		**Family**	
Version	0.1	**User-defined ID**	

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

Network 1: Shift Part Buffer



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

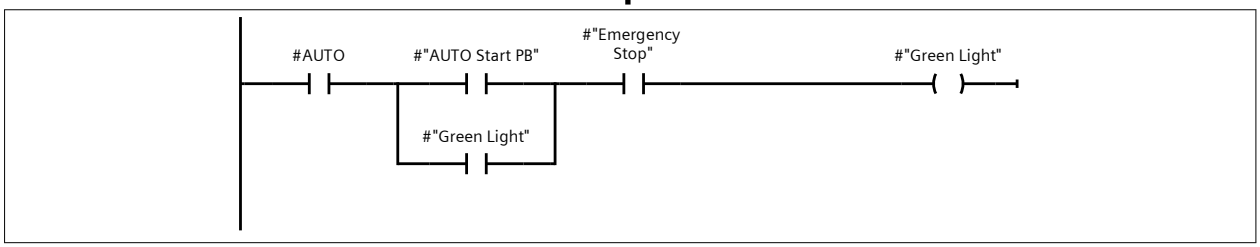
PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Enable Lights [FC3]

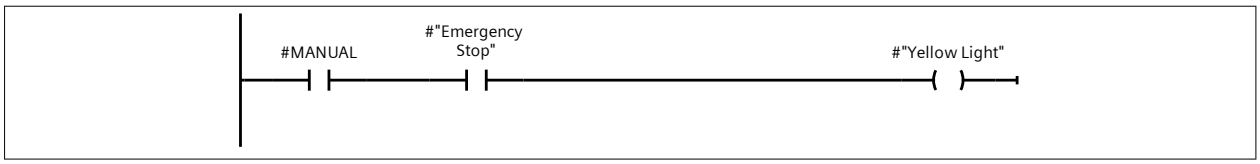
Enable Lights Properties			
General			
Name	Enable Lights	**Number**	3
Type	FC	**Language**	LAD
Numbering	Automatic		
Information			
Title		**Author**	
Comment		**Family**	
Version	0.1	**User-defined ID**	

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		

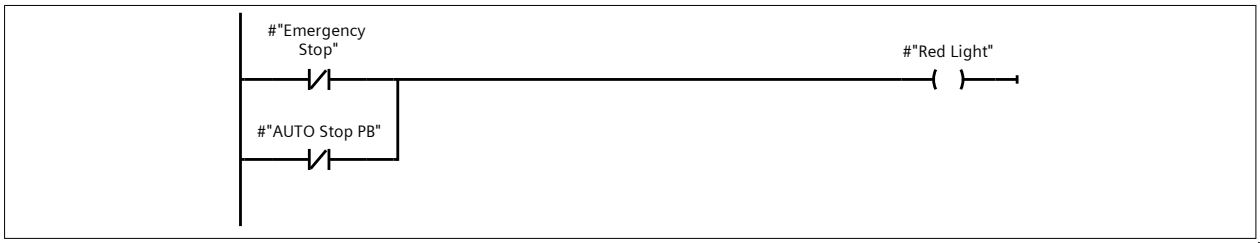
Network 1: Enable Green Light (Auto)



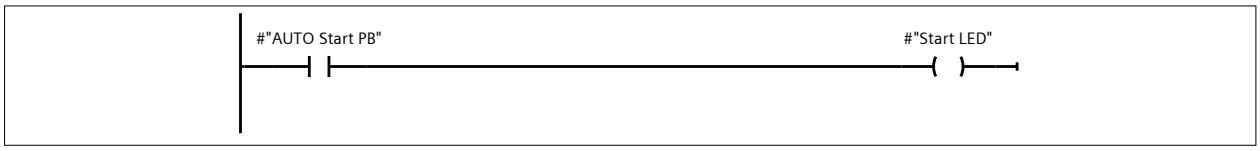
Network 2: Enable Yellow Light (Manual)



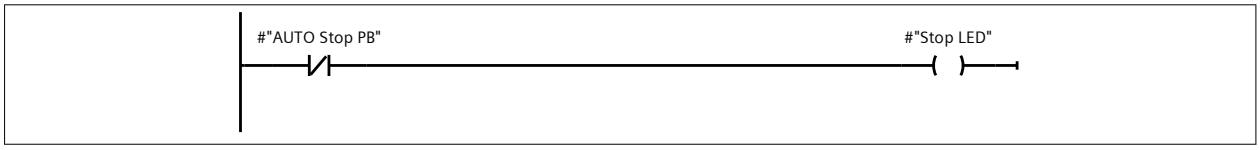
Network 3: Enable Red Light (Stopped)



Network 4: Control Panel Start Light

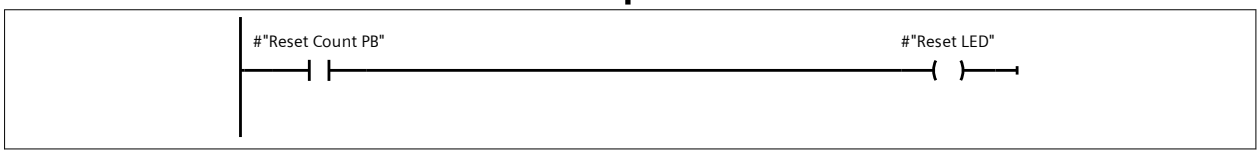


Network 5: Stop Push Button Light



Network 6: Reset Push Button Light

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



Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 10 - 3

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

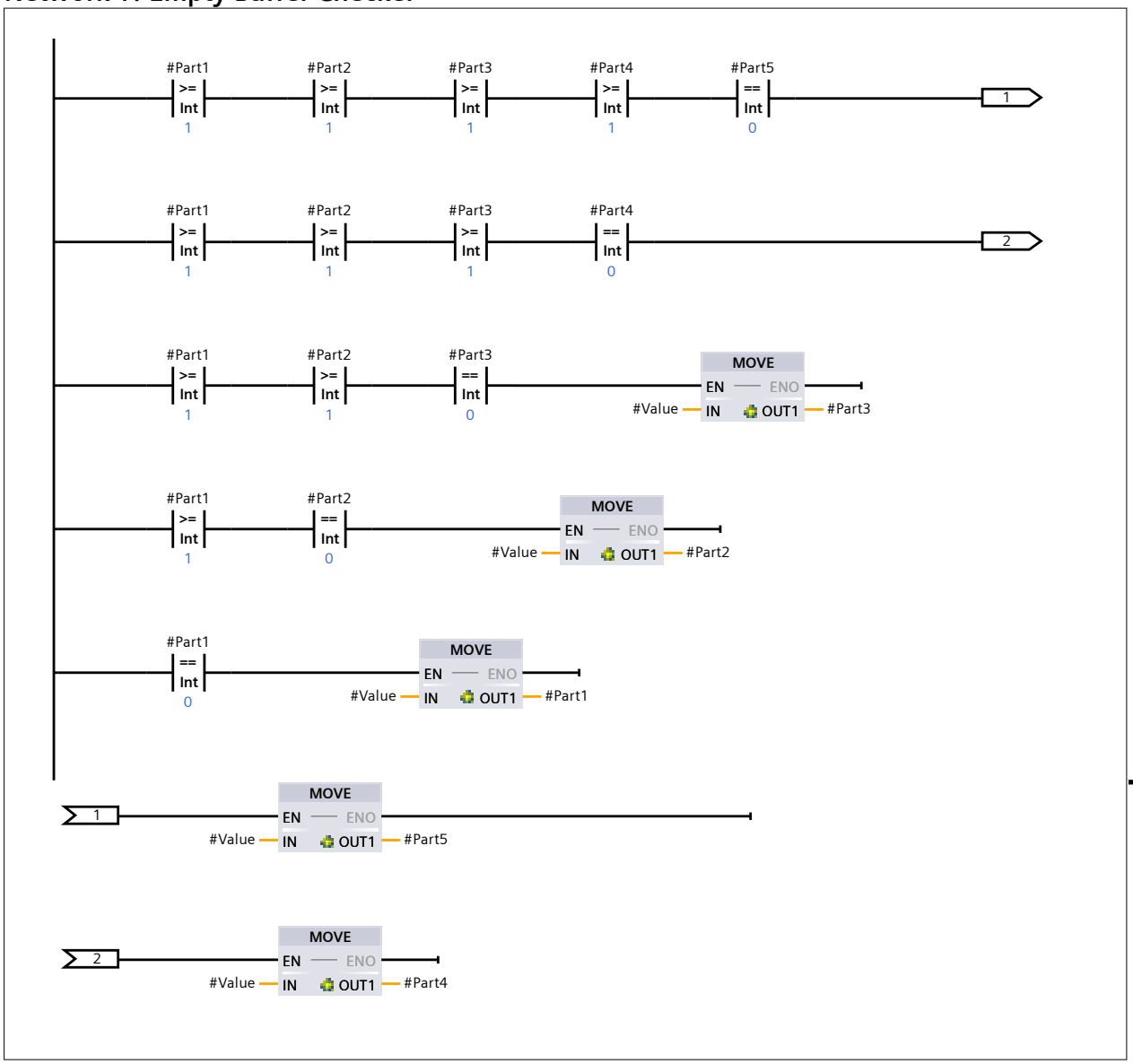
Empty Buffer Checker [FC4]

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

Network 1: Empty Buffer Checker



Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 11 - 2

PLC_1 [CPU 1516-3 PN/DP]

Technology objects

This folder is empty.

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	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

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

User constants

User constants				
	Name	Data type	Value	Comment

Owner	Project name TrainingModules2	Date 6/21/2023	
Operator	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	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	Retain	Accessible from HMI/ OPC UA	Writable from HMI/ OPC UA	Visible in HMI engineering	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

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

User constants

User constants				
	Name	Data type	Value	Comment

Owner	Project name TrainingModules2	Date 6/21/2023	
Operator	Project path C:\Users\IIruoha\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	Retain	Accessible from HMI/ OPC UA	Writable from HMI/ OPC UA	Visible in HMI engineering	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_Loader_Entry	Bool	%I1.2	False	True	True	True		Entering the Main Conveyor
	Conveyor_Left_Entry	Bool	%I1.3	False	True	True	True		Left Conveyor Entry Sensor
	Conveyor_Right_Entry	Bool	%I1.4	False	True	True	True		Right Conveyor Entry Sensor
	Conveyor_Turntable_Entry	Bool	%I1.5	False	True	True	True		Entering the Turntable
	Feeder Conveyor	Bool	%Q0.3	False	True	True	True		Feeder Conveyor Actuator
	Entry Conveyor	Bool	%Q0.4	False	True	True	True		Entry Conveyor Actuator
	Left Conveyor	Bool	%Q1.0	False	True	True	True		Left Conveyor Actuator
	Right Conveyor	Bool	%Q1.1	False	True	True	True		Right Conveyor Actuator
	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

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

User constants

User constants				
	Name	Data type	Value	Comment

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

PLC tags

PLC tags

	Name	Data type	Address	Retain	Accessible from HMI/ OPC UA	Writable from HMI/ OPC UA	Visible in HMI engineering	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

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\IIruoha\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	Retain	Accessible from HMI/ OPC UA	Writable from HMI/ OPC UA	Visible in HMI engineering	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

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\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 22 - 1

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

System data types

This folder is empty.

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	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	

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

Force table

Name	Address	Display format	Force value	Comment

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

PLC_1 [CPU 1516-3 PN/DP]

Traces

Name

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 26 - 1

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

Measurements

This folder is empty.

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 27 - 1

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

Combined measurements

Name

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 28 - 1

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

Server interfaces

This folder is empty.

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 29 - 1

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

Client interfaces

This folder is empty.

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 30 - 1

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

PLC supervisions

This folder is empty.

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 31 - 1

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

PLC alarms

PLC alarms
No entries

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

Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_RACK_MSG_0004
Type	PLC alarm
ID	3
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_DEVICE_MSG_0005
Type	PLC alarm
ID	4
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False

Created by	System diagnostics
Date created	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_IOSYSTEM_MSG_0006
Type	PLC alarm
ID	5
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_OST_MSG_000D
Type	PLC alarm
ID	6
Location	PLC_1
Alarm text	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False

Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_INFO_MSG_000F
Type	PLC alarm
ID	7
Location	PLC_1
Alarm text	CPU info: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_ERR_MSG_0010
Type	PLC alarm
ID	8
Location	PLC_1
Alarm text	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@

Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_MD_MSG_0011
Type	PLC alarm
ID	9
Location	PLC_1
Alarm text	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W %t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W %t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_MR_MSG1_0012
Type	PLC alarm

ID	10
Location	PLC_1
Alarm text	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W %t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W %t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_TMPERR_MSG_0013
Type	PLC alarm
ID	11
Location	PLC_1
Alarm text	Temporary CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_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
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ECH_ERR_MSG_0016
Type	PLC alarm
ID	13
Location	PLC_1
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CH_MD_MSG_0018
Type	PLC alarm
ID	14
Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_ECH_MD_MSG_0019
Type	PLC alarm
ID	15
Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W %t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W %t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CH_MR_MSG_001B
Type	PLC alarm
ID	16
Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_ECH_MR_MSG_001C
Type	PLC alarm
ID	17
Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False

Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_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
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
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_SUB_MD_MSG_0021
Type	PLC alarm
ID	20
Location	PLC_1
Alarm text	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_ESUB_MD_MSG_0022
Type	PLC alarm
ID	21

Location	PLC_1
Alarm text	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_SUB_MR_MSG_0024
Type	PLC alarm
ID	22
Location	PLC_1
Alarm text	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_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	
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	

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	

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

Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_PLC_MSG_00FF
Type	PLC alarm
ID	29
Location	PLC_1
Alarm text	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W %t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	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_SUBMODUL_MSG_0102
Type	PLC alarm
ID	30
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics

Date created	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_0103
Type	PLC alarm
ID	31
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_RACK_MSG_0104
Type	PLC alarm
ID	32
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False

Priority	0
Report	False
Created by	System diagnostics
Date created	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_DEVICE_MSG_0105
Type	PLC alarm
ID	33
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_IOSYSTEM_MSG_0106
Type	PLC alarm
ID	34
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@

Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_OST_MSG_010D
Type	PLC alarm
ID	35
Location	PLC_1
Alarm text	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_ERR_MSG_0110
Type	PLC alarm
ID	36
Location	PLC_1

Alarm text	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CPU_MD_MSG_0111
Type	PLC alarm
ID	37
Location	PLC_1
Alarm text	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W %t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W %t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_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	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CH_ERR_MSG_0115
Type	PLC alarm
ID	39
Location	PLC_1
Alarm text	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_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
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

Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ECH_MD_MSG_0119
Type	PLC alarm
ID	42
Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W %t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W %t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CH_MR_MSG_011B
Type	PLC alarm
ID	43
Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0

Report	False
Created by	System diagnostics
Date created	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_ECH_MR_MSG_011C
Type	PLC alarm
ID	44
Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_SUB_ERR_MSG_011E
Type	PLC alarm
ID	45
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@

Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_ESUB_ERR_MSG_011F
Type	PLC alarm
ID	46
Location	PLC_1
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_SUB_MD_MSG_0121
Type	PLC alarm
ID	47
Location	PLC_1

Alarm text	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_ESUB_MD_MSG_0122
Type	PLC alarm
ID	48
Location	PLC_1
Alarm text	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_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	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ESUB_MR_MSG_0125
Type	PLC alarm
ID	50
Location	PLC_1
Alarm text	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_CONFIG_INFO_0128
Type	PLC alarm
ID	51
Location	PLC_1
Alarm text	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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_PLC_MSG_01FF
Type	PLC alarm
ID	52
Location	PLC_1
Alarm text	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W %t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	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	

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 33 - 29

PLC_1 [CPU 1516-3 PN/DP]

PLC alarm text lists

This folder is empty.

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 34 - 1

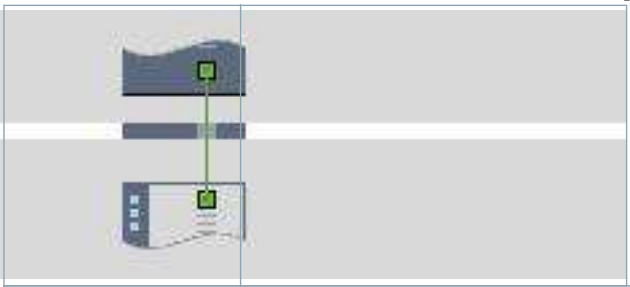
PLC_1 [CPU 1516-3 PN/DP] / Local modules

PLC_1 [CPU 1516-3 PN/DP]

PLC_1			
General\Project information			
Name	PLC_1	**Author**	IIruoha
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**	IIruoha
Comment			
PROFINET interface [X1]\Ethernet addresses\Interface networked with			
Subnet:	Not connected		

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 35 - 1

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**	IIruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	**Medium:**	Copper
Cable name:	---		



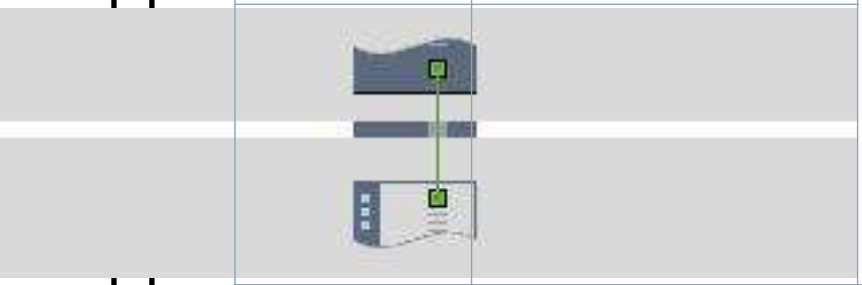
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\General			
Name	Port_2	**Author**	IIruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_2 [X1 P2 R]	**Medium:**	Copper
Cable name:	---		

PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate			
Activate this port for use	True		

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 35 - 3

PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X1]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	**Enable Web server using this interface**	False
PROFINET interface [X2]\General			
Name	PROFINET interface_2	**Author**	IIruoha
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			
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

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**	Iruoha
Comment			
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_2 [X2]\Port_1 [X2 P1]	**Medium:**	Copper
Cable name:	---		



PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X2]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	**Enable Web server using this interface**	False
DP interface [X3]\General			
Name	DP interface_1	**Author**	Iruoha
Comment			
DP interface [X3]\PROFIBUS address\Interface networked with			
Subnet:	Not networked		

DP interface [X3]\PROFIBUS address\Parameters			
Address:	2	**Highest address:**	
Transmission speed:			
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

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	

Startup			
Startup after POWER ON	Warm restart - Operating mode before POWER OFF	**Comparison preset to actual configuration**	Startup CPU even if mismatch
Configuration time	60000ms		
Cycle			
Maximum cycle time	150ms		
Enable minimum cycle time for cyclic OBs	True	**Minimum cycle time**	1ms
Communication load			
Cycle load due to communication	50%		
System and clock memory\System memory bits			
Enable the use of system memory byte	False	**Address of system memory byte (MBx)**	1
First cycle		**Diagnostic status changed**	
Always 1 (high)		**Always 0 (low)**	
System and clock memory\Clock memory bits			
Enable the use of clock memory byte	False	**Address of clock memory byte (MBx)**	0
10 Hz clock		**5 Hz clock**	
2.5 Hz clock		**2 Hz clock**	
1.25 Hz clock		**1 Hz clock**	
0.625 Hz clock		**0.5 Hz clock**	
SIMATIC Memory Card\Diagnostics			
Aging of the SIMATIC memory card	False	**Threshold value**	80%

System diagnostics\General			
Activate system diagnostics for this device	True	**Report network faults as maintenance instead of fault**	False
PLC alarms\General			
Central alarm management in the PLC	True		
Web server\General			
Activate web server on this module	False	**Permit access only with HTTPS**	True
Web server\Automatic update			
Enable automatic update	True	**Update interval**	0s

Web server\User management

User name	User rights
Everybody	

Web server\User-defined web pages

Application name	HTML source path	Default HTML page	Files with dynamic content	Web DB number	Fragment DB number
		index.htm	.htm;.html	333	334

Web server\Overview of interfaces

Device	Interface	Enabled web server access
PLC_1	PROFINET interface_1	False
PLC_1	PROFINET interface_2	False

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		
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**	---

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 35 - 7

User interface languages	
Assign project language	**User interface languages**
English (United States)	German
English (United States)	English
English (United States)	French
English (United States)	Spanish
English (United States)	Italian
English (United States)	Japanese
English (United States)	Chinese (simplified)
English (United States)	Korean
English (United States)	Russian
English (United States)	Turkish
English (United States)	Portuguese (Brazil)

Time of day\Local time			
Time zone	(UTC) Dublin, Edinburgh, Lisbon, London		

Time of day\Daylight saving time			
Activate daylight saving time	True	**Difference between standard and day-light saving time**	60mins

Time of day\Daylight saving time\Start of daylight saving time			
Selection of the week	Last	**Selection of the weekday**	Sunday
of	March	**at**	01:00 a.m.

Time of day\Daylight saving time\Start of standard time			
Selection of the week	Last	**Selection of the weekday**	Sunday
of	October	**at**	02:00 a.m.

Protection	
Level of protection	Full access (no protection)

Protection\Connection mechanisms	
Permit access with PUT/GET communi-cation from remote partner	True

Protection\Security event			
Summarize security events in case of high message vol-ume	True	**Length of an inter-val**	20
Unit	seconds		

OPC UA\Accessibility of the server	
Activate OPC UA server	False

OPC UA\Accessibility of the client	
Activate OPC UA cli-ent	False

System power supply\General	
General	Connection to supply voltage L+

Owner	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 35 - 8

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

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	Project name TrainingModules2		Date 6/21/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules2		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 35 - 9