

Totally Integrated Automation Portal																																										
<div>PLC_1 [CPU 1214C DC/DC/DC]</div> <div><div>PLC_1</div><div><div>Project information</div><table><tr><td>Name</td><td>PLC_1</td><td>Author</td><td>Mali</td></tr><tr><td>Comment</td><td></td><td>Slot</td><td>1</td></tr><tr><td>Rack</td><td>0</td><td></td><td></td></tr></table><div><div>Catalog information</div><table><tr><td>Short designation</td><td>CPU 1214C DC/DC/DC</td><td>Description</td><td>Work memory 75 KB; 24VDC power supply with DI14 x 24VDC SINK/ SOURCE, DQ10 x 24VDC and AI2 on board; 6 high-speed counters and 4 pulse outputs on board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 8 signal modules for I/O expansion; 0.04 ms/1000 instructions; PROFINET interface for programming, HMI and PLC-to-PLC communication</td></tr><tr><td>Article number</td><td>6ES7 214-1AG40-0XB0</td><td>Firmware version</td><td>V4.0</td></tr></table><div><div>Connection resources</div><table><tr><td>PG communication:</td><td>1</td><td>OP communication:</td><td>1</td></tr><tr><td>S7 basic communication:</td><td>0</td><td>S7 communication:</td><td>0</td></tr><tr><td>Maximum number of S7 connection resources:</td><td>38</td><td></td><td></td></tr></table><div><div>Overview of addresses\Overview of addresses\Overview of addresses</div><table><tr><td>Inputs</td><td>True</td><td>Outputs</td><td>True</td></tr><tr><td>Address gaps</td><td>False</td><td>Slot</td><td>True</td></tr></table></div></div></div></div></div>			Name	PLC_1	Author	Mali	Comment		Slot	1	Rack	0			Short designation	CPU 1214C DC/DC/DC	Description	Work memory 75 KB; 24VDC power supply with DI14 x 24VDC SINK/ SOURCE, DQ10 x 24VDC and AI2 on board; 6 high-speed counters and 4 pulse outputs on board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 8 signal modules for I/O expansion; 0.04 ms/1000 instructions; PROFINET interface for programming, HMI and PLC-to-PLC communication	Article number	6ES7 214-1AG40-0XB0	Firmware version	V4.0	PG communication:	1	OP communication:	1	S7 basic communication:	0	S7 communication:	0	Maximum number of S7 connection resources:	38			Inputs	True	Outputs	True	Address gaps	False	Slot	True
Name	PLC_1	Author	Mali																																							
Comment		Slot	1																																							
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PG communication:	1	OP communication:	1																																							
S7 basic communication:	0	S7 communication:	0																																							
Maximum number of S7 connection resources:	38																																									
Inputs	True	Outputs	True																																							
Address gaps	False	Slot	True																																							

Totally Integrated Automation Portal										
Type	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO system	Rack	Slot
I	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 1
O	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 1
I	64	67	AI 2_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 2
I	1000	1003	HSC_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 16
I	1004	1007	HSC_2	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 17
I	1008	1011	HSC_3	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 18
I	1012	1015	HSC_4	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 19
I	1016	1019	HSC_5	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 20
I	1020	1023	HSC_6	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 21
O	1000	1001	Pulse_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 32
O	1002	1003	Pulse_2	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 33
O	1004	1005	Pulse_3	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 34
O	1006	1007	Pulse_4	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 35
I	68	131	DI 64 bytes_1	Automatic update	RobotBasicIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	1
O	132	195	DO 64 bytes_1	Automatic update	RobotBasicIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	2

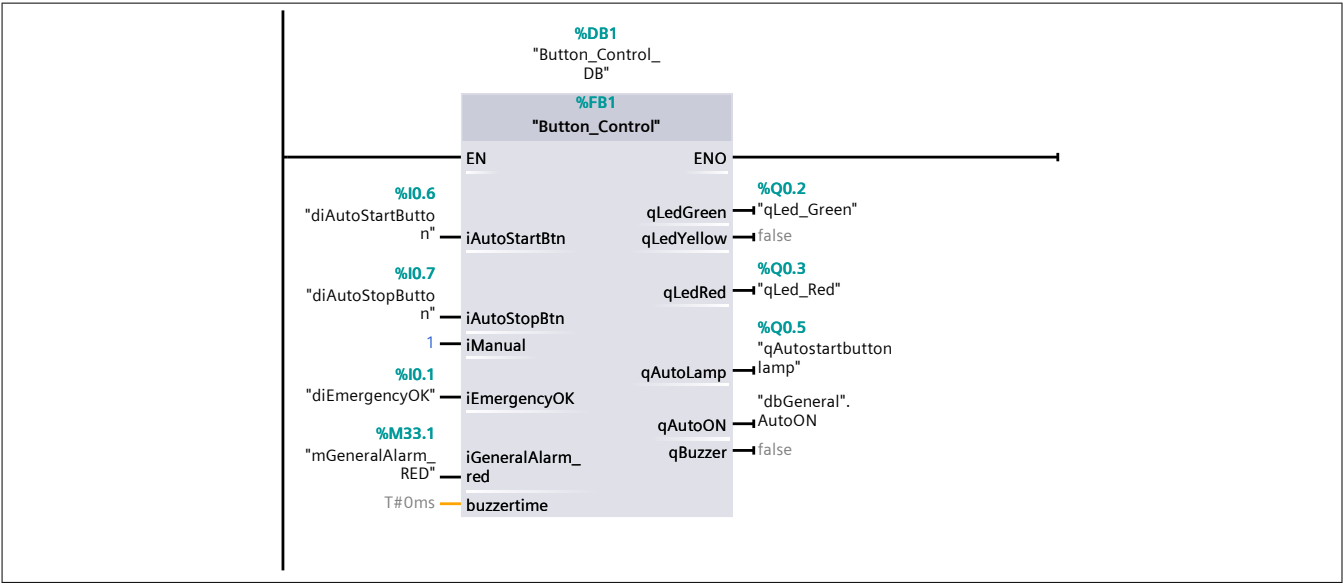
PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

Main [OB1]

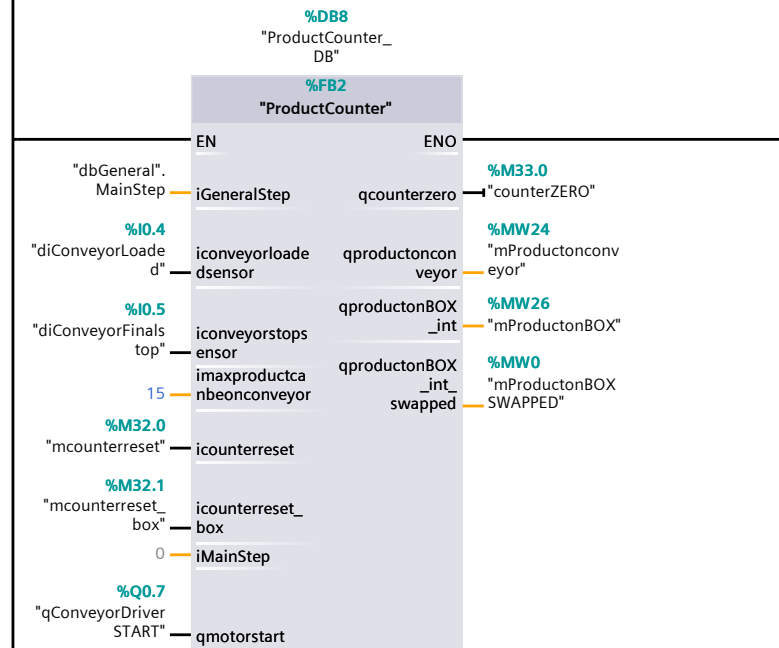
Main Properties					
General					
Name	Main	Number	1	Type	OB
Language	LAD	Numbering	Automatic		
Information					
Title	"Main Program Sweep (Cycle)"	Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value
▼ Input		
Initial_Call	Bool	
Remanence	Bool	
Temp		
Constant		

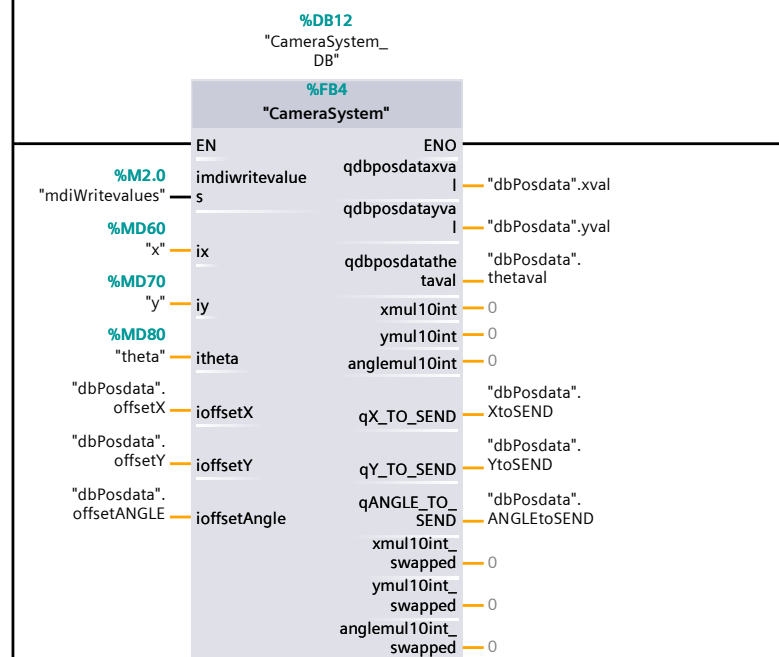
Network 1: BUTTON CONTROL



Network 2: PRODUCT ON CONVEYOR



Network 3: CAMERA SYSTEM



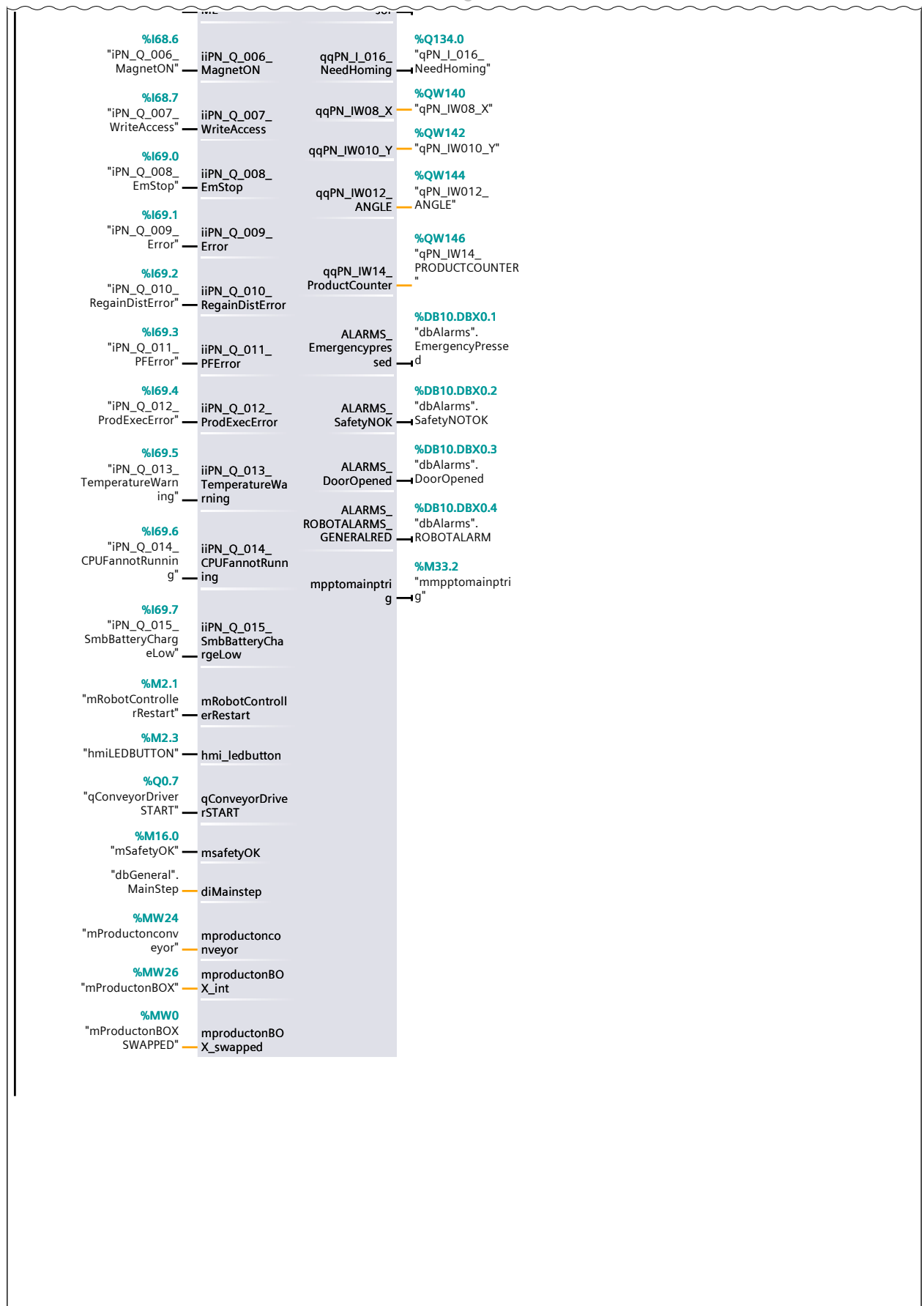
Network 4: MAIN SYSTEM

Network 4: MAIN SYSTEM (1.1 / 2.1)

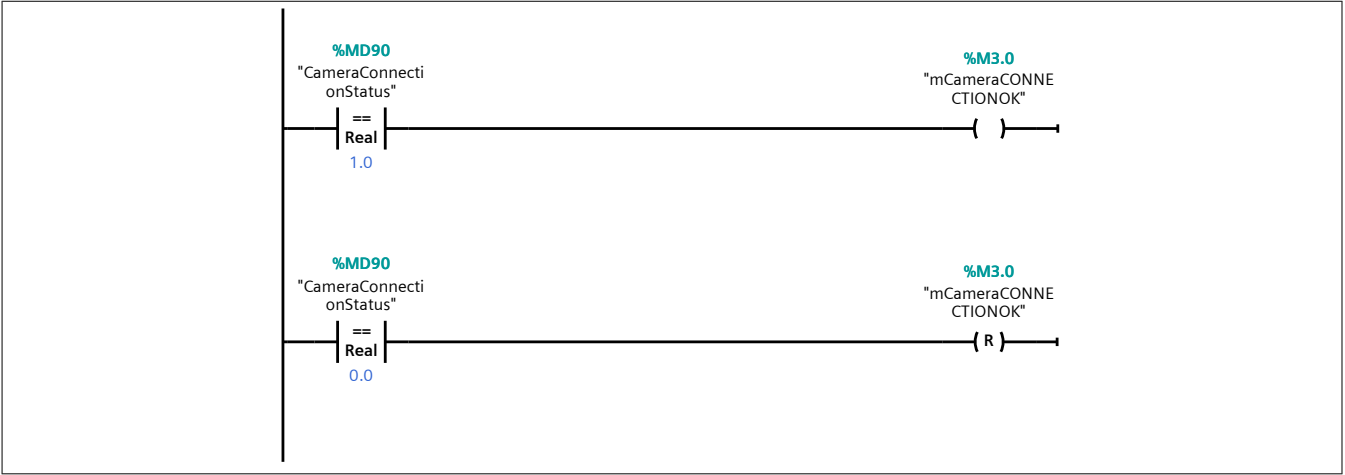
Input/Output Address	Logic Instruction	Comment
%DB11 "MainSystem_DB"		
%FB3 "MainSystem"		
EN	ENO	
%I0.0 "diConveyorDriverOK"	qLightningLeds	"qLightningLeds"
%M3.0 "mCameraCONNECTIONOK"	qConveyorDriverRESET	"qConveyorDriverRESET"
%I0.1 "diEmergencyOK"	qRobotMagnetSTART	"qRobotMagnetSTART"
%I0.2 "diDoorSwitchOK"	qSenticamerapermissionOK	"qSenticamerapermissionOK"
%I0.3 "diRobothandPartsensor"	qqPN_I_000_MotorOff	"qPN_I_000_MotorOff"
%I0.4 "diConveyorLoaded"	qqPN_I_001_MotorON	"qPN_I_001_MotorON"
%I0.5 "diConveyorFinalstop"	qqPN_I_002_MotonStart	"qPN_I_002_MotonStart"
%I0.6 "diAutoStartButton"	qqPN_I_003_QuickStop	"qPN_I_003_QuickStop"
%I0.7 "diAutoStopButton"	qqPN_I_004_Start	"qPN_I_004_Start"
%I1.0 "diResetButton"	qqPN_I_005_StartMain	"qPN_I_005_StartMain"
%M2.5 "mHMIResetbutton"	qqPN_I_006_Stop	"qPN_I_006_Stop"
"dbPosdata".XtoSEND	qqPN_I_007_StopCycle	"qPN_I_008_ResetEstop"
"dbPosdata".YtoSEND	qqPN_I_008_ResetEstop	"qPN_I_008_ResetEstop"
%M33.3 "mHMIRobotGOhome"	qqPN_I_009_ResetError	"qPN_I_009_ResetError"
%I68.0 "iPN_Q_000_MotorOffState"	qqPN_I_010_SYSReset	"qPN_I_010_SYSReset"
%I68.1 "iPN_Q_001_MotorOnState"	qqPN_I_011_WriteAccess	"qPN_I_011_WriteAccess"
%I68.2 "iPN_Q_002_RunchainOk"	qqPN_I_012_PToMain	"qPN_I_011_WriteAccess"
%I68.3 "iPN_Q_003_AutoON"	qqPN_I_013_RobotCanStart	"qPN_I_013_RobotCanStart"
%I68.4 "iPN_Q_004_TaskExecuting"	qqPN_I_014_Reset	"qPN_I_014_Reset_Counter"
%I68.5 "iPN_Q_005_RobotReadyHOME"	qqPN_I_015_RobotHandSensor	"qPN_I_015_RobotHandSensor"

Network 4: MAIN SYSTEM (2.1 / 2.1)

1.1 (Page2 - 3)



Network 5: bu



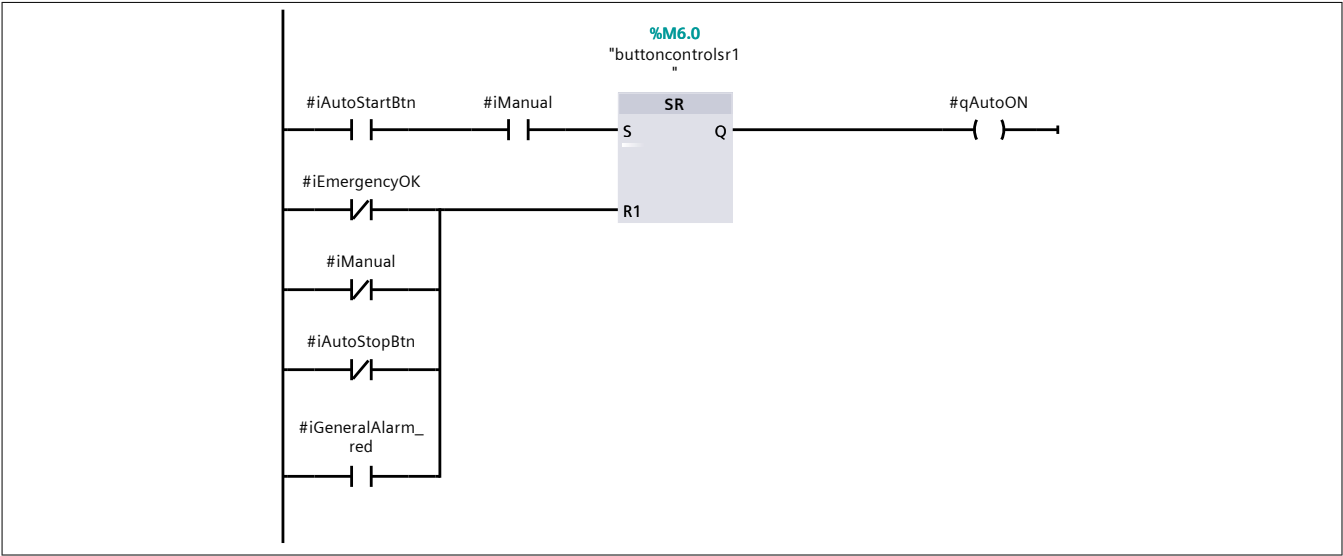
PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

Button_Control [FB1]

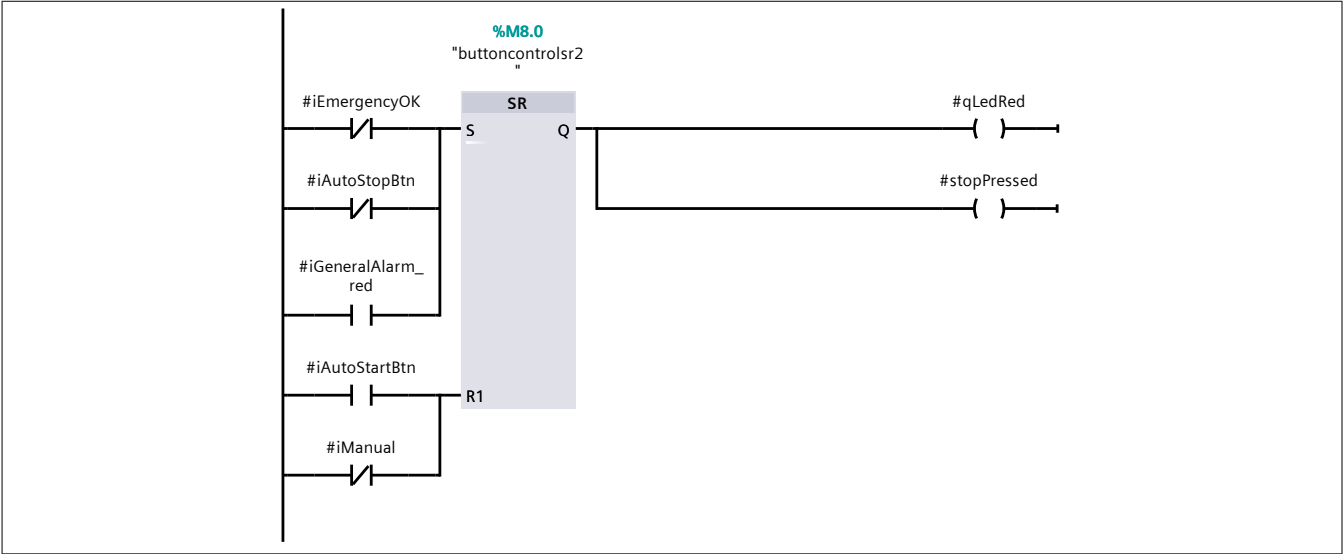
Button_Control Properties					
General					
Name	Button_Control	Number	1	Type	FB
Language	LAD	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Retain
▼ Input			
iAutoStartBtn	Bool	false	Non-retain
iAutoStopBtn	Bool	false	Non-retain
iManual	Bool	false	Non-retain
iEmergencyOK	Bool	false	Non-retain
iGeneralAlarm_red	Bool	false	Non-retain
buzzertime	Time	T#0ms	Non-retain
▼ Output			
qLedGreen	Bool	false	Non-retain
qLedYellow	Bool	false	Non-retain
qLedRed	Bool	false	Non-retain
qAutoLamp	Bool	false	Non-retain
qAutoON	Bool	false	Non-retain
qBuzzer	Bool	false	Non-retain
InOut			
▼ Static			
stopPressed	Bool	false	Non-retain
Temp			
Constant			

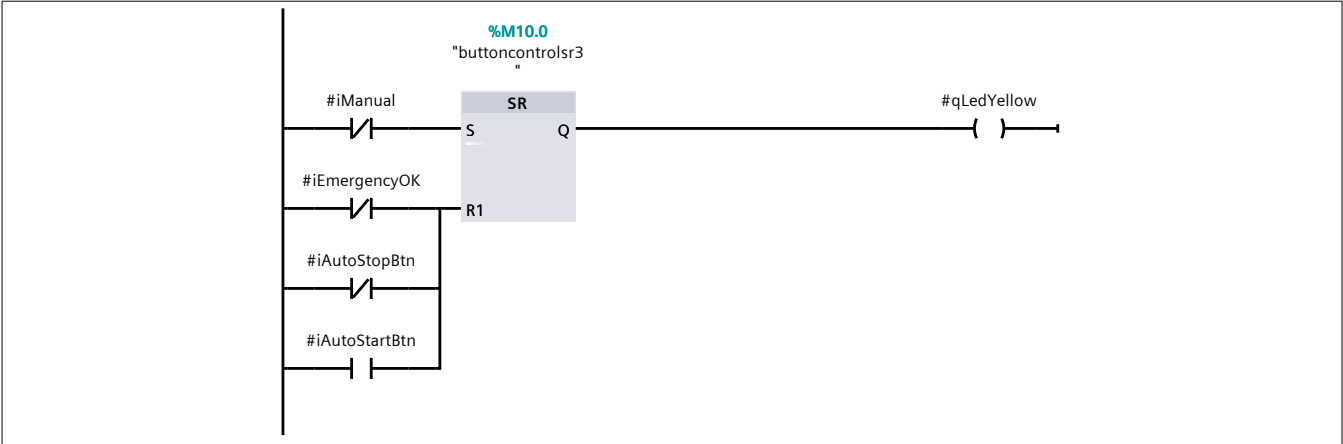
Network 1:



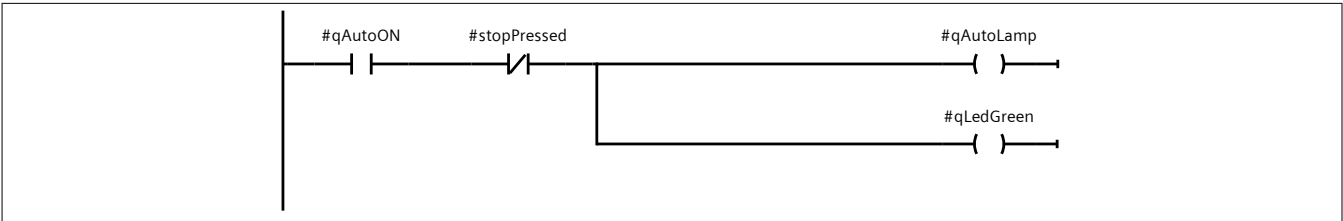
Network 2:



Network 3:



Network 4:



Network 5:

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

dbPosdata [DB3]

dbPosdata Properties					
General					
Name	dbPosdata	Number	3	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Start value	Retain
▼ Static			
xval	Real	0.0	False
yval	Real	0.0	False
thetaval	Real	0.0	False
offsetX	Real	0.0	False
offsetY	Real	0.0	False
offsetANGLE	Real	0.0	False
XtoSEND	Int	0	False
YtoSEND	Int	0	False
ANGLEtoSEND	Int	0	False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

Button_Control_DB [DB1]

Button_Control_DB Properties					
General					
Name	Button_Control_DB	Number	1	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Start value	Retain
▼ Input			
iAutoStartBtn	Bool	false	False
iAutoStopBtn	Bool	false	False
iManual	Bool	false	False
iEmergencyOK	Bool	false	False
iGeneralAlarm_red	Bool	false	False
buzzertime	Time	T#0ms	False
▼ Output			
qLedGreen	Bool	false	False
qLedYellow	Bool	false	False
qLedRed	Bool	false	False
qAutoLamp	Bool	false	False
qAutoON	Bool	false	False
qBuzzer	Bool	false	False
InOut			
▼ Static			
stopPressed	Bool	false	False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

dbGeneral [DB4]

dbGeneral Properties

General

Name	dbGeneral	Number	4	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Start value	Retain
▼ Static			
MainStep	Int	0	False
AutoON	Bool	false	False
Sendagaintime	Time	T#2S	False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

ProductCounter [FB2]

ProductCounter Properties

General

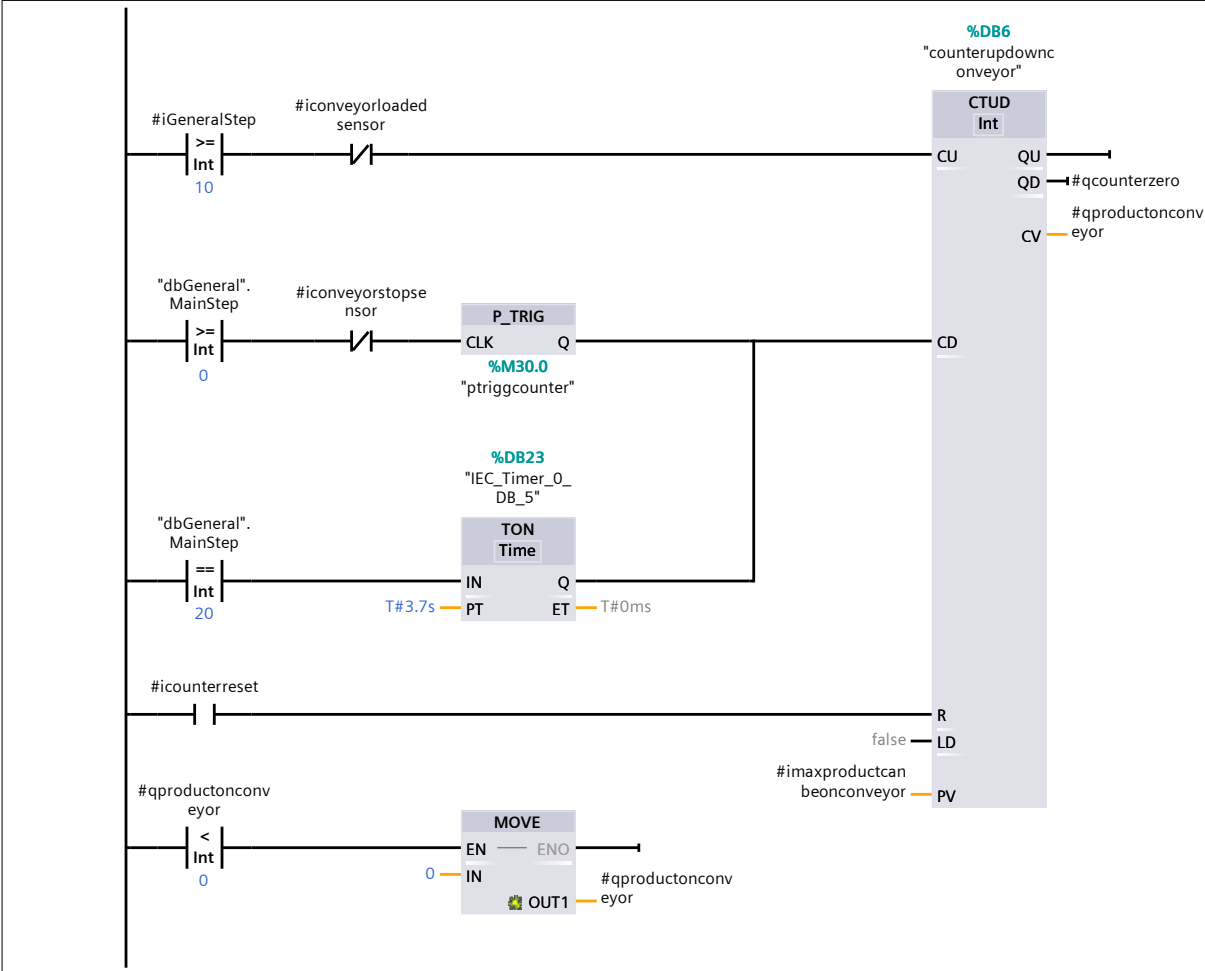
Name	ProductCounter	Number	2	Type	FB
Language	LAD	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

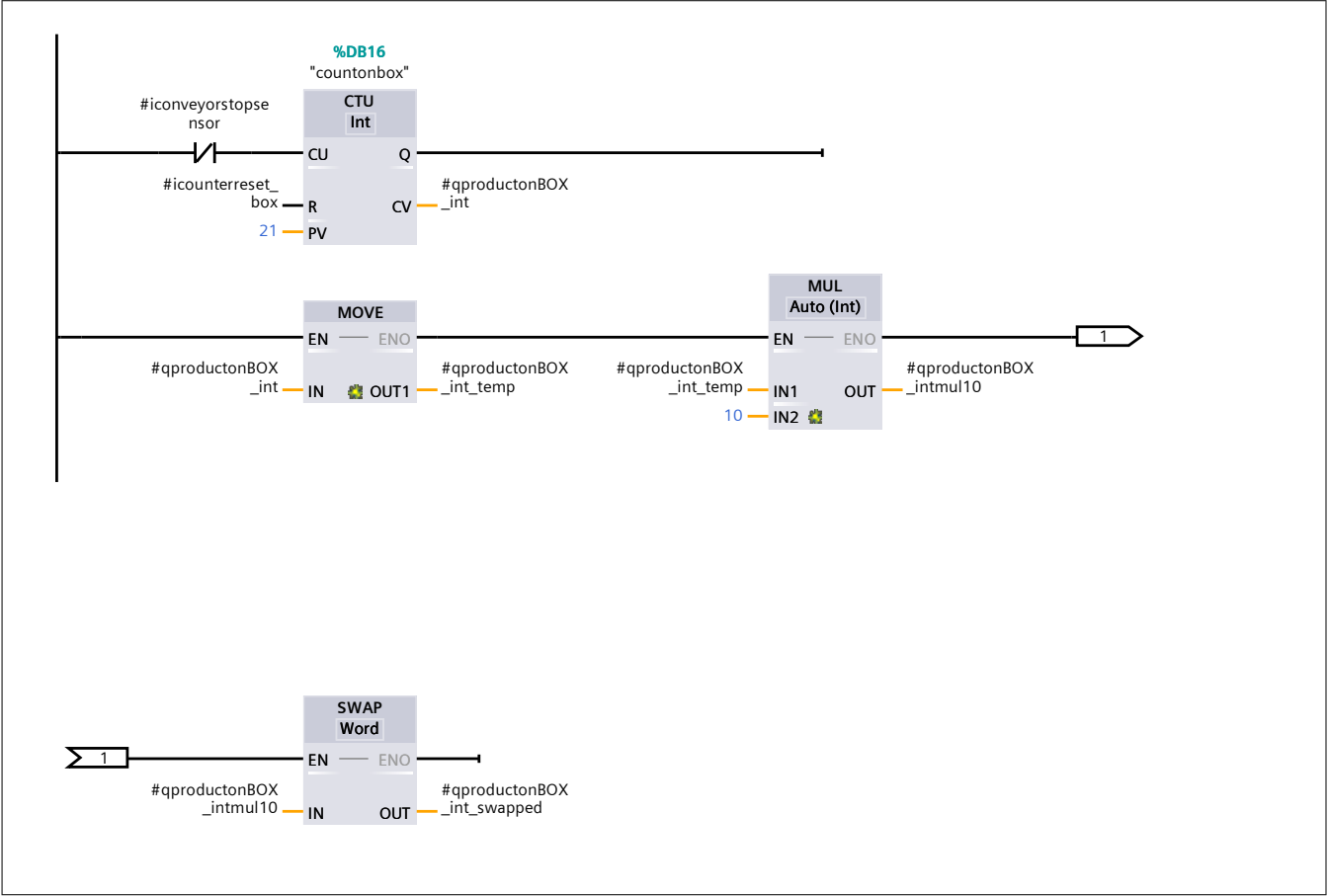
Name	Data type	Default value	Retain
▼ Input			
iGeneralStep	Int	0	Non-retain
iconveyorloadedsensor	Bool	false	Non-retain
iconveyorstopsensor	Bool	false	Non-retain
imaxproductcanbeonconveyor	Int	0	Non-retain
icounterreset	Bool	false	Non-retain
icounterreset_box	Bool	false	Non-retain
iMainStep	Int	0	Non-retain
▼ Output			
qcounterzero	Bool	false	Non-retain
qproductonconveyor	Int	0	Non-retain
qproductonBOX_int	Int	0	Non-retain
qproductonBOX_int_swapped	Int	0	Non-retain
▼ InOut			
qmotorstart	Bool	false	Non-retain
Static			
▼ Temp			
qproductonBOX_intmul10	Int		
qproductonBOX_int_temp	Int		
qproductonBOX_int_beforetemp	Int		
partsensed	Bool		
Constant			

Network 1:



Network 2:

Network 2:



Network 3:



PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

ProductCounter_DB [DB8]

ProductCounter_DB Properties					
General					
Name	ProductCounter_DB	Number	8	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Start value	Retain
▼ Input			
iGeneralStep	Int	0	False
iconveyorloadedsensor	Bool	false	False
iconveyorstopsensor	Bool	false	False
imaxproductcanbeonconveyor	Int	0	False
icounterreset	Bool	false	False
icounterreset_box	Bool	false	False
iMainStep	Int	0	False
▼ Output			
qcounterzero	Bool	false	False
qproductonconveyor	Int	0	False
qproductonBOX_int	Int	0	False
qproductonBOX_int_swapped	Int	0	False
▼ InOut			
qmotorstart	Bool	false	False
Static			

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PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

dbAlarms [DB10]

dbAlarms Properties

General

Name	dbAlarms	Number	10	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Start value	Retain
▼ Static			
CameraConnectionLOST	Bool	false	False
EmergencyPressed	Bool	false	False
SafetyNOTOK	Bool	false	False
DoorOpened	Bool	false	False
ROBOTALARM	Bool	false	False
rzv5	Bool	false	False
rzv6	Bool	false	False
rzv7	Bool	false	False
rzv8	Bool	false	False
rzv9	Bool	false	False
rzv10	Bool	false	False
rzv11	Bool	false	False
rzv12	Bool	false	False
rzv13	Bool	false	False
rzv14	Bool	false	False
rzv15	Bool	false	False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

MainSystem [FB3]

MainSystem Properties

General

Name	MainSystem	Number	3	Type	FB
Language	LAD	Numbering	Automatic		

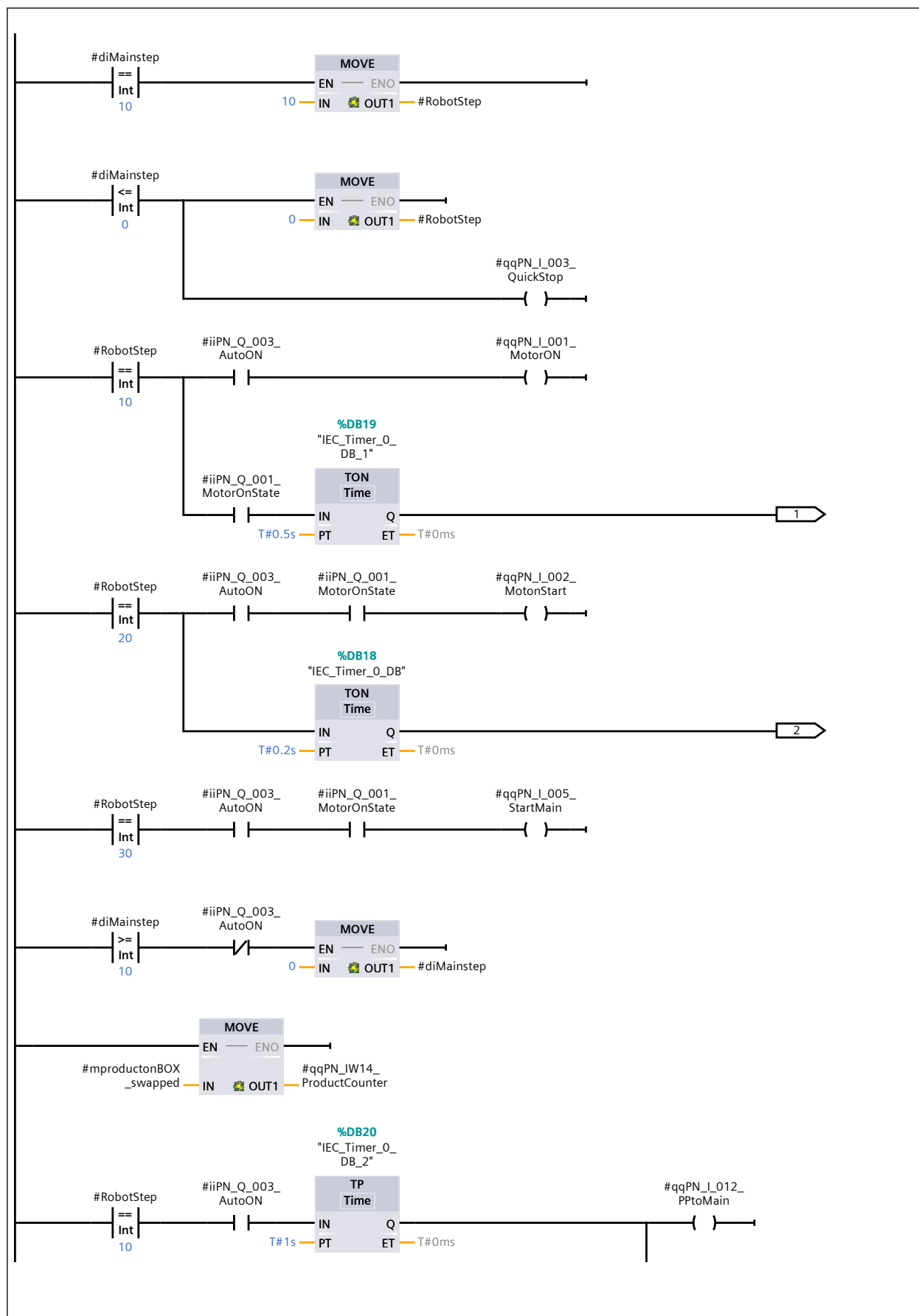
Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Default value	Retain
▼ Input			
diConveyorDriverOK	Bool	false	Non-retain
mCameraconnectionOK	Bool	false	Non-retain
diEmergencyOK	Bool	false	Non-retain
diDoorSwitchOK	Bool	false	Non-retain
diRobothandPartsensor	Bool	false	Non-retain
diConveyorLoaded	Bool	false	Non-retain
diConveyorFinalstop	Bool	false	Non-retain
diAutoStartButton	Bool	false	Non-retain
diAutoStopButton	Bool	false	Non-retain
diResetButon	Bool	false	Non-retain
mHMIResetbutton	Bool	false	Non-retain
diXtoSEND	Int	0	Non-retain
diYtoSEND	Int	0	Non-retain
diANGLEtoSEND	Int	0	Non-retain
iHMlrobotgoHome	Bool	false	Non-retain
iiPN_Q_000_MotorOffState	Bool	false	Non-retain
iiPN_Q_001_MotorOnState	Bool	false	Non-retain
iiPN_Q_002_RunchainOk	Bool	false	Non-retain
iiPN_Q_003_AutoON	Bool	false	Non-retain
iiPN_Q_004_TaskExecuting	Bool	false	Non-retain
iiPN_Q_005_RobotReadyHOME	Bool	false	Non-retain
iiPN_Q_006_MagnetON	Bool	false	Non-retain
iiPN_Q_007_WriteAccess	Bool	false	Non-retain
iiPN_Q_008_EmStop	Bool	false	Non-retain
iiPN_Q_009_Error	Bool	false	Non-retain
iiPN_Q_010_RegainDistError	Bool	false	Non-retain
iiPN_Q_011_PFEError	Bool	false	Non-retain
iiPN_Q_012_ProdExecError	Bool	false	Non-retain
iiPN_Q_013_TemperatureWarning	Bool	false	Non-retain
iiPN_Q_014_CPUFannotRunning	Bool	false	Non-retain
iiPN_Q_015_SmbBatteryChargeLow	Bool	false	Non-retain
mRobotControllerRestart	Bool	false	Non-retain
hmi_ledbutton	Bool	false	Non-retain
▼ Output			
qLightningLeds	Bool	false	Non-retain
qConveyorDriverRESET	Bool	false	Non-retain
qRobotMagnetSTART	Bool	false	Non-retain
qSenttocamerapermissionOK	Int	0	Non-retain

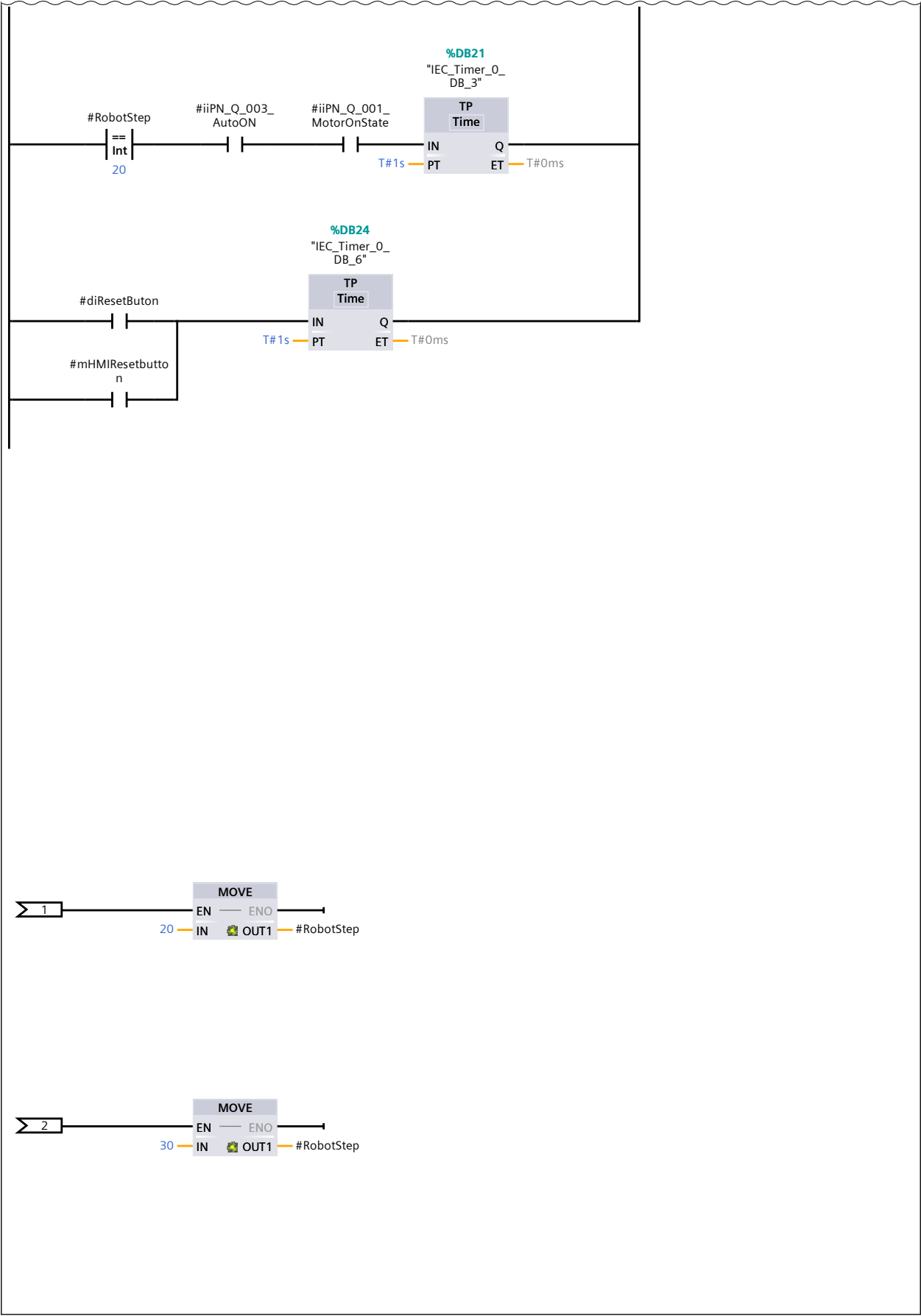
Totally Integrated Automation Portal			
Name	Data type	Default value	Retain
qqPN_I_000_MotorOff	Bool	false	Non-retain
qqPN_I_001_MotorON	Bool	false	Non-retain
qqPN_I_002_MotonStart	Bool	false	Non-retain
qqPN_I_003_QuickStop	Bool	false	Non-retain
qqPN_I_004_Start	Bool	false	Non-retain
qqPN_I_005_StartMain	Bool	false	Non-retain
qqPN_I_006_Stop	Bool	false	Non-retain
qqPN_I_007_StopCycle	Bool	false	Non-retain
qqPN_I_008_ResetEstop	Bool	false	Non-retain
qqPN_I_009_ResetError	Bool	false	Non-retain
qqPN_I_010_SYSReset	Bool	false	Non-retain
qqPN_I_011_WriteAccess	Bool	false	Non-retain
qqPN_I_012_PPtoMain	Bool	false	Non-retain
qqPN_I_013_RobotCanStart	Bool	false	Non-retain
qqPN_I_014_Reset	Bool	false	Non-retain
qqPN_I_015_RobotHandSensor	Bool	false	Non-retain
qqPN_I_016_NeedHoming	Bool	false	Non-retain
qqPN_IW08_X	Int	0	Non-retain
qqPN_IW010_Y	Int	0	Non-retain
qqPN_IW012_ANGLE	Int	0	Non-retain
qqPN_IW14_ProductCounter	Int	0	Non-retain
ALARMS_Emergencypressed	Bool	false	Non-retain
ALARMS_SafetyNOK	Bool	false	Non-retain
ALARMS_DoorOpened	Bool	false	Non-retain
ALARMS_ROBOTALARMS_GENER-ALRED	Bool	false	Non-retain
mpptomainptrig	Bool	false	Non-retain
▼ InOut			
qConveyorDriverSTART	Bool	false	Non-retain
msafetyOK	Bool	false	Non-retain
diMainstep	Int	0	Non-retain
mproductonconveyor	Int	0	Non-retain
mproductonBOX_int	Int	0	Non-retain
mproductonBOX_swapped	Int	0	Non-retain
▼ Static			
RobotStep	Int	0	Non-retain
Temp			
Constant			
Network 1: ROBOT			

Network 1: ROBOT (1.1 / 2.1)

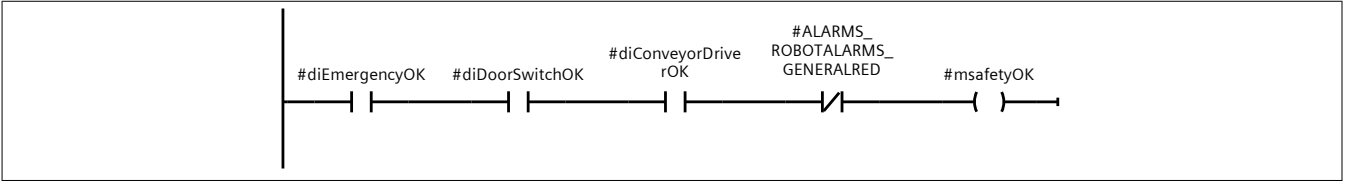


Network 1: ROBOT (2.1 / 2.1)

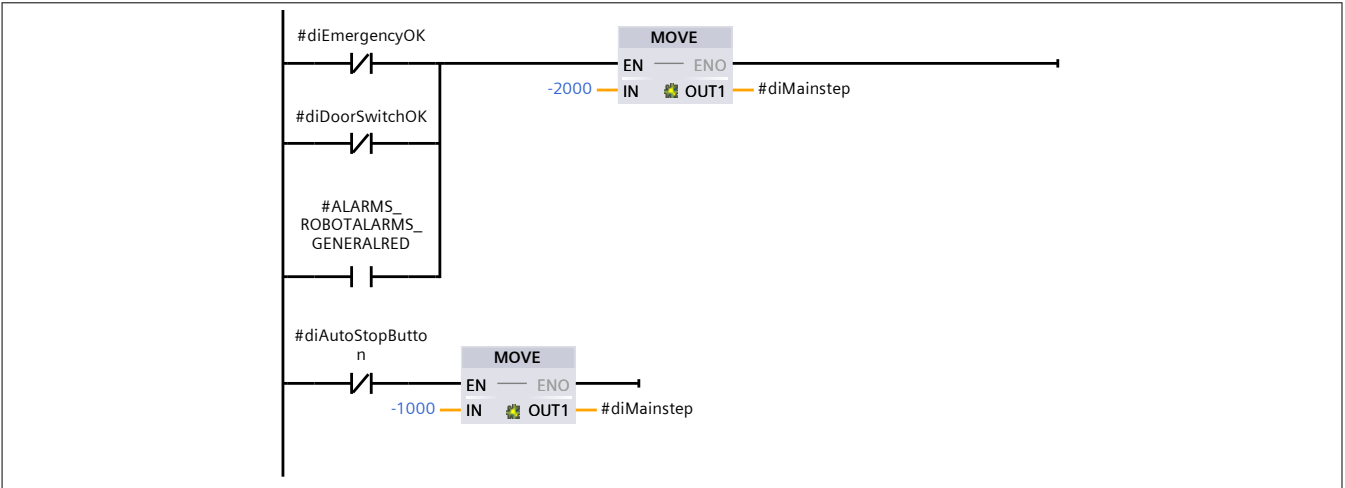
1.1 (Page10 - 3)



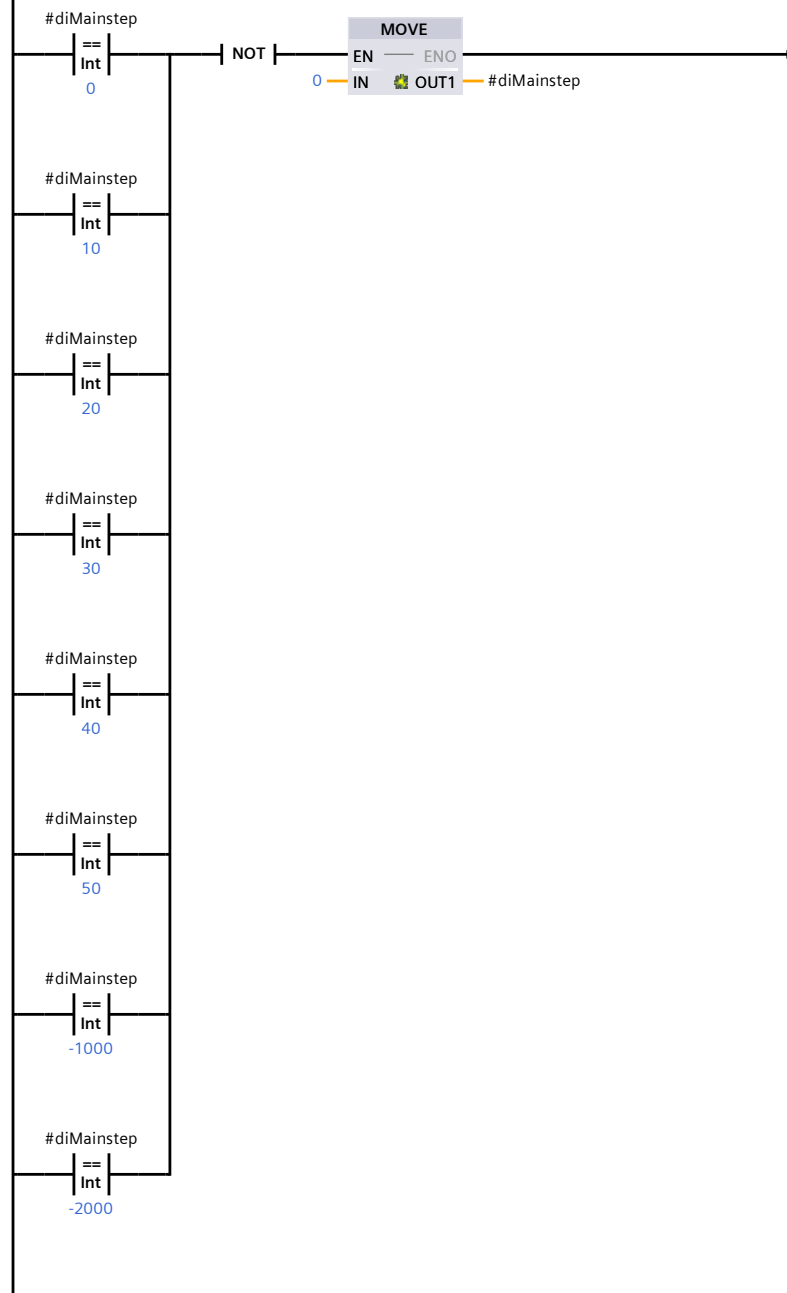
Network 2:



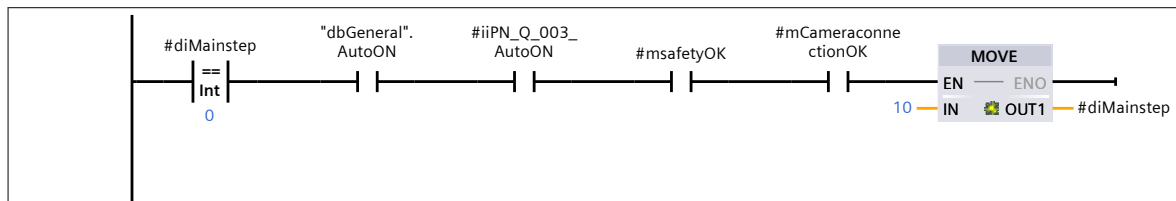
Network 3:



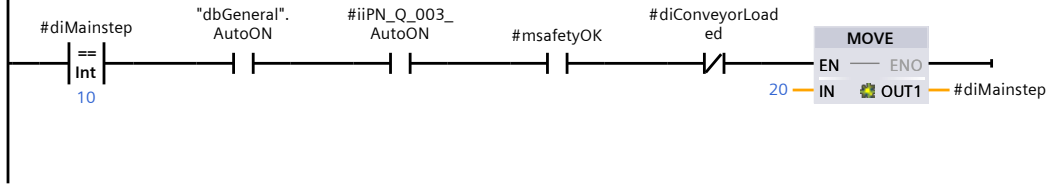
Network 4:



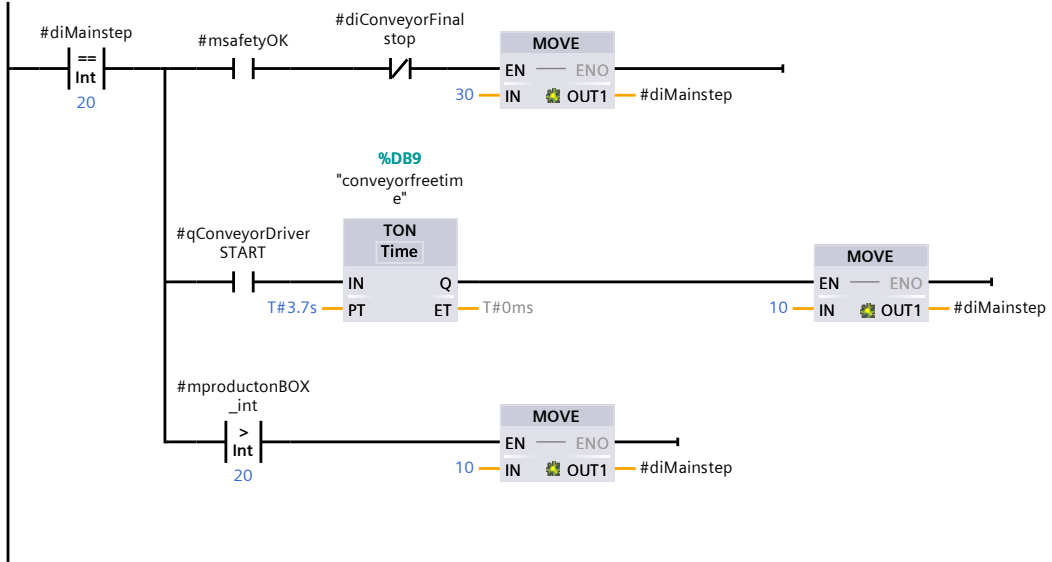
Network 5: oto basılınca 10 a geç



Network 6: ürün gelince 20 ye geç

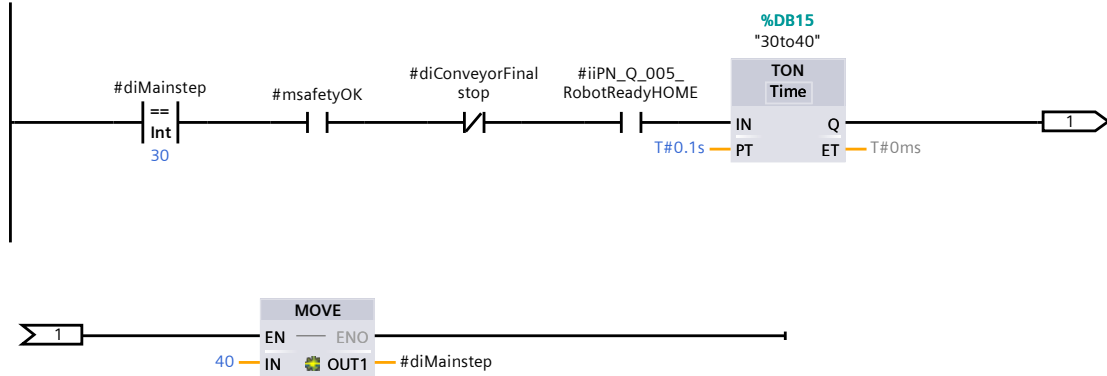


Network 7: robotun oraya ürün gelince 30 a geç

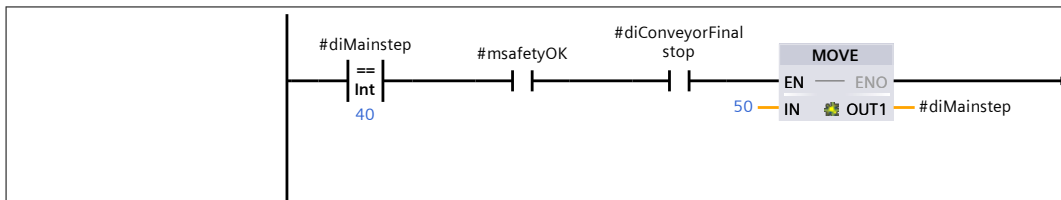


Network 8: ölçmek için diğer adıma geç

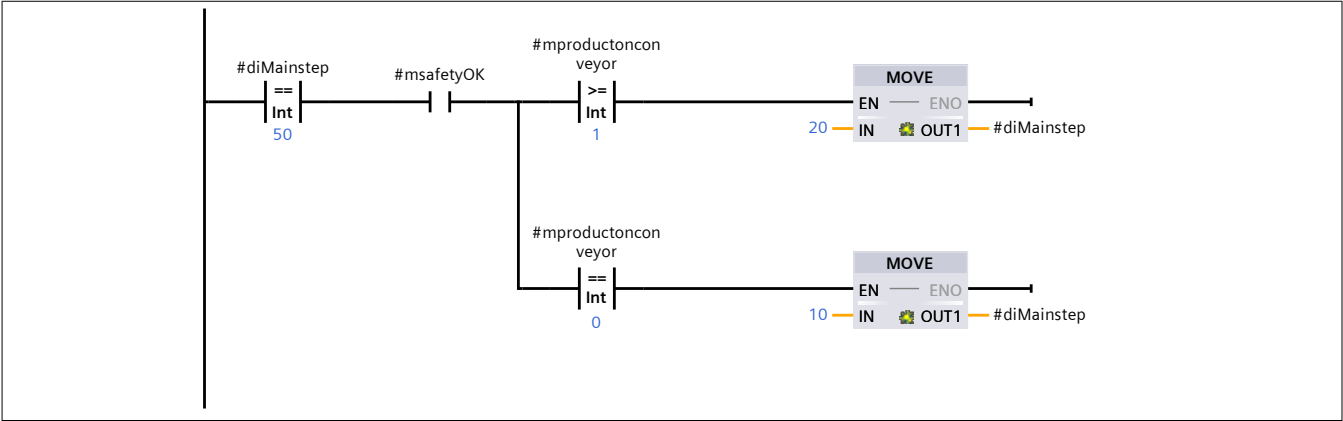
Network 8: ölçmek için diğer adıma geç



Network 9: değerler gönderildi ve sensor tekrar gördü ürün gitti



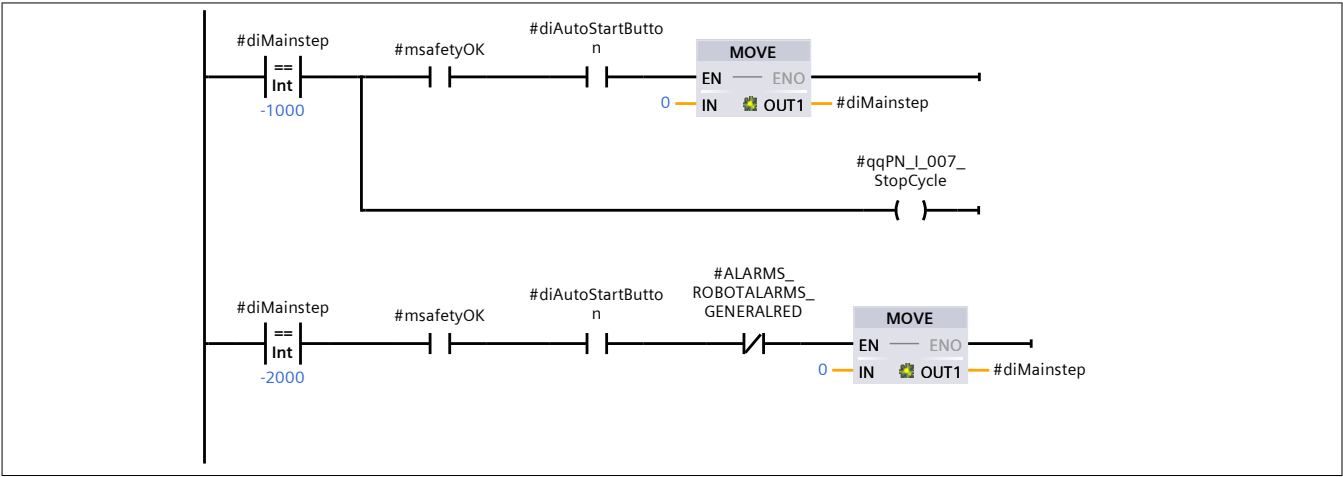
Network 10:



Network 11:



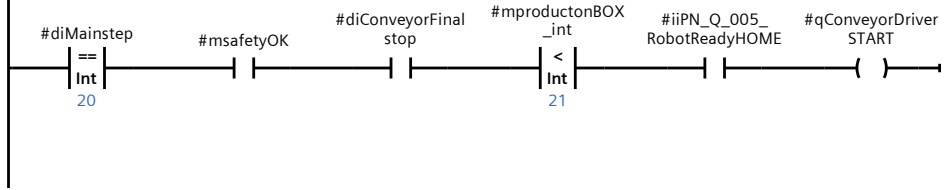
Network 12: ACİL VE STOP



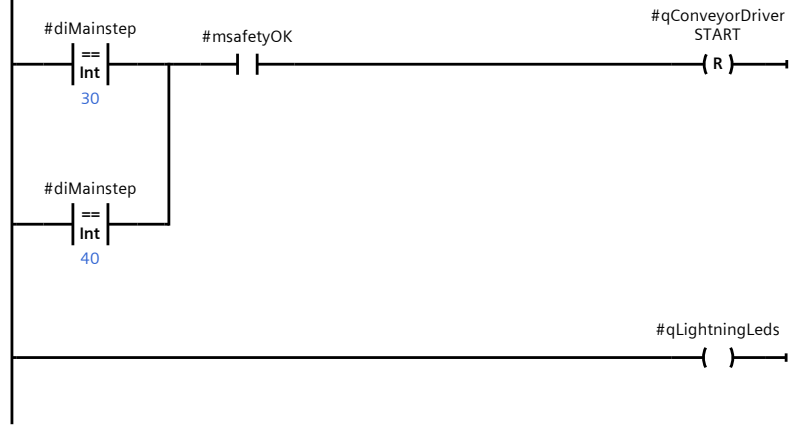
Network 13:



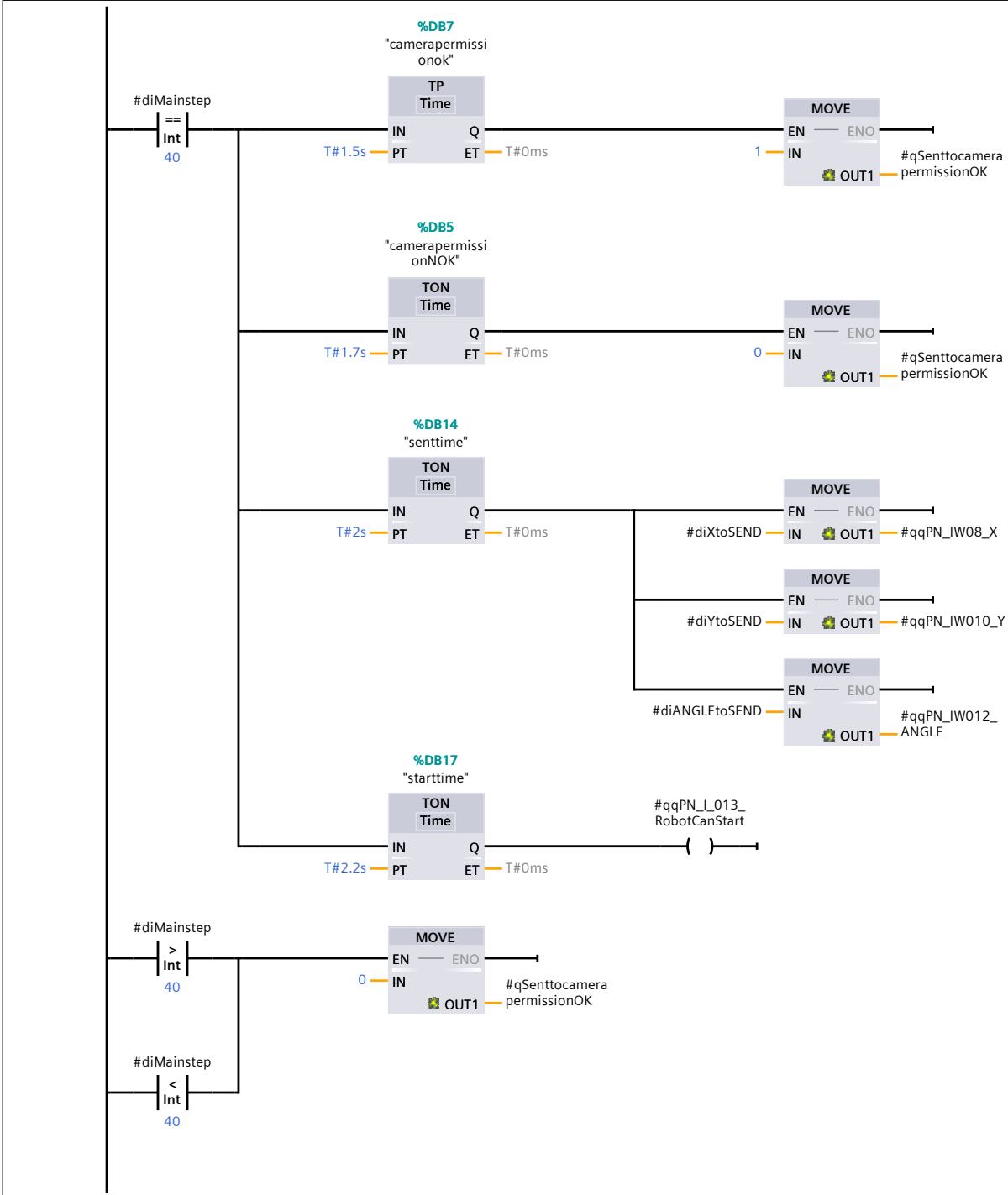
Network 14: yüklendiğinde konveyör çalışsın



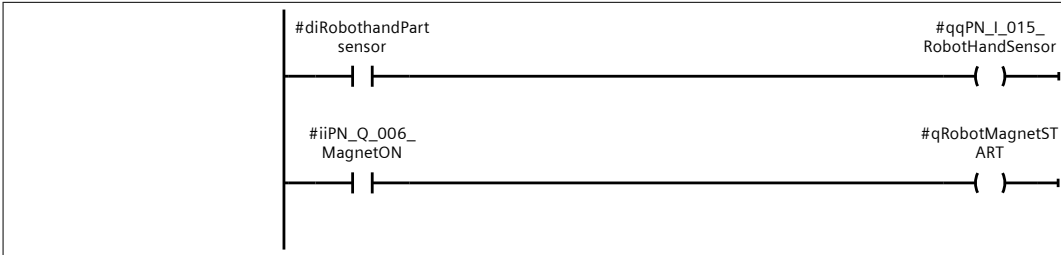
Network 15: konveyör dur



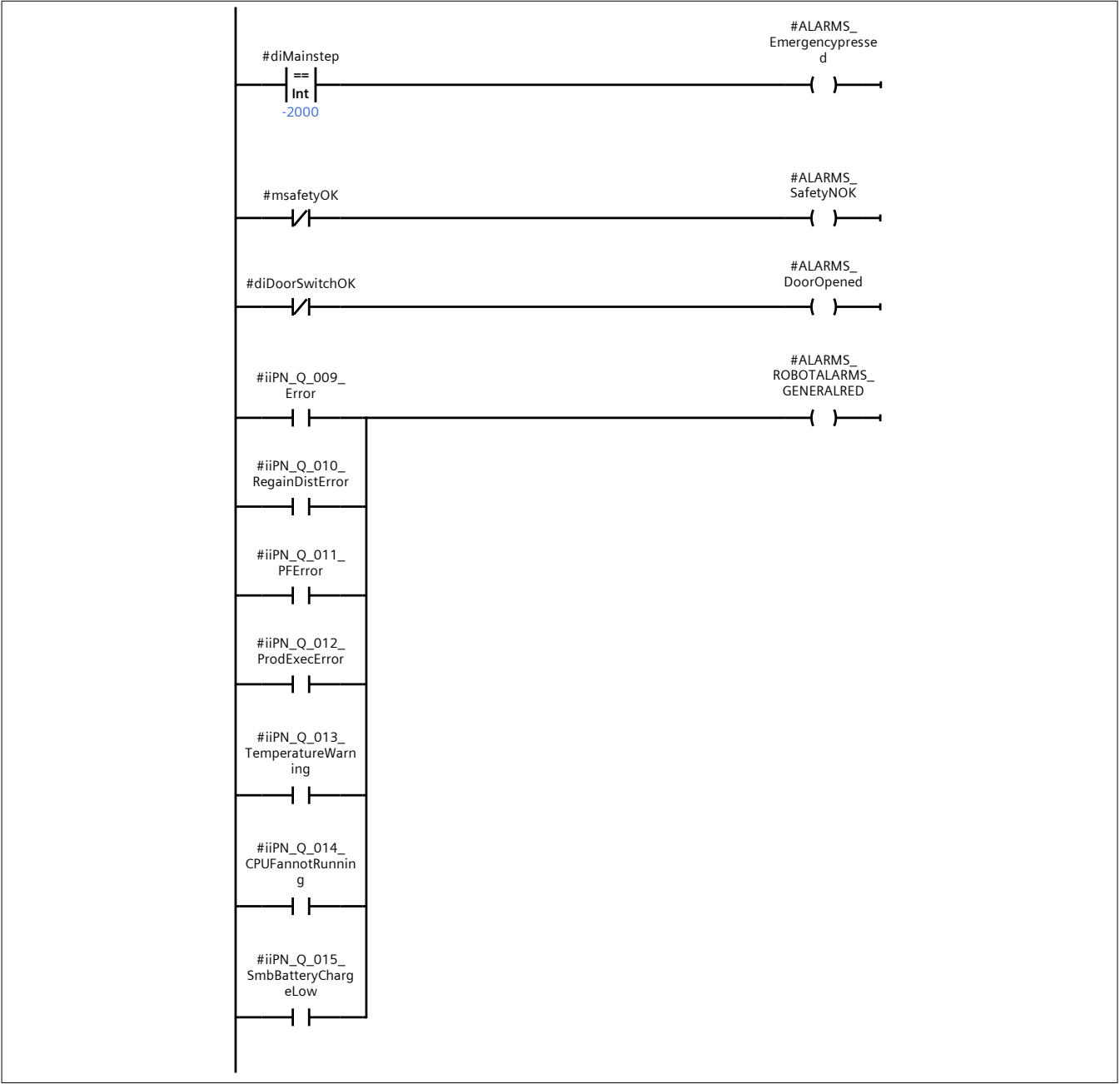
Network 16: ölç ve değerleri gönder



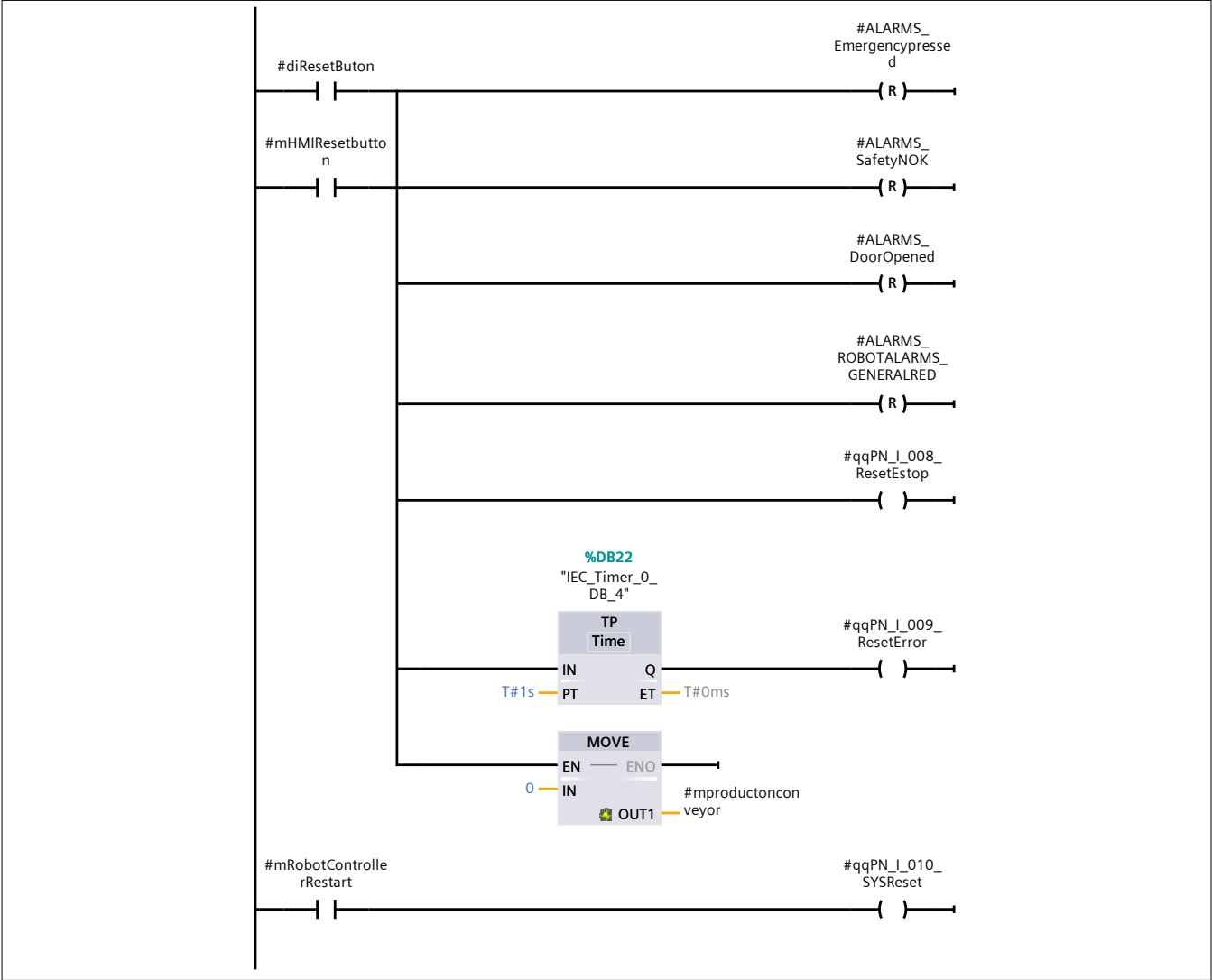
Network 17:



Network 18: ALARMS



Network 19: RESETPressed



PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

MainSystem_DB [DB11]

MainSystem_DB Properties

General

Name	MainSystem_DB	Number	11	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Start value	Retain
▼ Input			
diConveyorDriverOK	Bool	false	False
mCameraconnectionOK	Bool	false	False
diEmergencyOK	Bool	false	False
diDoorSwitchOK	Bool	false	False
diRobothandPartsensor	Bool	false	False
diConveyorLoaded	Bool	false	False
diConveyorFinalstop	Bool	false	False
diAutoStartButton	Bool	false	False
diAutoStopButton	Bool	false	False
diResetButon	Bool	false	False
mHMIResetbutton	Bool	false	False
diXtoSEND	Int	0	False
diYtoSEND	Int	0	False
diANGLEtoSEND	Int	0	False
iHMlrobotgoHome	Bool	false	False
iiPN_Q_000_MotorOffState	Bool	false	False
iiPN_Q_001_MotorOnState	Bool	false	False
iiPN_Q_002_RunchainOk	Bool	false	False
iiPN_Q_003_AutoON	Bool	false	False
iiPN_Q_004_TaskExecuting	Bool	false	False
iiPN_Q_005_RobotReadyHOME	Bool	false	False
iiPN_Q_006_MagnetON	Bool	false	False
iiPN_Q_007_WriteAccess	Bool	false	False
iiPN_Q_008_EmStop	Bool	false	False
iiPN_Q_009_Error	Bool	false	False
iiPN_Q_010_RegainDistError	Bool	false	False
iiPN_Q_011_PFError	Bool	false	False
iiPN_Q_012_ProdExecError	Bool	false	False
iiPN_Q_013_TemperatureWarning	Bool	false	False
iiPN_Q_014_CPUPannotRunning	Bool	false	False
iiPN_Q_015_SmbBatteryChargeLow	Bool	false	False
mRobotControllerRestart	Bool	false	False
hmi_ledbutton	Bool	false	False
▼ Output			
qLightningLeds	Bool	false	False
qConveyorDriverRESET	Bool	false	False
qRobotMagnetSTART	Bool	false	False
qSenttocamerapermissionOK	Int	0	False

Totally Integrated Automation Portal																																																																																																																																																					
<table><tr><th>Name</th><th>Data type</th><th>Start value</th><th>Retain</th></tr><tr><td>qqPN_I_000_MotorOff</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_001_MotorON</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_002_MotonStart</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_003_QuickStop</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_004_Start</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_005_StartMain</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_006_Stop</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_007_StopCycle</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_008_ResetEstop</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_009_ResetError</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_010_SYSReset</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_011_WriteAccess</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_012_PPtoMain</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_013_RobotCanStart</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_014_Reset</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_015_RobotHandSensor</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_I_016_NeedHoming</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>qqPN_IW08_X</td><td>Int</td><td>0</td><td>False</td></tr><tr><td>qqPN_IW010_Y</td><td>Int</td><td>0</td><td>False</td></tr><tr><td>qqPN_IW012_ANGLE</td><td>Int</td><td>0</td><td>False</td></tr><tr><td>qqPN_IW14_ProductCounter</td><td>Int</td><td>0</td><td>False</td></tr><tr><td>ALARMS_Emergencypressed</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>ALARMS_SafetyNOK</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>ALARMS_DoorOpened</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>ALARMS_ROBOTALARMS_GENERALRED</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>mpptomainptrig</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>▼ InOut</td><td></td><td></td><td></td></tr><tr><td>qConveyorDriverSTART</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>msafetyOK</td><td>Bool</td><td>false</td><td>False</td></tr><tr><td>diMainstep</td><td>Int</td><td>0</td><td>False</td></tr><tr><td>mproductonconveyor</td><td>Int</td><td>0</td><td>False</td></tr><tr><td>mproductonBOX_int</td><td>Int</td><td>0</td><td>False</td></tr><tr><td>mproductonBOX_swapped</td><td>Int</td><td>0</td><td>False</td></tr><tr><td>▼ Static</td><td></td><td></td><td></td></tr><tr><td>RobotStep</td><td>Int</td><td>0</td><td>False</td></tr></table>				Name	Data type	Start value	Retain	qqPN_I_000_MotorOff	Bool	false	False	qqPN_I_001_MotorON	Bool	false	False	qqPN_I_002_MotonStart	Bool	false	False	qqPN_I_003_QuickStop	Bool	false	False	qqPN_I_004_Start	Bool	false	False	qqPN_I_005_StartMain	Bool	false	False	qqPN_I_006_Stop	Bool	false	False	qqPN_I_007_StopCycle	Bool	false	False	qqPN_I_008_ResetEstop	Bool	false	False	qqPN_I_009_ResetError	Bool	false	False	qqPN_I_010_SYSReset	Bool	false	False	qqPN_I_011_WriteAccess	Bool	false	False	qqPN_I_012_PPtoMain	Bool	false	False	qqPN_I_013_RobotCanStart	Bool	false	False	qqPN_I_014_Reset	Bool	false	False	qqPN_I_015_RobotHandSensor	Bool	false	False	qqPN_I_016_NeedHoming	Bool	false	False	qqPN_IW08_X	Int	0	False	qqPN_IW010_Y	Int	0	False	qqPN_IW012_ANGLE	Int	0	False	qqPN_IW14_ProductCounter	Int	0	False	ALARMS_Emergencypressed	Bool	false	False	ALARMS_SafetyNOK	Bool	false	False	ALARMS_DoorOpened	Bool	false	False	ALARMS_ROBOTALARMS_GENERALRED	Bool	false	False	mpptomainptrig	Bool	false	False	▼ InOut				qConveyorDriverSTART	Bool	false	False	msafetyOK	Bool	false	False	diMainstep	Int	0	False	mproductonconveyor	Int	0	False	mproductonBOX_int	Int	0	False	mproductonBOX_swapped	Int	0	False	▼ Static				RobotStep	Int	0	False		
Name	Data type	Start value	Retain																																																																																																																																																		
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qqPN_I_005_StartMain	Bool	false	False																																																																																																																																																		
qqPN_I_006_Stop	Bool	false	False																																																																																																																																																		
qqPN_I_007_StopCycle	Bool	false	False																																																																																																																																																		
qqPN_I_008_ResetEstop	Bool	false	False																																																																																																																																																		
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qqPN_IW08_X	Int	0	False																																																																																																																																																		
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qqPN_IW14_ProductCounter	Int	0	False																																																																																																																																																		
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mproductonBOX_swapped	Int	0	False																																																																																																																																																		
▼ Static																																																																																																																																																					
RobotStep	Int	0	False																																																																																																																																																		

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

CameraSystem [FB4]

CameraSystem Properties

General

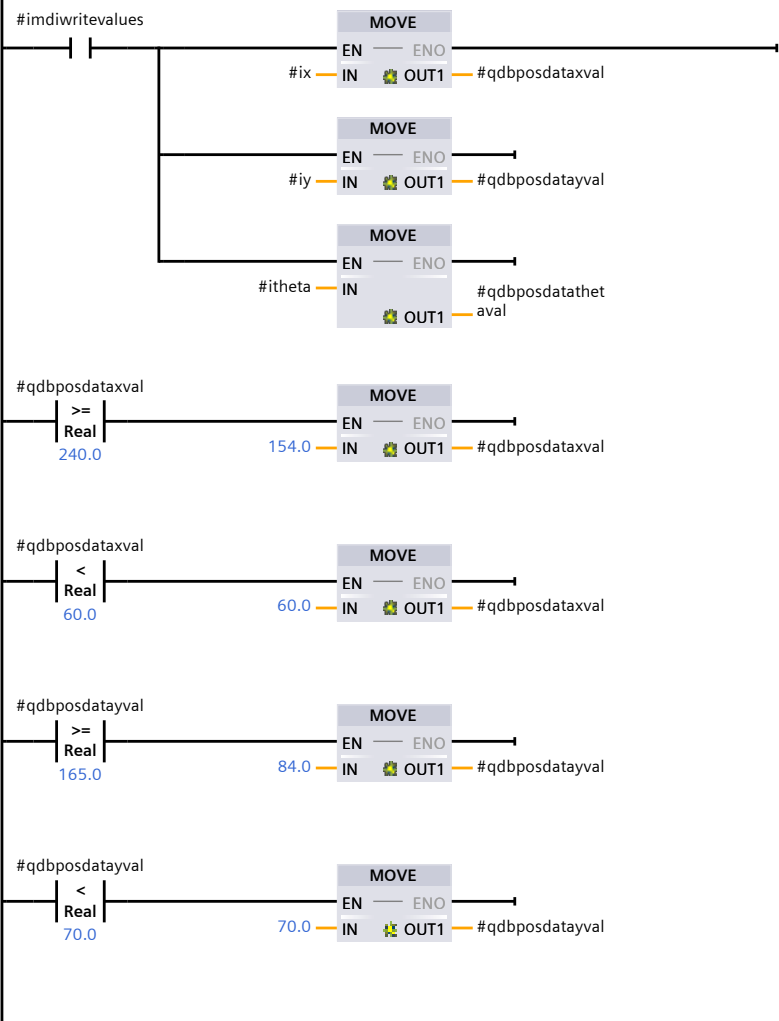
Name	CameraSystem	Number	4	Type	FB
Language	LAD	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

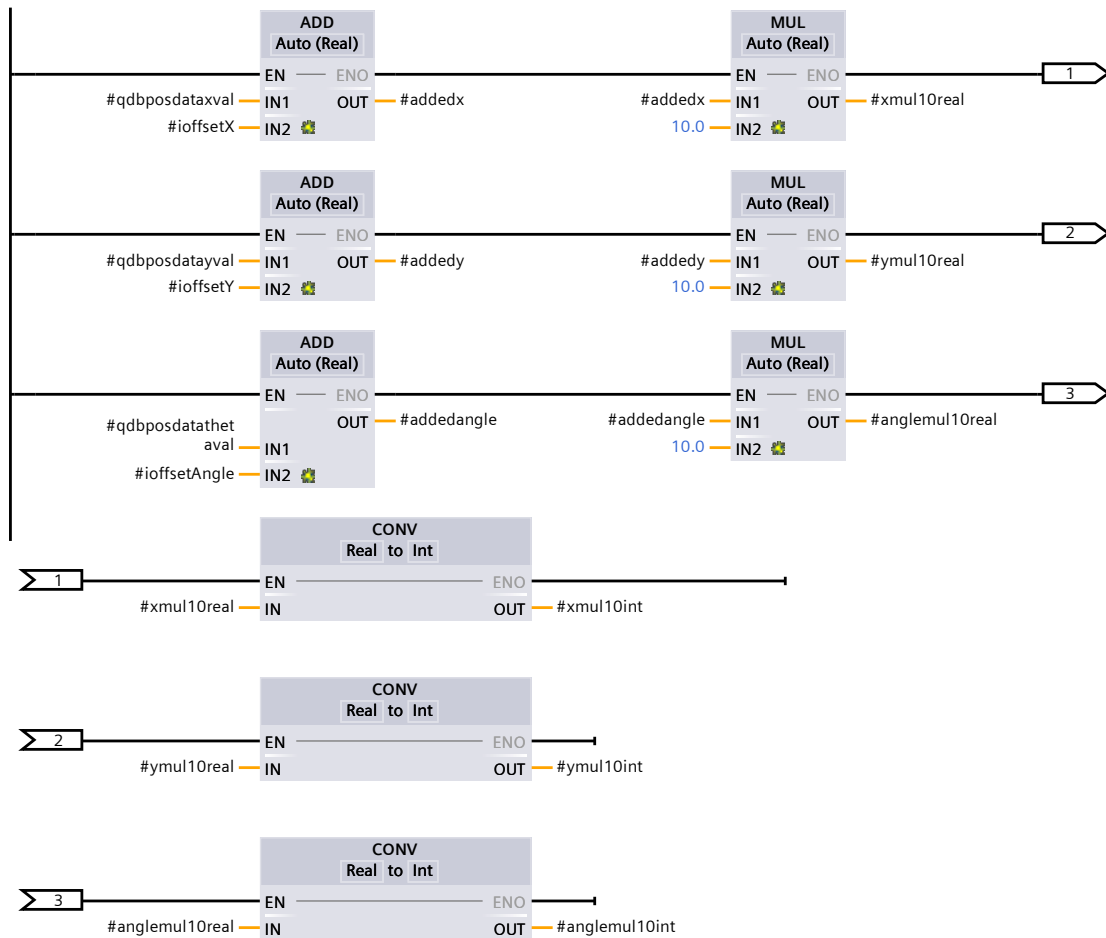
Name	Data type	Default value	Retain
▼ Input			
imdiwritevalues	Bool	false	Non-retain
ix	Real	0.0	Non-retain
iy	Real	0.0	Non-retain
itheta	Real	0.0	Non-retain
ioffsetX	Real	0.0	Non-retain
ioffsetY	Real	0.0	Non-retain
ioffsetAngle	Real	0.0	Non-retain
▼ Output			
qdbposdataxval	Real	0.0	Non-retain
qdbposdatayval	Real	0.0	Non-retain
qdbposdatathetaval	Real	0.0	Non-retain
xmul10int	Int	0	Non-retain
ymul10int	Int	0	Non-retain
anglemul10int	Int	0	Non-retain
qX_TO_SEND	Int	0	Non-retain
qY_TO_SEND	Int	0	Non-retain
qANGLE_TO_SEND	Int	0	Non-retain
xmul10int_swapped	Int	0	Non-retain
ymul10int_swapped	Int	0	Non-retain
anglemul10int_swapped	Int	0	Non-retain
InOut			
Static			
▼ Temp			
xmul10real	Real		
ymul10real	Real		
anglemul10real	Real		
addedx	Real		
addedy	Real		
addedangle	Real		
Constant			

Network 1:

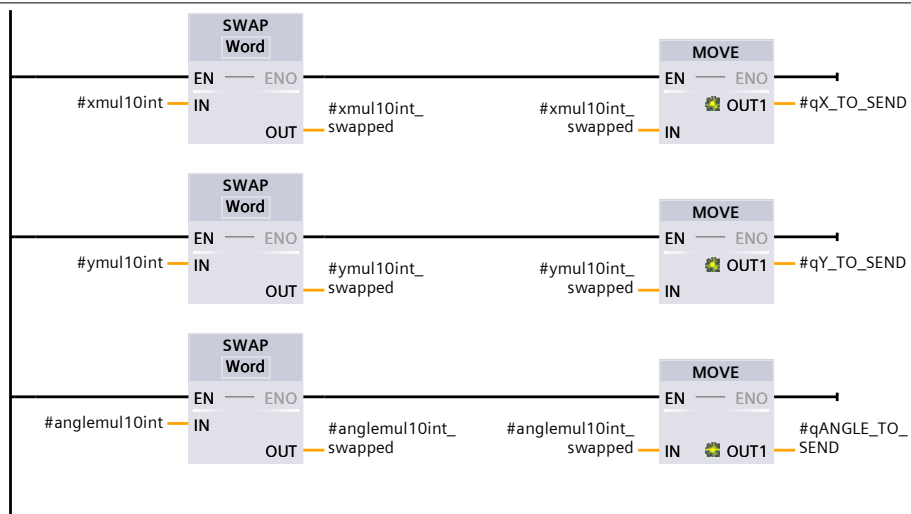


Network 2:

Network 2:



Network 3:



PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

CameraSystem_DB [DB12]

CameraSystem_DB Properties

General

Name	CameraSystem_DB	Number	12	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Start value	Retain
▼ Input			
imdiwritevalues	Bool	false	False
ix	Real	0.0	False
iy	Real	0.0	False
itheta	Real	0.0	False
ioffsetX	Real	0.0	False
ioffsetY	Real	0.0	False
ioffsetAngle	Real	0.0	False
▼ Output			
qdbposdataxval	Real	0.0	False
qdbposdatayval	Real	0.0	False
qdbposdatathetaval	Real	0.0	False
xmul10int	Int	0	False
ymul10int	Int	0	False
anglemul10int	Int	0	False
qX_TO_SEND	Int	0	False
qY_TO_SEND	Int	0	False
qANGLE_TO_SEND	Int	0	False
xmul10int_swapped	Int	0	False
ymul10int_swapped	Int	0	False
anglemul10int_swapped	Int	0	False
InOut			
Static			

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks

dbRobot [DB13]

dbRobot Properties

General

Name	dbRobot	Number	13	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	

Name	Data type	Start value	Retain
▼ Static			
RECIEVE	Struct		False
RECIEVE_SPARE	Array[64..199] of Bool		False
SEND	Struct		False
SEND_SPARE	Array[64..199] of Bool		False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

buzzertimer [DB2]

buzzertimer Properties

General

Name	buzzertimer	Number	2	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

counterupdownconveyor [DB6]

counterupdownconveyor Properties

General

Name	counterupdownconveyor	Number	6	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	CNTR

Name	Data type	Start value	Retain
▼ Static			
CU	Bool	false	True
CD	Bool	false	True
R	Bool	false	True
LD	Bool	false	True
QU	Bool	false	True
QD	Bool	false	True
PV	Int	0	True
CV	Int	0	True

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

camerapermissionok [DB7]

camerapermissionok Properties

General

Name	camerapermissionok	Number	7	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

camerapermissionNOK [DB5]

camerapermissionNOK Properties

General

Name	camerapermissionNOK	Number	5	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

conveyorfreetime [DB9]

conveyorfreetime Properties

General

Name	conveyorfreetime	Number	9	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks /
Program resources

senttime [DB14]

senttime Properties					
General					
Name	senttime	Number	14	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR
Name		Data type	Start value		Retain
▼ Static					
PT		Time	T#0ms		False
ET		Time	T#0ms		False
IN		Bool	false		False
Q		Bool	false		False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

30to40 [DB15]

30to40 Properties

General

Name	30to40	Number	15	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

countonbox [DB16]

countonbox Properties					
General					
Name	countonbox	Number	16	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	CNTR

Name	Data type	Start value	Retain
▼ Static			
CU	Bool	false	True
CD	Bool	false	True
R	Bool	false	True
LD	Bool	false	True
QU	Bool	false	True
QD	Bool	false	True
PV	Int	0	True
CV	Int	0	True

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

starttime [DB17]

starttime Properties

General

Name	starttime	Number	17	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

IEC_Timer_0_DB [DB18]

IEC_Timer_0_DB Properties

General

Name	IEC_Timer_0_DB	Number	18	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks /
Program resources

IEC_Timer_0_DB_1 [DB19]

IEC_Timer_0_DB_1 Properties					
General					
Name	IEC_Timer_0_DB_1	Number	19	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name		Data type	Start value	Retain
▼ Static				
PT		Time	T#0ms	False
ET		Time	T#0ms	False
IN		Bool	false	False
Q		Bool	false	False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks /
Program resources

IEC_Timer_0_DB_2 [DB20]

IEC_Timer_0_DB_2 Properties					
General					
Name	IEC_Timer_0_DB_2	Number	20	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR
Name		Data type	Start value		Retain
▼ Static					
PT		Time	T#0ms		False
ET		Time	T#0ms		False
IN		Bool	false		False
Q		Bool	false		False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks /
Program resources

IEC_Timer_0_DB_3 [DB21]

IEC_Timer_0_DB_3 Properties					
General					
Name	IEC_Timer_0_DB_3	Number	21	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks /
Program resources

IEC_Timer_0_DB_4 [DB22]

IEC_Timer_0_DB_4 Properties					
General					
Name	IEC_Timer_0_DB_4	Number	22	Type	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

IEC_Timer_0_DB_5 [DB23]

IEC_Timer_0_DB_5 Properties

General

Name	IEC_Timer_0_DB_5	Number	23	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False

Totally Integrated Automation Portal

PLC_1 [CPU 1214C DC/DC/DC] / Program blocks / System blocks / Program resources

IEC_Timer_0_DB_6 [DB24]

IEC_Timer_0_DB_6 Properties

General

Name	IEC_Timer_0_DB_6	Number	24	Type	DB
Language	DB	Numbering	Automatic		

Information

Title		Author	Simatic	Comment	
Family	IEC	Version	1.0	User-defined ID	IEC_TMR

Name	Data type	Start value	Retain
▼ Static			
PT	Time	T#0ms	False
ET	Time	T#0ms	False
IN	Bool	false	False
Q	Bool	false	False






































PLC_1 [CPU 1214C DC/DC/DC]














































Technology objects

This folder is empty.

PLC_1 [CPU 1214C DC/DC/DC] / PLC tags / Default tag table [86]

PLC tags

PLC tags				
	Name	Data type	Address	Retain
	mdiWritevalues	Bool	%M2.0	False
	qsenttocamerapermissionOK	Int	%MW10	False
	x	DWord	%MD60	False
	y	DWord	%MD70	False
	theta	DWord	%MD80	False
	aiRZVanalog1	Word	%IW100	False
	aiRZVanalog2	Word	%IW102	False
	diConveyorDriverOK	Bool	%IO.0	False
	diEmergencyOK	Bool	%IO.1	False
	diDoorSwitchOK	Bool	%IO.2	False
	diRobothandPartsensor	Bool	%IO.3	False
	diConveyorLoaded	Bool	%IO.4	False
	diConveyorFinalstop	Bool	%IO.5	False
	diAutoStartButton	Bool	%IO.6	False
	diAutoStopButton	Bool	%IO.7	False
	diResetButon	Bool	%I1.0	False
	diRZV1	Bool	%I1.1	False
	diRZV2	Bool	%I1.2	False
	diRZV3	Bool	%I1.3	False
	diRZV4	Bool	%I1.4	False
	diRZV5	Bool	%I1.5	False
	qLightningLeds	Bool	%Q0.0	False
	q220vAC_RZV_RELAY	Bool	%Q0.1	False
	qLed_Green	Bool	%Q0.2	False
	qLed_Red	Bool	%Q0.3	False
	qConveyorDriverRESET	Bool	%Q0.4	False
	qAutostartbuttonlamp	Bool	%Q0.5	False
	qRZV1	Bool	%Q0.6	False
	qConveyorDriverSTART	Bool	%Q0.7	False
	qRZV2	Bool	%Q1.0	False
	qRobotMagnetSTART	Bool	%Q1.1	False
	buttoncontrols1	Bool	%M6.0	False
	buttoncontrols2	Bool	%M8.0	False
	buttoncontrols3	Bool	%M10.0	False
	mSafetyOK	Bool	%M16.0	False
	Tag_4	Bool	%M20.0	False
	diCameraConnectionStatus	Bool	%M24.0	False

Totally Integrated Automation Portal																																																																																				
	<table><tr><th></th><th>Name</th><th>Data type</th><th>Address</th><th>Retain</th></tr><tr><td></td><td>mProductonconveyor</td><td>Int</td><td>%MW24</td><td>False</td></tr><tr><td></td><td>ptriggcounter</td><td>Bool</td><td>%M30.0</td><td>False</td></tr><tr><td></td><td>mcounterreset</td><td>Bool</td><td>%M32.0</td><td>False</td></tr><tr><td></td><td>counterZERO</td><td>Bool</td><td>%M33.0</td><td>False</td></tr><tr><td></td><td>mGeneralAlarm_RED</td><td>Bool</td><td>%M33.1</td><td>False</td></tr><tr><td></td><td>mmpptomainptrig</td><td>Bool</td><td>%M33.2</td><td>False</td></tr><tr><td></td><td>mHMIRobotGOhome</td><td>Bool</td><td>%M33.3</td><td>False</td></tr><tr><td></td><td>mProductonBOX</td><td>Int</td><td>%MW26</td><td>False</td></tr><tr><td></td><td>mcounterreset_box</td><td>Bool</td><td>%M32.1</td><td>False</td></tr><tr><td></td><td>mHMIResetButton</td><td>Bool</td><td>%M2.5</td><td>False</td></tr><tr><td></td><td>mProductonBOXSWAPPED</td><td>Int</td><td>%MW0</td><td>False</td></tr><tr><td></td><td>mRobotControllerRestart</td><td>Bool</td><td>%M2.1</td><td>False</td></tr><tr><td></td><td>CameraConnectionStatus</td><td>DWord</td><td>%MD90</td><td>False</td></tr><tr><td></td><td>mCameraCONNECTIONOK</td><td>Bool</td><td>%M3.0</td><td>False</td></tr><tr><td></td><td>hmiLEDBUTTON</td><td>Bool</td><td>%M2.3</td><td>False</td></tr></table>					Name	Data type	Address	Retain		mProductonconveyor	Int	%MW24	False		ptriggcounter	Bool	%M30.0	False		mcounterreset	Bool	%M32.0	False		counterZERO	Bool	%M33.0	False		mGeneralAlarm_RED	Bool	%M33.1	False		mmpptomainptrig	Bool	%M33.2	False		mHMIRobotGOhome	Bool	%M33.3	False		mProductonBOX	Int	%MW26	False		mcounterreset_box	Bool	%M32.1	False		mHMIResetButton	Bool	%M2.5	False		mProductonBOXSWAPPED	Int	%MW0	False		mRobotControllerRestart	Bool	%M2.1	False		CameraConnectionStatus	DWord	%MD90	False		mCameraCONNECTIONOK	Bool	%M3.0	False		hmiLEDBUTTON	Bool	%M2.3	False
	Name	Data type	Address	Retain																																																																																
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	mCameraCONNECTIONOK	Bool	%M3.0	False																																																																																
	hmiLEDBUTTON	Bool	%M2.3	False																																																																																

















PLC_1 [CPU 1214C DC/DC/DC] / PLC tags / Default tag table [86]

User constants

User constants		
Name	Data type	Value

PLC_1 [CPU 1214C DC/DC/DC] / PLC tags / iRobot2PLC [16]






































PLC tags

PLC tags				
	Name	Data type	Address	Retain
	iPN_Q_000_MotorOffState	Bool	%I68.0	False
	iPN_Q_001_MotorOnState	Bool	%I68.1	False
	iPN_Q_002_RunchainOk	Bool	%I68.2	False
	iPN_Q_003_AutoON	Bool	%I68.3	False
	iPN_Q_004_TaskExecuting	Bool	%I68.4	False
	iPN_Q_005_RobotReadyHOME	Bool	%I68.5	False
	iPN_Q_006_MagnetON	Bool	%I68.6	False
	iPN_Q_007_WriteAccess	Bool	%I68.7	False
	iPN_Q_008_EmStop	Bool	%I69.0	False
	iPN_Q_009_Error	Bool	%I69.1	False
	iPN_Q_010_RegainDistError	Bool	%I69.2	False
	iPN_Q_011_PFEError	Bool	%I69.3	False
	iPN_Q_012_ProdExecError	Bool	%I69.4	False
	iPN_Q_013_TemperatureWarning	Bool	%I69.5	False
	iPN_Q_014_CPUFannotRunning	Bool	%I69.6	False
	iPN_Q_015_SmbBatteryChargeLow	Bool	%I69.7	False

Totally Integrated Automation Portal											
<div>PLC_1 [CPU 1214C DC/DC/DC] / PLC tags / iRobot2PLC [16]</div> <div>User constants</div> <table border="1"><thead><tr><th colspan="3">User constants</th></tr><tr><th>Name</th><th>Data type</th><th>Value</th></tr></thead><tbody><tr><td colspan="3"></td></tr></tbody></table>			User constants			Name	Data type	Value			
User constants											
Name	Data type	Value									

PLC_1 [CPU 1214C DC/DC/DC] / PLC tags / qPLC2Robot [68]

PLC tags

PLC tags				
	Name	Data type	Address	Retain
	qPN_I_000_MotorOff	Bool	%Q132.0	False
	qPN_I_001_MotorON	Bool	%Q132.1	False
	qPN_I_002_MotonStart	Bool	%Q132.2	False
	qPN_I_003_QuickStop	Bool	%Q132.3	False
	qPN_I_004_Start	Bool	%Q132.4	False
	qPN_I_005_StartMain	Bool	%Q132.5	False
	qPN_I_006_Stop	Bool	%Q132.6	False
	qPN_I_007_StopCycle	Bool	%Q132.7	False
	qPN_I_008_ResetEstop	Bool	%Q133.0	False
	qPN_I_009_ResetError	Bool	%Q133.1	False
	qPN_I_010_SYSReset	Bool	%Q133.2	False
	qPN_I_011_WriteAccess	Bool	%Q133.3	False
	qPN_I_012_PPtoMain	Bool	%Q133.4	False
	qPN_I_013_RobotCanStart	Bool	%Q133.5	False
	qPN_I_014_Reset_Counter	Bool	%Q133.6	False
	qPN_I_015_RobotHandSensor	Bool	%Q133.7	False
	qPN_I_016_NeedHoming	Bool	%Q134.0	False
	17	Bool	%Q134.1	False
	18	Bool	%Q134.2	False
	19	Bool	%Q134.3	False
	20	Bool	%Q134.4	False
	21	Bool	%Q134.5	False
	22	Bool	%Q134.6	False
	23	Bool	%Q134.7	False
	24	Bool	%Q135.0	False
	25	Bool	%Q135.1	False
	26	Bool	%Q135.2	False
	27	Bool	%Q135.3	False
	28	Bool	%Q135.4	False
	29	Bool	%Q135.5	False
	30	Bool	%Q135.6	False
	31	Bool	%Q135.7	False
	32	Bool	%Q136.0	False
	33	Bool	%Q136.1	False
	34	Bool	%Q136.2	False
	35	Bool	%Q136.3	False
	36	Bool	%Q136.4	False

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PLC_1 [CPU 1214C DC/DC/DC] / PLC tags / qPLC2Robot [68]

User constants

User constants		
Name	Data type	Value

Totally Integrated Automation Portal		
<div>PLC_1 [CPU 1214C DC/DC/DC] / PLC data types</div> <div>System data types</div> <div>This folder is empty.</div>		

PLC_1 [CPU 1214C DC/DC/DC] / Watch and force tables

Force table

Name	Address	Display format	Force value
"qsenttocamerapermissionOK"	%MW10	DEC+/-	1
"qRobotMagnetSTART":P	%Q1.1:P	Bool	

PLC_1 [CPU 1214C DC/DC/DC] / Watch and force tables

Watch table_1

Name	Address	Display format	Modify value
"diAutoStopButton"	%I0.7	Bool	
"diEmergencyOK"	%I0.1	Bool	
"diDoorSwitchOK"	%I0.2	Bool	
"diRobothandPartsensor"	%I0.3	Bool	
"diConveyorLoaded"	%I0.4	Bool	
"diConveyorFinalstop"	%I0.5	Bool	
"diAutoStartButton"	%I0.6	Bool	
"diAutoStopButton"	%I0.7	Bool	
"diResetButon"	%I1.0	Bool	
"diRZV1"	%I1.1	Bool	
"diRZV2"	%I1.2	Bool	
"diRZV3"	%I1.3	Bool	
"diRZV4"	%I1.4	Bool	
"diRZV5"	%I1.5	Bool	
"qConveyorDriverSTART"	%Q0.7	Bool	TRUE
"diCameraConnectionStatus"	%M24.0	Bool	
"qRobotMagnetSTART"	%Q1.1	Bool	TRUE

PLC_1 [CPU 1214C DC/DC/DC]

Traces

Name

Totally Integrated Automation Portal		
<div>PLC_1 [CPU 1214C DC/DC/DC] / Traces</div> <div>Measurements</div> <div>This folder is empty.</div>		

PLC_1 [CPU 1214C DC/DC/DC] / Traces

Combined measurements

Name

PLC_1 [CPU 1214C DC/DC/DC]

PLC alarm text lists

This folder is empty.

PLC_1 [CPU 1214C DC/DC/DC] / Local modules

PLC_1 [CPU 1214C DC/DC/DC]

PLC_1

Project information

Name	PLC_1	Author	Mali
Comment		Slot	1
Rack	0		

Catalog information

Short designation	CPU 1214C DC/DC/DC	Description	Work memory 75 KB; 24VDC power supply with DI14 x 24VDC SINK/ SOURCE, DQ10 x 24VDC and AI2 on board; 6 high-speed counters and 4 pulse outputs on board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 8 signal modules for I/O expansion; 0.04 ms/1000 instructions; PROFINET interface for programming, HMI and PLC-to-PLC communication
Article number	6ES7 214-1AG40-0XB0	Firmware version	V4.0

Connection resources

PG communication:	1	OP communication:	1
S7 basic communication:	0	S7 communication:	0
Maximum number of S7 connection resources:	38		

Overview of addresses\Overview of addresses\Overview of addresses

Inputs	True	Outputs	True
Address gaps	False	Slot	True

Totally Integrated Automation Portal										
Type	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO system	Rack	Slot
I	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 1
O	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 1
I	64	67	AI 2_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 2
I	1000	1003	HSC_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 16
I	1004	1007	HSC_2	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 17
I	1008	1011	HSC_3	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 18
I	1012	1015	HSC_4	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 19
I	1016	1019	HSC_5	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 20
I	1020	1023	HSC_6	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 21
O	1000	1001	Pulse_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 32
O	1002	1003	Pulse_2	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 33
O	1004	1005	Pulse_3	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 34
O	1006	1007	Pulse_4	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 35
I	68	131	DI 64 bytes_1	Automatic update	RobotBasicIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	1
O	132	195	DO 64 bytes_1	Automatic update	RobotBasicIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	2

Totally Integrated Automation Portal																				
<div>PLC_1 [CPU 1214C DC/DC/DC] / Distributed I/O</div> <div>PROFINET IO-System (100): PN/IE_1</div> <div><div>PROFINET IO-System</div><div><div>General</div><table><tr><td>IO controller:</td><td>PLC_1</td><td>Name:</td><td>PROFINET IO-System</td></tr><tr><td>Number:</td><td>100</td><td>Use name as extension for the PROFINET device name.</td><td>False</td></tr></table><div>Hardware identifier</div><table><tr><td>Hardware identifier</td><td>269</td></tr></table><div>Overview of addresses\Overview of addresses\Overview of addresses</div><table><tr><td>Inputs</td><td>True</td><td>Outputs</td><td>True</td></tr><tr><td>Address gaps</td><td>False</td><td>Slot</td><td>True</td></tr></table></div></div>			IO controller:	PLC_1	Name:	PROFINET IO-System	Number:	100	Use name as extension for the PROFINET device name.	False	Hardware identifier	269	Inputs	True	Outputs	True	Address gaps	False	Slot	True
IO controller:	PLC_1	Name:	PROFINET IO-System																	
Number:	100	Use name as extension for the PROFINET device name.	False																	
Hardware identifier	269																			
Inputs	True	Outputs	True																	
Address gaps	False	Slot	True																	

Totally Integrated Automation Portal										
Type	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO system	Rack	Slot
I	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 1
O	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 1
I	64	67	AI 2_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 2
I	1000	1003	HSC_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 16
I	1004	1007	HSC_2	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 17
I	1008	1011	HSC_3	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 18
I	1012	1015	HSC_4	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 19
I	1016	1019	HSC_5	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 20
I	1020	1023	HSC_6	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	4 Bytes	-	0	1 21
O	1000	1001	Pulse_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 32
O	1002	1003	Pulse_2	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 33
O	1004	1005	Pulse_3	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 34
O	1006	1007	Pulse_4	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 35
I	68	131	DI 64 bytes_1	Automatic update	RobotBasicIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	1
O	132	195	DO 64 bytes_1	Automatic update	RobotBasicIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	2

PLC_1 [CPU 1214C DC/DC/DC] / Distributed I/O /
PROFINET IO-System (100): PN/IE_1

RobotBasicIO [BASIC V1.4]

RobotBasicIO			
General			
Name	RobotBasicIO	Author	Mali
Comment		Rack	0
Slot	0		
General\Catalog information			
Short designation	BASIC V1.4	Description	The robot controller's internal PROFI- NET IO device.
Article number	888-3	Firmware version	V1.4
HwVersion	1	GSD file	gsdml-v2.33-abb-robotics-robot-de- vice-20180814.xml
PROFINET interface [X1]\General			
Name	PROFINET Interface	Comment	
PROFINET interface [X1]\Network Port [X1 P1]\General			
PositionNumber	1	Name	Network Port
Comment			