Automation Portal			
PLC_1 [CPU 121	4C DC/DC/DC]		
PLC_1			
Project information	la a	II •	1
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 communi- cation; 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 communica- tion:		S7 communication:	0
Maximum number of S7 connection resour- ces:			
	s\Overview of addresses\Overview of	addresses	
Inputs	True	Outputs	True
Address gaps	False	Slot	True

Totally I	nteg	grated	l
Automa	tion	Porta	١

Туре	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	[CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	11
0	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	11
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
0	1000	1001	Pulse_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 32
0	1002	1003	Pulse_2	Automatic update		-	2 Bytes	-	0	1 33
0	1004	1005	Pulse_3	Automatic update		-	2 Bytes	-	0	1 34
0	1006	1007	Pulse_4	Automatic update		-	2 Bytes	-	0	1 35
I	68	131	DI 64 bytes_1	Automatic update	RobotBasi- clO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	1
0	132	195	DO 64 bytes_1	Automatic update	RobotBasi- cIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	2

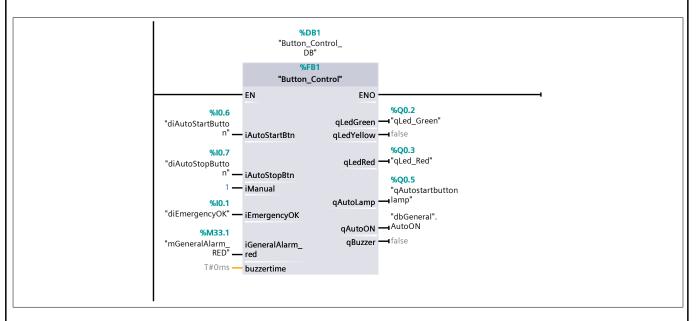
|--|

Main [OB1]

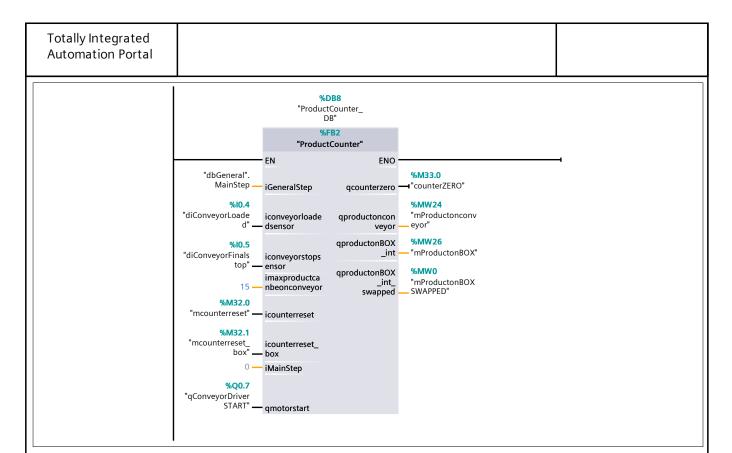
Main Properties							
General							
Name	Main	Number	1	Туре	OB		
Language	LAD	Numbering	Automatic				
Information	Information						
Title	"Main Program Sweep (Cycle)"	Author		Comment			
Family		Version	0.1	User-defined ID			

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

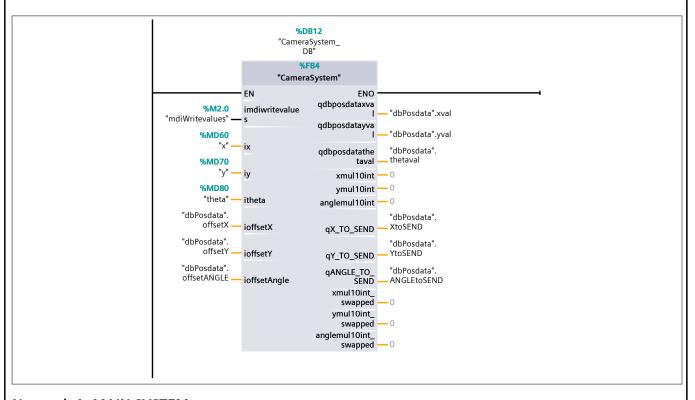
Network 1: BUTTON CONTROL



Network 2: PRODUCT ON CONVEYOR



Network 3: CAMERA SYSTEM

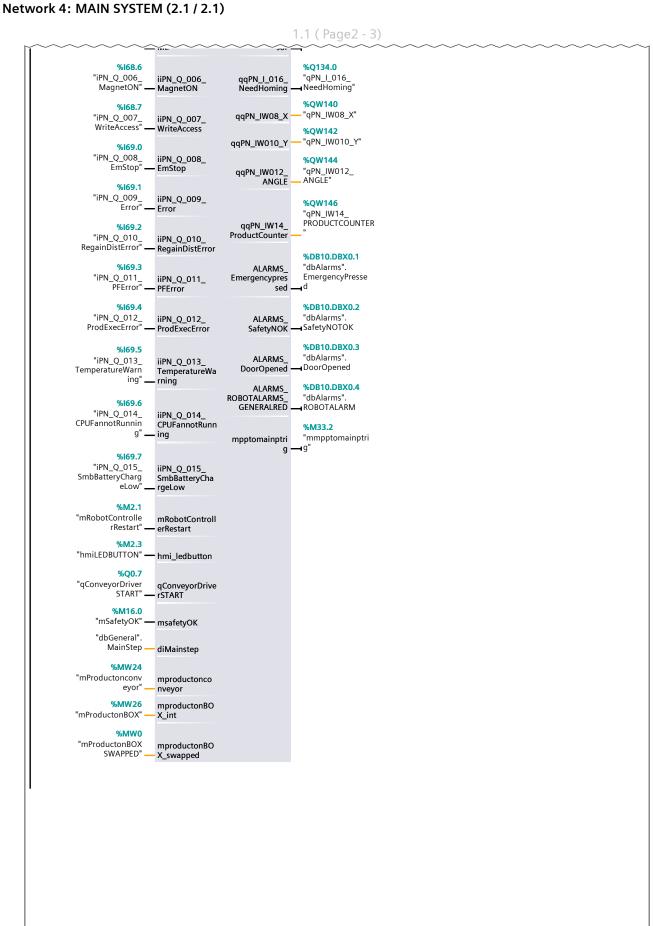


Network 4: MAIN SYSTEM

Totally Integrated Automation Portal

Network 4: MAIN SYSTEM (1.1 / 2.1)





Totally Integrated Automation Portal			
Network 5: bu	•		
	%MD90 "CameraConnecti onStatus" == Real 1.0	%M3.0 "mCameraCONNI CTIONOK"	<u>-</u>
	%MD90 "CameraConnecti onStatus" == == Real 0.0	%M3.0 "mCameraCONNI CTIONOK" 	
	I		

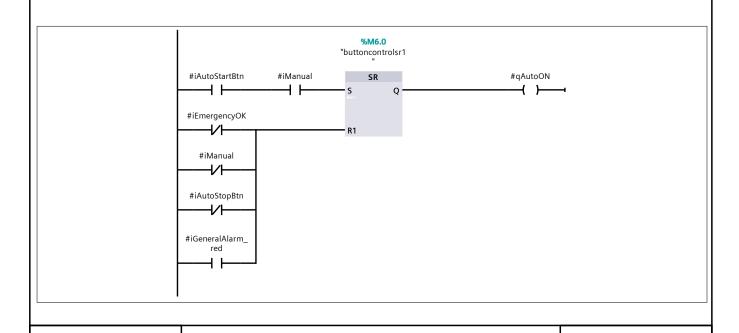
Totally Integrated Automation Portal

Button_Control [FB1]

Button_Control Properties							
General							
Name	Button_Control	Number	1	Туре	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:



**M8.0 **buttoncontrolsr2 #iEmergencyOK #iAutoStopBtn #iGeneralAlarm red #iAutoStartBtn #iManual **Network 3:	
#iEmergencyOK SR #qLedRed #iAutoStopBtn #stopPressed #iGeneralAlarm_red #iAutoStartBtn #iManual	
#iGeneralAlarm_red #iAutoStartBtn #iManual	
#iManual	
Network 3:	
%M10.0	
"buttoncontrolsr3 #iManual SR #qLedYellow S Q #iEmergencyOK R1	
#iAutoStopBtn #iAutoStartBtn #iAutoStartBtn	
Network 4:	
#qAutoON #stopPressed #qAutoLamp	
Network 5:	

Totally Integrated Automation Portal		
	#iEmergencyOK Time #qBuzzer #buzzertime PT ET T#0ms	-
Network 7:		
		-

Totally Int Automati	tegrated on Portal						
dbPosda	CPU 1214C DC/[ta [DB3])C/DC] /	Program	n blocks			
dbPosdata P	roperties						
General							
Name	dbPosdata	Number	3	.•	Туре	DB	
anguage	DB	Numberin	g Automa	tic			
nformation							
Γitle - ·		Author	0.1		Comment		
Family		Version	0.1		User-define ID	ed	
Name		Da	ta type	Start val	ue		Retain
▼ Static							
xval		Rea	 al	0.0			False
yval		Rea	al	0.0	0.0		False
thetav	al	Rea	al	0.0	0.0		False
offset)	X	Rea	al	0.0			False
offset\	Y	Rea	al	0.0	0.0		False
offset/	ANGLE	Rea	al	0.0			False
XtoSEI	ND	Int		0			False
		Int		0			False
YtoSEI				0			False

Totally Int Automation						
	CPU 1214C DC/ Control_DB [DB1]	DC/DC] / F	Progran	n blocks		
Button Cont	trol_DB Properties					
General						
Name	Button_Control_DB	Number	1		Туре	DB
Language	DB	Numbering	Automa	tic		
Information						
Title		Author Version	0.1		Comment User-defined	
Family		version	0.1		ID ID	
Name		Data	type	Start valu	e	Retain
▼ Input						
iAutoS	itartBtn	Bool		false		False
iAutoS	itopBtn	Bool		false		False
iManu	al	Bool		false		False
iEmerg	gencyOK	Bool		false		False
iGener	ralAlarm_red	Bool		false		False
buzzer	rtime	Time		T#0ms	‡0ms	
Output						
qLedG	reen	Bool		false		False
qLedY		Bool		false		False
qLedR		Bool		false		False
qAutol	Lamp	Bool		false		False
qAuto	<u> </u>	Bool		false		False
qBuzze	er	Bool		false		False
InOut						
▼ Static						

dbGeneral					
abacileiai	Number	4		Туре	DB
DB	Numbering	Automat	tic		
	Author			Commont	
	Version	0.1		User-defined	
				ID	
	Data	type	Start valu	ıe	Retain
tep	Int		0		False
					False False
		Author Version Data Data Tep Int N Bool	Author Version 0.1 Data type Tep Int N Bool	Author Version 0.1 Data type Start value Tep Int 0 N Bool false	Author Version Data type Start value Tep Int Bool False

Totally Integrated Automation Portal		
---	--	--

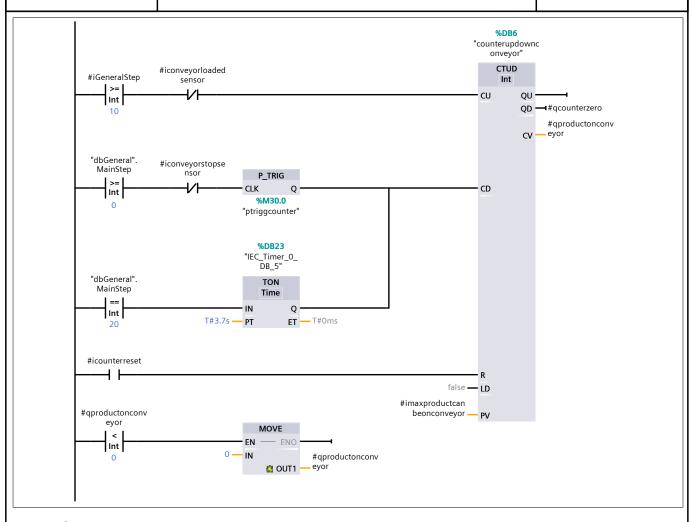
ProductCounter [FB2]

ProductCour	nter Properties				
General					
Name	ProductCounter	Number	2	Туре	FB
Language	LAD	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined	
				ID	

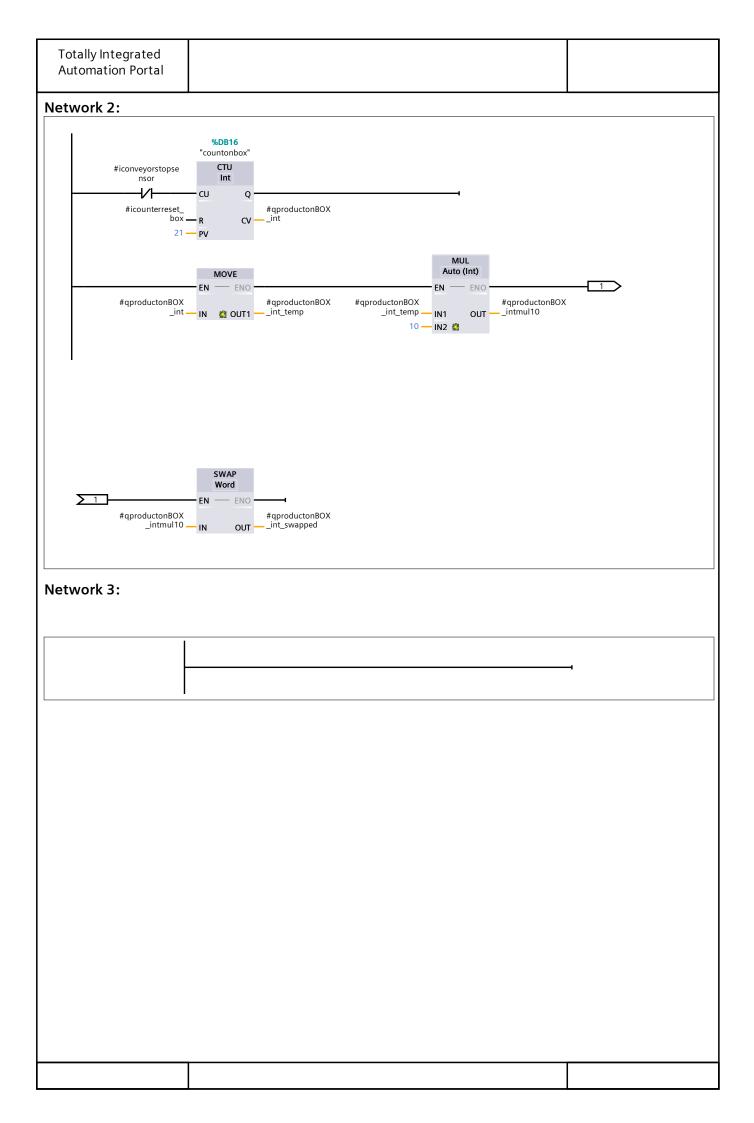
ame	Data type	Default value	Retain
▼ Input			
iGeneralStep	Int	0	Non-retain
iconveyor loaded sensor	Bool	false	Non-retain
iconveyorstopsensor	Bool	false	Non-retain
imaxproductcanbeonconveyor	Int	0	Non-retain
icounterreset	Bool	false	Non-retain
icounterreset_box	Bool	false	Non-retain
iMainStep	Int	0	Non-retain
▼ 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:

Totally Integrated Automation Portal



Network 2:



Totally Integrated Automation Portal		
PLC_1 [CPU 121	4C DC/DC/DC] / Program blocks	
ProductCounter [DRAU AC	

ProductCoun	ter_DB Properties				
General					
Name	ProductCounter_DB	Number	8	Туре	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
iconveyor loaded sensor	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
qproducton BOX_int_swapped	Int	0	False
▼ InOut			
qmotorstart	Bool	false	False
Static			

dbAlarms [DB10]

dbAlarms Pro	operties				
General					
Name	dbAlarms	Number	10	Туре	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined	
				ID	

ame	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

tally Integrated	
tomation Portal	

MainSystem [FB3]

MainSystem	Properties				
General					
Name	MainSystem	Number	3	Туре	FB
Language	LAD	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined	
				ID	

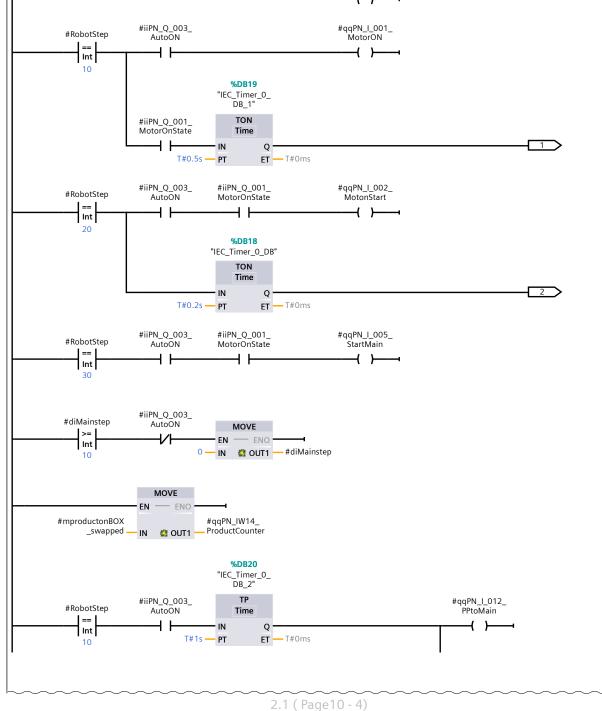
me	Data type	Default value	Retain
Input			
diConveyorDriverOK	Bool	false	Non-retain
mCameraconnectionOK	Bool	false	Non-retain
diEmergencyOK	Bool	false	Non-retain
diDoorSwitchOK	Bool	false	Non-retain
diRobothandPartsensor	Bool	false	Non-retain
diConveyorLoaded	Bool	false	Non-retain
diConveyorFinalstop	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
iHMİrobotgoHome	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 PFError	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 Integ	grated
Automation	Portal

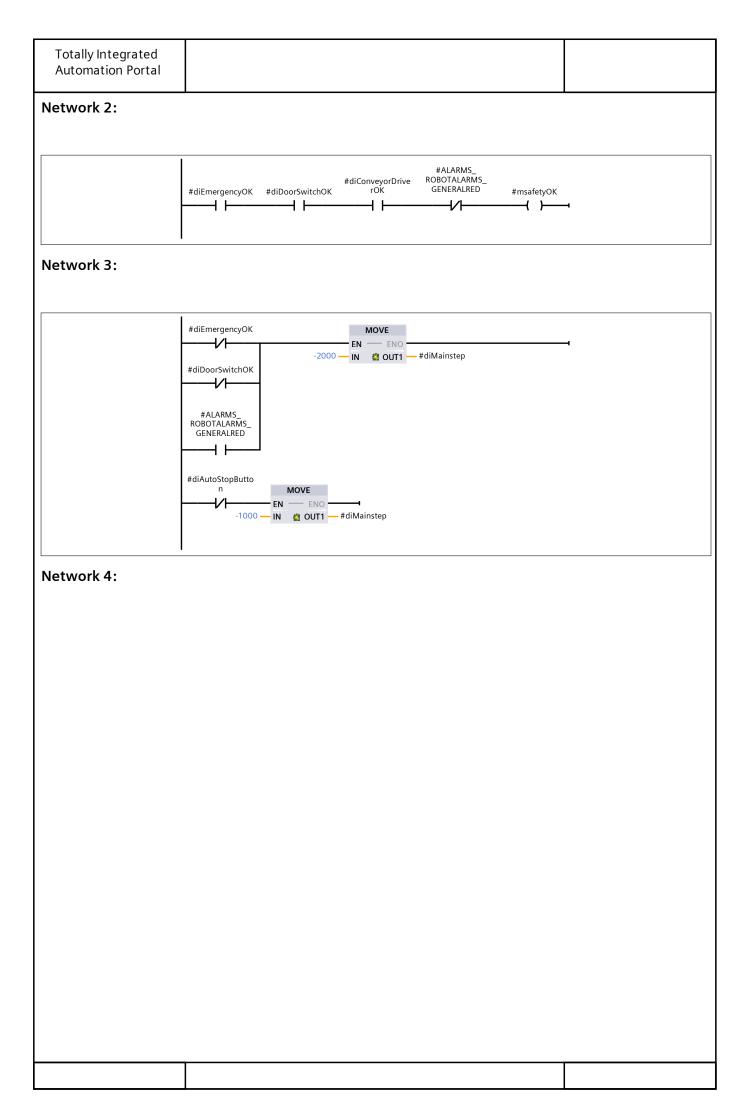
Name	Data type	Default value	Retain
qqPN_I_000_MotorOff	Bool	false	Non-retain
qqPN_I_001_MotorON	Bool	false	Non-retain
qqPN_I_002_MotonStart	Bool	false	Non-retain
qqPN_I_003_QuickStop	Bool	false	Non-retain
qqPN_I_004_Start	Bool	false	Non-retain
qqPN_I_005_StartMain	Bool	false	Non-retain
qqPN_I_006_Stop	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

Totally Integrated **Automation Portal** Network 1: ROBOT (1.1 / 2.1) #diMainstep MOVE EN - ENO Int 10 — IN 🚜 OUT1 — #RobotStep 10 #diMainstep MOVE <= Int EN - ENO #qqPN_I_003_ QuickStop ()-#iiPN_Q_003_ AutoON #qqPN_I_001_ MotorON #RobotStep == Int ()-4 H 10 %DB19 "IEC_Timer_0_ DB_1" TON #iiPN_Q_001_ MotorOnState Time IN Q T#0.5s — PT ET — T#0ms #iiPN_Q_003_ AutoON #iiPN_Q_001_ MotorOnState #qqPN_I_002_ MotonStart #RobotStep == Int ()-4 F 20 %DB18



Totally Integrated **Automation Portal** Network 1: ROBOT (2.1 / 2.1) 1.1 (Page 10 - 3) **%DB21**"IEC_Timer_0_
DB_3" #iiPN_Q_003_ AutoON #iiPN_Q_001_ MotorOnState #RobotStep Time == Int $\dashv \vdash$ $\dashv \vdash$ - IN Q-T#1s — **PT** ET — T#0ms 20 **%DB24**"IEC_Timer_0_
DB_6" #diResetButon Time \dashv \vdash - IN Q-T#1s — **PT** ET — T#0ms #mHMIResetbutto EN - ENO 20 — IN 🚜 OUT1 — #RobotStep 2 EN - ENO -30 — IN 🚜 OUT1 — #RobotStep



Totally Integrated **Automation Portal** #diMainstep == | Int | EN - ENO 0 — IN 🚜 OUT1 — #diMainstep #diMainstep | == | Int | 10 #diMainstep == | Int | 20 #diMainstep | == | Int | #diMainstep == Int 40 #diMainstep == Int 50 #diMainstep == | Int #diMainstep == | Int | -2000 Network 5: oto basılınca 10 a geç "dbGeneral". AutoON #iiPN_Q_003_ AutoON #mCameraconne #diMainstep ctionOK #msafetyOK MOVE ==| Int 4 F **⊣** ⊢ EN - ENO 10 — IN 🙇 OUT1 — #diMainstep Network 6: ürün gelince 20 ye geç


```
#diConveyorFinal
#diMainstep
               #msafetyOK
                                  stop
                                              MOVE
                                              EN - ENO
  Int
                                         30 — IN 🚜 OUT1 — #diMainstep
   20
                             "conveyorfreetim
e"
                                  TON
             #qConveyorDriver
                 STÁRT
                              IN
                                        Q
                                                                              EN - ENO
                      T#3.7s -
                                       ET — T#0ms
                                                                         10 — IN 🚜 OUT1 — #diMainstep
             #mproductonBOX
                  _int
                                              MOVE
                                              EN - ENO-
                                         10 — IN 😃 OUT1 — #diMainstep
                   20
```

Network 8: ölçmek için diğer adıma geç

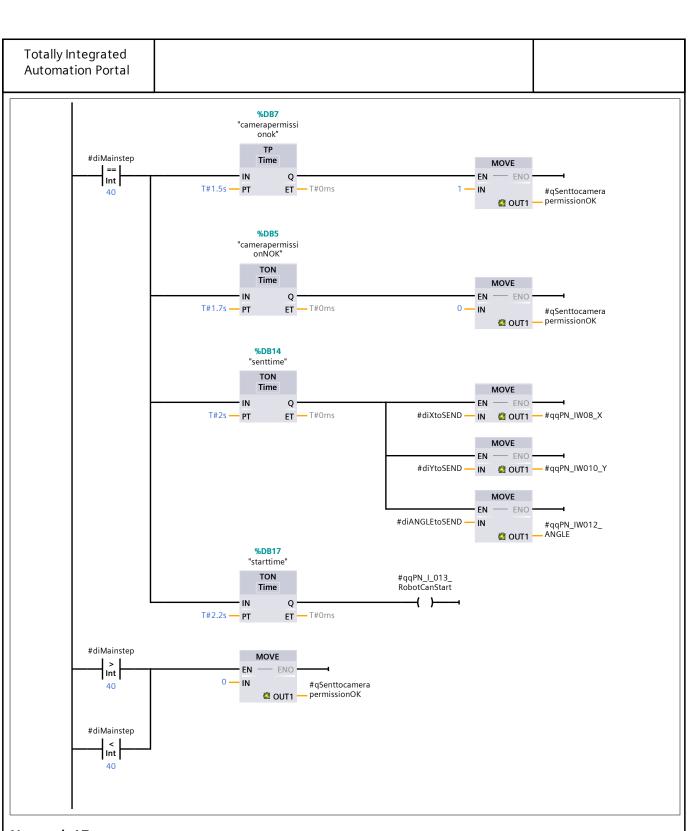
Network 8: ölçmek için diğer adıma geç

```
%DB15
                                                                     "30to40"
                                                                      TON
                               #diConveyorFinal
                                                 #iiPN_Q_005_
#diMainstep
                                                {\sf RobotReadyHOME}
                 #msafetyOK
                                     stop
                                                                            Q
   Int
                                                                           ET — T#0ms
                                                          T#0.1s — PT
    30
               MOVE
               EN - ENO
          40 — IN 👸 OUT1 — #diMainstep
```

Network 9: değerler gonderildi ve sensor tekrar gördü ürün gitti

Totally Integrated Automation Portal		
Network 10:		
#diMai		ер
	#mproductoncon veyor == MOVE EN ENO 0 10 IN OUT1 #diMainst	ер
Network 11:		
Network 12: ACİL VE	STOP	
#diMai	EN ENO	
#diMai	EN EN MOVE	ep
Network 13:		
Network 14: yüklend	iğinde konveyör çalışsın	

Totally Integrated Automation Portal #mproductonBOX _int #diConveyorFinal stop #iiPN_Q_005_ RobotReadyHOME #qConveyorDriver START #diMainstep #msafetyOK -Int == Int ++Network 15: konveyör dur #qConveyorDriver START #diMainstep #msafetyOK == Int 4 F -(R)-30 #diMainstep == | Int | 40 #qLightningLeds Network 16: ölç ve değerleri gönder



Network 17:

```
#diRobothandPart
sensor

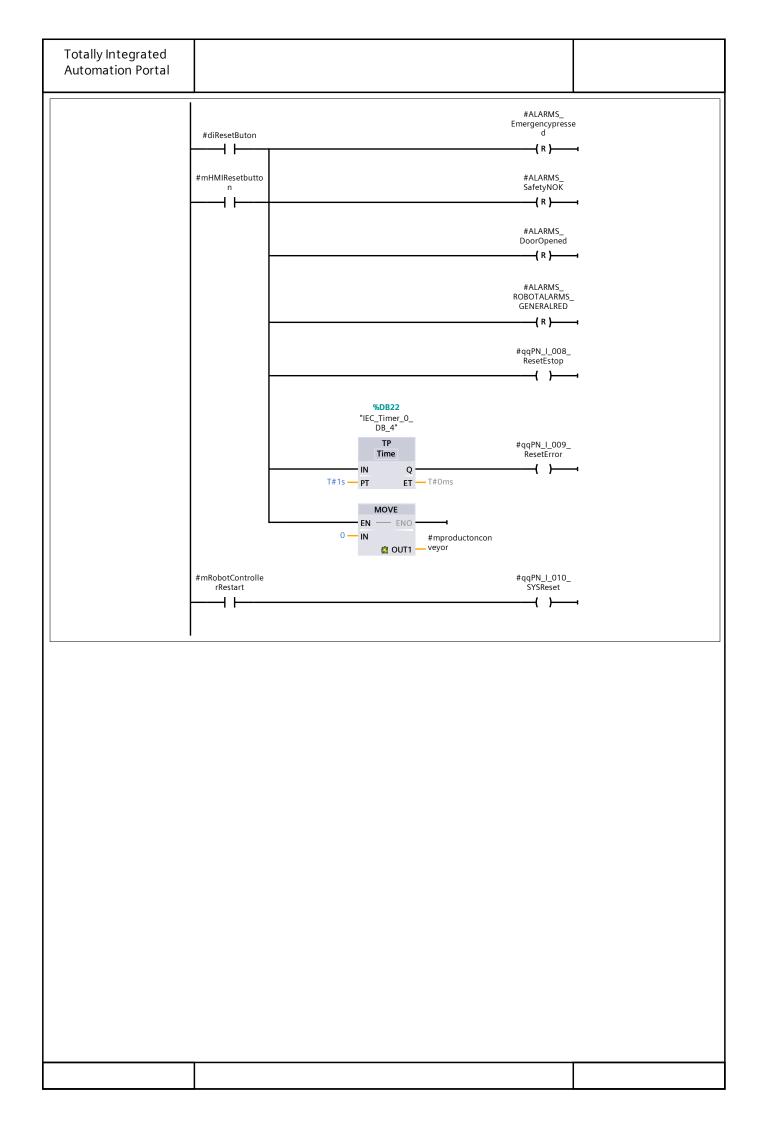
| Hoperature | #qqPN_I_015_
RobotHandSensor
| HiPN_Q_006_
#qRobotMagnetST
ART
| Hoperature | #qqPN_I_015_
RobotHandSensor
| HqRobotMagnetST
ART
```

Totally Integrated
Automation Portal

Network 18: ALARMS

```
#ALARMS_
Emergencypresse
d
   #diMainstep
        | == |
Int |
         -2000
                                                                                                                              #ALARMS_
SafetyNOK
   #msafetyOK
         <del>-</del>1/}
                                                                                                                                  <del>(</del> )-
                                                                                                                            #ALARMS_
DoorOpened
#diDoorSwitchOK
        -|∕|-
                                                                                                                                 -( )-
                                                                                                                          #ALARMS_
ROBOTALARMS_
GENERALRED
  #iiPN_Q_009_
Error
         \dashv \vdash
                                                                                                                                  #iiPN_Q_010_
RegainDistError
         \dashv \vdash
  #iiPN_Q_011_
PFError
        \dashv \vdash
  #iiPN_Q_012_
ProdExecError
          #iiPN_Q_013_
TemperatureWarn
ing
#iiPN_Q_014_
CPUFannotRunnin
          g
#iiPN_Q_015_
SmbBatteryCharg
eLow
         \dashv \vdash
```

Network 19: RESETPressed



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	

et	Data type	Start value	Retain
nput			
diConveyorDriverOK	Bool	false	False
mCameraconnectionOK	Bool	false	False
diEmergencyOK	Bool	false	False
diDoorSwitchOK	Bool	false	False
di Robothand Partsensor	Bool	false	False
diConveyorLoaded	Bool	false	False
diConveyor Final stop	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
iHMİrobotgoHome	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_CPUFannotRunning	Bool	false	False
iiPN_Q_015_SmbBatteryChargeLow	Bool	false	False
mRobotControllerRestart	Bool	false	False
hmi_ledbutton	Bool	false	False
utput			
qLightningLeds	Bool	false	False
qConveyorDriverRESET	Bool	false	False
qRobotMagnetSTART	Bool	false	False
qSenttocamera permission OK	Int	0	False

Totally I	nteg	ırated
Automa	tion	Portal

me	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

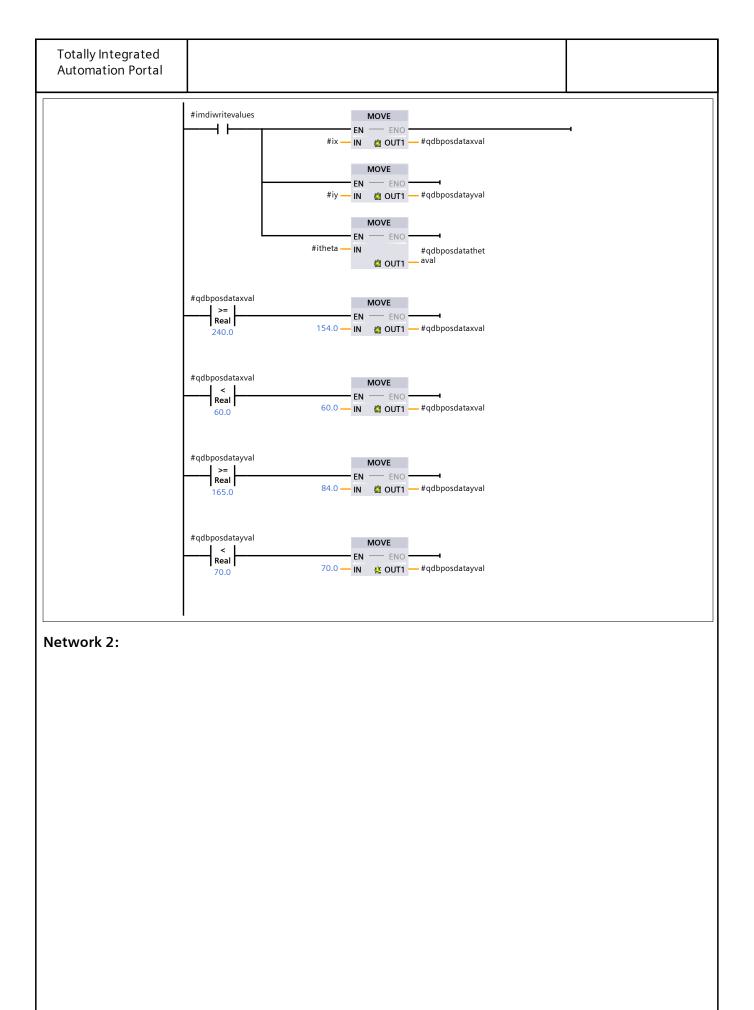
|--|

CameraSystem [FB4]

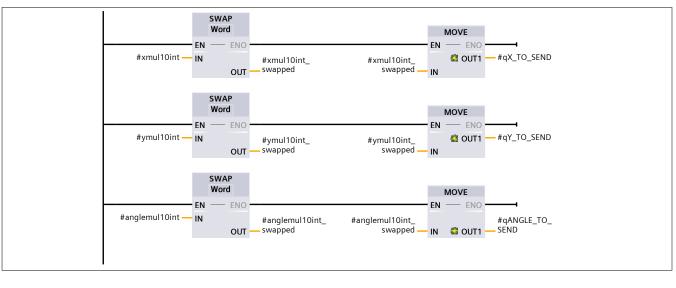
CameraSyste	em Properties				
General					
Name	CameraSystem	Number	4	Type	FB
Language	LAD	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined	
				ID	

me	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
anglemul 10 int	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
xmul 10 int_swapped	Int	0	Non-retain
ymul 10 int_swapped	Int	0	Non-retain
anglemul 10 int_swapped	Int	0	Non-retain
InOut			
Static			
Temp			
xmul10real	Real		
ymul10real	Real		
anglemul 10 real	Real		
addedx	Real		
addedy	Real		
addedangle	Real		
Constant			

Network 1:



Totally Integrated **Automation Portal** Network 2: ADD MUL Auto (Real) Auto (Real) EN - ENO EN - ENO #qdbposdataxval — IN1 OUT — #addedx #addedx — - IN1 OUT — #xmul10real #ioffsetX — IN2 😃 10.0 — IN2 😃 MUL Auto (Real) Auto (Real) #addedy — IN1 OUT — #ymul10real #qdbposdatayval — IN1 OUT — #addedy #ioffsetY — IN2 😃 10.0 — IN2 😃 ADD MUL Auto (Real) Auto (Real) EN - ENO - ENO - 3 OUT — #addedangle #addedangle — IN1 OUT — #anglemul10real #qdbposdatathet 10.0 — IN2 😃 aval — IN1 #ioffsetAngle — IN2 😃 CONV Real to Int $\sum_{i=1}^{n}$ - EN ENO -#xmul10real — IN OUT — #xmul10int CONV Real to Int ENO . #ymul10real — IN OUT — #ymul10int CONV Real to Int #anglemul10real — IN OUT — #anglemul10int Network 3: SWAP Word MOVE EN - ENO EN - ENO -OUT1 — #qX_TO_SEND #xmul10int — IN #xmul10int_ #xmul10int OUT — swapped swapped _ SWAP



|--|

CameraSystem_DB [DB12]

CameraSystem_DB Properties					
General					
Name	CameraSystem_DB	Number	12	Туре	DB
Language	DB	Numbering	Automatic		
Information					
Title		Author		Comment	
Family		Version	0.1	User-defined	
				ID	

ame	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
anglemul 10 int	Int	0	False
qX_TO_SEND	Int	0	False
qY_TO_SEND	Int	0	False
qANGLE_TO_SEND	Int	0	False
xmul 10 int_swapped	Int	0	False
ymul 10 int_swapped	Int	0	False
anglemul 10 int_swapped	Int	0	False
InOut			
Static			

Robot [DB13] Obot Properties				
eral dbRobot	Number	13	Туре	DB
guage DB	Numbering	Automatic	Туре	ОВ
rmation	A satis a sa		C - mana and	
ily	Author Version	0.1	Comment User-defined ID	1
ie	Data t	type	Start value	Retain
tatic	<u> </u>			e i
RECIEVE_SPARE	Struct Array[Bool	64199] of		False False
SEND	Struct			False
SEND_SPARE	Array[Bool	64199] of		False

Number 2								
Number 2	zzertimer	Properties						
Numbering Automatic Author Simatic Version 1.0 Comment User-defined ID Retain tatic PT Time T#0ms False ET Time T#0ms False IN Bool false	neral							
Author Simatic Comment User-defined IEC_TMR ID	me					Туре	DB	
Author Simatic Comment User-defined IEC_TMR	nguage .•		Numbering	Automatic				
Name	ormation e		Author	Cimatia		Commont		
e Data type Start value Retain tatic PT Time T#0ms False ET Time T#0ms False IN Bool false False		IEC					IEC TMP	
tatic Time T#0ms False ET Time T#0ms False IN Bool false False	iiiy	ilec	Version	1.0			ILC_TIVIN	
tatic Time T#0ms False ET Time T#0ms False IN Bool false False	ne		Data	tvpe	Start value	1	R	Retain
PT Time T#0ms False ET Time T#0ms False IN Bool false False	Static		Dutu	<i>J</i> F =				
ETTimeT#0msFalseINBoolfalseFalse			Time		T#0ms		F	alse
IN Bool false False								
			Bool		false		F	alse

nguage [formation le	counterupdownconveyo DB EC	Author Version Data t	6 Automatic Simatic 1.0		Type Comment User-defined	DB CNTR	
mguage [Inguage Inguage Inguage Inguage Inguage Inguage Inguage Inguage Inguing Inguin	DB	Author Version Data t	Automatic Simatic 1.0		Comment User-defined		
me Static CD R LD		Author Version Data t	Simatic 1.0		User-defined	CNTR	
me Static CU CD R LD	EC	Version Data t	1.0		User-defined	CNTR	
me Static CU CD R LD	EC	Version Data t	1.0		User-defined	CNTR	
Static CU CD R LD			type		ID	CIVIII	
CU CD R LD			ype	Start value			Retain
CD R LD							
R LD		Bool		false			True
LD		Bool		false			True
		Bool		false			True
\cap II		Bool		false			True
		Bool		false			True
QD		Bool		false			True
PV CV		Int Int		0			True True

amerap	ermissionok [DB7	']					
ameraperm	issionok Properties						
eneral							
ame	camerapermissionok	Number	7		Туре	DB	
nguage 	DB	Numbering	Automatic				
formation le		Author	Simatic		Comment		
e nily	IEC	Version	1.0		User-defined	IEC_TMR	
illiy	ill	Version	1.0		ID	ILC_TIVIK	
me	·	Data	type	Start value	<u> </u>	Re	tain
Static			71				
PT		Time		T#0ms		Fa	lse
ET		Time		T#0ms			lse
IN		Bool		false			lse
Q		Bool		false		Fa	lse

PT Time T#0ms Fal ET Time T#0ms Fal IN Bool false Fal	Number 5 Type DB Numbering Automatic Author Simatic Comment Version 1.0 User-defined IEC_TMR				es	(Propertie	sionNOK	apermiss
ame camerapermissionNOK Number 5 Type DB anguage DB Numbering Automatic Information Itle Author Simatic Comment User-defined ID ID ID ID ID ID ID ID ID ID	Numbering Automatic Author Simatic Comment Version 1.0 User-defined IEC_TMR							
Author Simatic Author Simatic Version 1.0 User-defined IEC_TMR ID Time T#0ms Fal IN Bool false Fal	Numbering Automatic Author Simatic Comment Version 1.0 User-defined IEC_TMR				NOK N	permission	camarar	
Author Simatic Comment User-defined IEC_TMR ID	Author Simatic Comment Version 1.0 User-defined IEC_TMR		А	ımbering				
Author Simatic Comment User-defined IEC_TMR ID	Version 1.0 User-defined IEC_TMR	atic			<u> </u>		DB	
Manual M	Version 1.0 User-defined IEC_TMR	atıc						nation
Data type Start value Reversities PT Time T#0ms Fall ET Time T#0ms Fall IN Bool false Fall							IEC	
Static Time T#0ms Fal ET Time T#0ms Fal IN Bool false Fal	ID		1.	rsion			IEC	,
Static Time T#0ms Fal ET Time T#0ms Fal IN Bool false Fal	Data type Start value Reta		type	Data				
ET Time T#0ms Fal								ıtic
IN Bool false Fal	Time T#0ms False			Time				PT
				Time				ET
Q Bool false Fal								
	Bool false False			Bool				Q

) C 1 [/	CDU 1214C DC	וחכוחכו ו	Dио а ио ю	blocks /	Cystom b	locks /	
roarsh	CPU 1214C DC	/DC/DC] /	Program	DIOCKS /	system b	IOCKS /	
rogran	n resources						
onveyo	rfreetime [DB9]						
	etime Properties						
eneral ame		Number	9		T	DD	
inguage	conveyorfreetime DB	Numbering			Туре	DB	
formation		Numbering	Automatic				
tle		Author	Simatic		Comment		
mily	IEC	Version	1.0		User-defined	IEC_TMR	
					ID		
ime		Dat	a type	Start value			Retain
Static							
PT		Tim	ie	T#0ms		I	False
ET		Tim	e	T#0ms			False
IN		Вос		false			False
		Вос	ol	false		I	False
Q		'					
Q		1					
Q		'					
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							

enttime Pro	perties						
eneral	po						
lame	senttime	Number	14		Туре	DB	
anguage formation	DB	Numbering	Automatic				
tormation		Author	Simatic		Comment		
mily	IEC	Version	1.0		User-defined	IEC_TMR	
					ID		
me		Data 1	:ype	Start value		F	Retain
Static				T#0			- 1
PT		Time		T#0ms			False False
ET		Time Bool		T#0ms false			-aise -alse
INI				false			False
Q Q		Bool		Idise		l.	uisc
		Bool		Idise		l	disc
		Bool		Idise		l	disc
		Bool		Idise		l	disc
		Bool		Idise			disc
		Bool		Idise			disc
		Bool		Idise			disc
		Bool		Idise			disc
		Bool		Idise			disc
		Bool		Idise			disc
		Bool		Idise			disc
		Bool		Idise			disc
		Bool		Idise			disc
		Bool		Idise			GISC
		Bool		Idise			und in the control of

ies 30to40					
					_
	Number	15		Туре	DB
DB	Numberir	g Automatic			
	Author	Cima+ia		Commont	
IFC					IEC_TMR
ILC	Version	1.0		ID	ILC_TIVIK
	Da	ta type	Start valu	ie	Retain
	Tir	ne	T#0ms		False
			T#0ms		False
	Во	ol	false		False
	Во	ol	false		False
	IEC	Author Version Da Tim Tim Boo	Author Simatic	Author Simatic Version 1.0 Data type Start valu Time T#0ms Time T#0ms Bool false	Author Simatic Comment Version 1.0 User-defined ID Data type Start value Time T#0ms Time T#0ms Bool false

untonbox P	roperties					
eneral					_	
ame	countonbox	Number	16		Туре	DB
nguage formation	DB	Numbering	Automatic			
tormation tle		Author	Simatic		Comment	
nily	IEC	Version	1.0		User-defined ID	CNTR
me		Data t	type	Start value	9	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		IIIL		U		Tiue
CV		Int		0		True

arttime	e [DB17]						
rttime Pro	perties						
eneral							
me	starttime	Number	17		Туре	DB	
nguage	DB	Numbering	Automatic				
ormation le		Author	Simatic		Comment		
nily	IEC	Version	1.0		User-defined ID	IEC_TMR	
me		Data 1	type	Start value	1	<u>'</u>	Retain
Static							
PT		Time		T#0ms			False
ET		Time		T#0ms			False
IN		Bool		false			False
Q		Bool		false			False

Inter_O_DB Properties Inter_O_DB	C_Tim	er_0_DB [DB18]						
me IEC_Timer_O_DB Number 18 Type DB nguage DB Numbering Automatic Ormation le Author Simatic Comment Version 1.0 User-defined ID IEC_TMR me Data type Start value Retain Static Time T#0ms False ET Time T#0ms False IN Bool false False		_DB Properties						
Numbering Automatic Author Simatic Comment		IFC Timer O DR	Number	18		Type	DR	
Author Simatic Comment User-defined IEC_TMR ID						Туре	ОВ	
mily IEC Version 1.0 User-defined ID IEC_TMR me Data type Start value Retain Static Time T#0ms False ET Time T#0ms False IN Bool false False			, rumbering	racomacie				
me Data type Start value Retain Static Time T#0ms False ET Time T#0ms False IN Bool false False			Author	Simatic		Comment		
Static Time T#0ms False ET Time T#0ms False IN Bool false False	nily	IEC	Version	1.0			IEC_TMR	
PT Time T#0ms False ET Time T#0ms False IN Bool false False			Data t	type	Start value	2		Retain
ET Time T#0ms False IN Bool false False								
IN Bool false False								
Q Bool false False								
	Q		БООТ		iaise			raise

nguage DB Numbering Automatic ormation le Author Simatic Comment mily IEC Version 1.0 User-defined IEC_TMR ID me Data type Start value Retain	C_Timer_0 eneral	_DB_1 Properties						
Author Simatic Comment User-defined IEC_TMR ID	ame					Туре	DB	
Author Simatic Comment User-defined IEC_TMR			Numbering	Automatio				
me Data type Start value Retain Static PT Time T#0ms False ET Time T#0ms False IN Bool false False	tle			Simatic				
me Data type Start value Retain Static Time T#0ms False ET Time T#0ms False IN Bool false False	mily	IEC	Version	1.0			IEC_TMR	
Static Time T#0ms False ET Time T#0ms False IN Bool false False	ame		Data t	tyne	Start valu			Retain
ET Time T#0ms False IN Bool false False	Static		Data	уре	Start valu			Netalli
IN Bool false False	PT		Time		T#0ms			
Q Bool false False	IN							
	Q							
	Q							
	Q							

C_Timer_0 eneral	_DB_2 Properties						
lame	IEC_Timer_0_DB_2	Number	20		Туре	DB	
anguage nformation	DB	Numbering	Automatio				
itle		Author	Simatic		Comment		
mily	IEC	Version	1.0		User-defined ID	IEC_TMR	
ame		Data t	vpe	Start valu			Retain
Static		Jata	71-3	Julie valu	-		J.uiii
PT		Time		T#0ms			False
ET		Time		T#0ms			False
IN Q		Bool Bool		false false			False False

ne IEC_Timer_0_DB_3	C_Timer_0 eneral	_DB_3 Properties					
Author Simatic Comment User-defined IEC_TMR ID Data type Start value Retain Static PT Time T#0ms False ET Time T#0ms False IN Bool false False	ame					Туре	DB
Author Simatic Comment User-defined IEC_TMR ID Data type Start value Retain Static PT Time T#0ms False ET Time T#0ms False IN Bool false False	nguage formation		Numbering	Automatio			
Data type Start value Retain Static PT Time T#0ms False ET Time T#0ms False IN Bool false False	:le						
Data type Start value Retain Static PT Time T#0ms False ET Time T#0ms False IN Bool false False	nily	IEC	Version	1.0			IEC_TMR
Static Time T#0ms False ET Time T#0ms False IN Bool false False	me		Data 1	type	Start valu		Retair
ETTimeT#0msFalseINBoolfalseFalse							
IN Bool false False							
	Q				laise		
	Q				laise		
	Q				laise		
	Q				laise		
	Q				laise		

ne IEC_Timer_0_DB_4 Number 22 Type DB	_Timer_0 neral	_DB_4 Properties					
Author Simatic Comment	me					Туре	DB
Author Simatic Comment User-defined ID IEC_TMR Data type Start value Retain False Time T#0ms False IN Bool false False	nguage ormation		Numbering	Automatio			
Data type Start value Retain Static PT Time T#0ms False ET Time T#0ms False IN Bool false False	le						
Static Time T#0ms False ET Time T#0ms False IN Bool false False	nily	IEC	Version	1.0			IEC_TMR
Static Time T#0ms False ET Time T#0ms False IN Bool false False	me	'	Data	type	Start valu	e	Retair
ETTimeT#0msFalseINBoolfalseFalse	Static						
IN Bool false False							
y pool jaise raise							
	Q						
	Q						
	Q						
	Q						
	Q						

ne IEC_Timer_O_DB_5 Number 23 Type DB guage DB Numbering Automatic branching Author Simatic Comment le Version 1.0 User-defined IEC_TMR ID IEC ID IEC ID IEC ID ID IEC ID IEC ID ID IEC ID IEC ID ID IEC C_Timer_0 eneral	_DB_5 Properties						
Author Simatic Comment	ame					/pe	DB
Author Simatic Comment User-defined IEC_TMR ID Data type Start value Retain PT Time T#0ms False ET Time T#0ms False IN Bool false False	nguage ormation		Numbering	Automati	С		
Data type Start value Retain Static PT Time T#0ms False ET Time T#0ms False IN Bool false False	le						
Static Time T#0ms False ET Time T#0ms False IN Bool false False	nily	IEC	Version	1.0			IEC_TMR
Static Time T#0ms False ET Time T#0ms False IN Bool false False	ne		Data t	type	Start value		Retair
ETTimeT#0msFalseINBoolfalseFalse	tatic						
IN Bool false False							
y pool pase raise raise	INI		BOOL		Haise		raise

C_Timer_0 ieneral	_DB_6 Properties						
lame	IEC_Timer_0_DB_6	Number	24		Туре	DB	
anguage nformation	DB	Numbering	Automatio				
itle		Author	Simatic		Comment		
amily	IEC	Version	1.0		User-defined ID	IEC_TMR	
ame		Data t	type	Start valu		R	etain
▼ Static		Data	-76-	Juli Valu	. -		Swiii
PT		Time		T#0ms			alse
ET		Time		T#0ms			alse
IN		Bool Bool		false false			alse alse
Q							
Q							
Q							
Q							
Q							
Q							
Q							
Q							

Totally Integrated Automation Portal		
PLC_1 [CPU 121	4C DC/DC/DC]	
Technology objec	ts	
This folder is empty.		

lly Integrated
Automation Portal

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

PLC tags

	Name	Data type	Address	Retain
II	mdiWritevalues	Bool	%M2.0	False
TI I	qsent to came rapermission OK	Int	%MW10	False
TOT I	х	DWord	%MD60	False
व्या	у	DWord	%MD70	False
वा	theta	DWord	%MD80	False
(B)	ai RZV analog 1	Word	%IW100	False
T	ai RZV analog 2	Word	%IW102	False
वा	diConveyorDriverOK	Bool	%IO.O	False
व्या	diEmergencyOK	Bool	%IO.1	False
(B)	diDoorSwitchOK	Bool	%10.2	False
701	di Robothand Partsensor	Bool	%10.3	False
वा	diConveyorLoaded	Bool	%10.4	False
वा	diConveyorFinalstop	Bool	%10.5	False
वा	diAutoStartButton	Bool	%10.6	False
101	diAutoStopButton	Bool	%10.7	False
वा	diResetButon	Bool	%I1.0	False
(III	diRZV1	Bool	%I1.1	False
1	diRZV2	Bool	%I1.2	False
701	diRZV3	Bool	%I1.3	False
an a	diRZV4	Bool	%I1.4	False
(III	diRZV5	Bool	%I1.5	False
101	qLightningLeds	Bool	%Q0.0	False
(III	q220vAC_RZV_RELAY	Bool	%Q0.1	False
(III	qLed_Green	Bool	%Q0.2	False
वा	qLed_Red	Bool	%Q0.3	False
101	qConveyorDriverRESET	Bool	%Q0.4	False
an a	qAutostart button lamp	Bool	%Q0.5	False
वा	qRZV1	Bool	%Q0.6	False
an a	qConveyorDriverSTART	Bool	%Q0.7	False
701	qRZV2	Bool	%Q1.0	False
वा	qRobotMagnetSTART	Bool	%Q1.1	False
(TII	buttoncontrolsr1	Bool	%M6.0	False
(B)	buttoncontrolsr2	Bool	%M8.0	False
वा	buttoncontrolsr3	Bool	%M10.0	False
101	mSafetyOK	Bool	%M16.0	False
(III	Tag_4	Bool	%M20.0	False
THE RESERVE	diCameraConnectionStatus	Bool	%M24.0	False

Totally Integ	rated
Automation	Portal

ı	Name	Data type	Address	Retain
TOT .	mProductonconveyor	Int	%MW24	False
and the same	ptriggcounter	Bool	%M30.0	False
TOT .	mcounterreset	Bool	%M32.0	False
TOT .	counterZERO	Bool	%M33.0	False
TOT	mGeneral Alarm_RED	Bool	%M33.1	False
TOT .	mmpptomainptrig	Bool	%M33.2	False
TII	mHMIRobotGOhome	Bool	%M33.3	False
and the same	mProductonBOX	Int	%MW26	False
101	mcounterreset_box	Bool	%M32.1	False
नवा ।	mHMIResetButton	Bool	%M2.5	False
101	mProductonBOXSWAPPED	Int	%MW0	False
1	mRobot Controller Restart	Bool	%M2.1	False
and the same	CameraConnectionStatus	DWord	%MD90	False
an a	mCameraCONNECTIONOK	Bool	%M3.0	False
	hmiLEDBUTTON	Bool	%M2.3	False

Totally Integrated Automation Portal		
PLC_1 [CPU 121	4C DC/DC/DC] / PLC tags / Default tag tabl	e [86]
User constants		
User constants		
Name	Data type Value	

ally Integrated	
Automation Portal	

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	%168.0	False
-111	iPN_Q_001_MotorOnState	Bool	%l68.1	False
1	iPN_Q_002_RunchainOk	Bool	%168.2	False
-111	iPN_Q_003_AutoON	Bool	%168.3	False
1	iPN_Q_004_TaskExecuting	Bool	%168.4	False
-111	iPN_Q_005_RobotReadyHOME	Bool	%168.5	False
1	iPN_Q_006_MagnetON	Bool	%168.6	False
-111	iPN_Q_007_WriteAccess	Bool	%168.7	False
-111	iPN_Q_008_EmStop	Bool	%169.0	False
-111	iPN_Q_009_Error	Bool	%169.1	False
-111	iPN_Q_010_Regain DistError	Bool	%169.2	False
1	iPN_Q_011_PFError	Bool	%169.3	False
-111	iPN_Q_012_ProdExecError	Bool	%169.4	False
-11	iPN_Q_013_TemperatureWarning	Bool	%169.5	False
-(11)	iPN_Q_014_CPUFannotRunning	Bool	%169.6	False
-11	iPN_Q_015_SmbBatteryChargeLow	Bool	%169.7	False

Totally Integrated Automation Portal						
PLC_1 [CPU 1214C DC/DC/DC] / PLC tags / iRobot2PLC [16]						
User constants						
User constants						
Name	Data type Value					

otally Integrated	
Automation Portal	

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

PLC tags

C tag	lame	Data type	Address	Retain
ar .	qPN_I_000_MotorOff	Bool	%Q132.0	False
and the same of th	qPN_I_001_MotorON	Bool	%Q132.1	False
1	qPN_I_002_MotonStart	Bool	%Q132.2	False
1	qPN_I_003_QuickStop	Bool	%Q132.3	False
1	qPN_I_004_Start	Bool	%Q132.4	False
1	qPN_I_005_StartMain	Bool	%Q132.5	False
1	qPN_I_006_Stop	Bool	%Q132.6	False
1	qPN_I_007_StopCycle	Bool	%Q132.7	False
101	qPN_I_008_ResetEstop	Bool	%Q133.0	False
1	qPN_I_009_ResetError	Bool	%Q133.1	False
1	qPN_I_010_SYSReset	Bool	%Q133.2	False
1	qPN_I_011_WriteAccess	Bool	%Q133.3	False
1	qPN_I_012_PPtoMain	Bool	%Q133.4	False
1	qPN_I_013_RobotCanStart	Bool	%Q133.5	False
(III	qPN_I_014_Reset_Counter	Bool	%Q133.6	False
1	qPN_I_015_RobotHandSensor	Bool	%Q133.7	False
1	qPN_I_016_NeedHoming	Bool	%Q134.0	False
1	17	Bool	%Q134.1	False
III	18	Bool	%Q134.2	False
1	19	Bool	%Q134.3	False
1	20	Bool	%Q134.4	False
THE STATE OF THE S	21	Bool	%Q134.5	False
1	22	Bool	%Q134.6	False
1	23	Bool	%Q134.7	False
1	24	Bool	%Q135.0	False
THE STATE OF THE S	25	Bool	%Q135.1	False
1	26	Bool	%Q135.2	False
THE STATE OF THE S	27	Bool	%Q135.3	False
1	28	Bool	%Q135.4	False
1	29	Bool	%Q135.5	False
1	30	Bool	%Q135.6	False
1	31	Bool	%Q135.7	False
1	32	Bool	%Q136.0	False
1	33	Bool	%Q136.1	False
THE STATE OF THE S	34	Bool	%Q136.2	False
1	35	Bool	%Q136.3	False
1	36	Bool	%Q136.4	False

	Name	Data type	Address	Retain
	37	Bool	%Q136.5	False
1	38	Bool	%Q136.6	False
T	39	Bool	%Q136.7	False
II	40	Bool	%Q137.0	False
II	41	Bool	%Q137.1	False
II	42	Bool	%Q137.2	False
II	43	Bool	%Q137.3	False
DT .	44	Bool	%Q137.4	False
BT	45	Bool	%Q137.5	False
BT	46	Bool	%Q137.6	False
BT .	47	Bool	%Q137.7	False
OI .	48	Bool	%Q138.0	False
TI I	49	Bool	%Q138.1	False
OI .	50	Bool	%Q138.2	False
TI I	51	Bool	%Q138.3	False
al .	52	Bool	%Q138.4	False
BI	53	Bool	%Q138.5	False
OI .	54	Bool	%Q138.6	False
BT	55	Bool	%Q138.7	False
DI	56	Bool	%Q139.0	False
TI .	57	Bool	%Q139.1	False
ŒT	58	Bool	%Q139.2	False
OI .	59	Bool	%Q139.3	False
OI .	60	Bool	%Q139.4	False
TI .	61	Bool	%Q139.5	False
TO I	62	Bool	%Q139.6	False
TI .	63	Bool	%Q139.7	False
ŒI	qPN_IW08_X	Int	%QW140	False
TI .	qPN_IW010_Y	Int	%QW142	False
10	qPN_IW012_ANGLE	Int	%QW144	False
OT.	qPN_IW14_PRODUCTCOUNTER	Int	%QW146	False

Totally Integrated Automation Portal						
PLC_1 [CPU 1214C DC/DC/DC] / PLC tags / qPLC2Robot [68]						
User constants						
User constants						
Name	Data type Value					

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

Totally Integrated					
Automation Portal					
PIC 1 [CPII 1214	ר מכומכומכז ו	Natch and force tab	les		
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			
,					

Totally Integrated Automation Portal	

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

Watch table_1

Name	Address	Display format	Modify value
"diAutoStopButton"	%10.7	Bool	
"diEmergencyOK"	%I0.1	Bool	
"diDoorSwitchOK"	%10.2	Bool	
"di Robothand Partsensor"	%10.3	Bool	
"diConveyorLoaded"	%10.4	Bool	
"di Conveyor Finalstop"	%10.5	Bool	
"diAutoStartButton"	%10.6	Bool	
"diAutoStopButton"	%10.7	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

Totally Integrated Automation Portal		
PLC_1 [CPU 121	4C DC/DC/DC]	
Traces		
Name		

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

Totally Integrated Automation Portal		
PLC_1 [CPU 121	4C DC/DC/DC] / Traces	
Combined measur	rements	
Name		

Totally Integrated Automation Portal		
PLC_1 [CPU 121	4C DC/DC/DC]	
PLC alarm text list	s	
This folder is empty.		

Totally Integrated Automation Portal			
	214C DC/DC/DC] / Lo	ocal modules	
PLC_1 [CPU 121	4C DC/DC/DC]		
PLC_1			
Project information Name	DLC 1	Author	Mali
Comment	PLC_1	Slot	1
Rack	0	Siot	I
Catalog information	U		
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 Al2 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
tion:	0	S7 communication:	0
Maximum number of S7 connection resour-	38		

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

Totally	Integ	ırated
Automa	ation	Portal

Туре	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	[CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 1
0	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	11
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
0	1000	1001	Pulse_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 32
0	1002	1003	Pulse_2	Automatic update		-	2 Bytes	-	0	1 33
0	1004	1005	Pulse_3	Automatic update		-	2 Bytes	-	0	1 34
0	1006	1007	Pulse_4	Automatic update		-	2 Bytes	-	0	1 35
I	68	131	DI 64 bytes_1	Automatic update	RobotBasi- cIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	1
0	132	195	DO 64 bytes_1	Automatic update	RobotBasi- cIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	2

			. !!			
PLC_1 [CPU 1	1214C DC/D	DC/DC] / Dis	tributed I/O			
ROFINET IO-S	ystem (100)	: PN/IE_1				
ROFINET IO-System						
eneral			II			
O controller:	PLC_1		Name:	PROFINET I	O-System	
lumber:	100		Use name as exten- sion for the PROFINET device name.	False		
lardware identifier			device Hairie.			
ardware identifier	269					
verview of address		ddresses\Overview				
nputs	True		Outputs	True		
ddress gaps	False		Slot	True		

Totally	Integ	ırated
Automa	ation	Portal

Туре	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	[CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 1
0	0	1	DI 14/DQ 10_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	11
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
0	1000	1001	Pulse_1	Automatic update	PLC_1 [CPU 1214C DC/DC/DC]	-	2 Bytes	-	0	1 32
0	1002	1003	Pulse_2	Automatic update		-	2 Bytes	-	0	1 33
0	1004	1005	Pulse_3	Automatic update		-	2 Bytes	-	0	1 34
0	1006	1007	Pulse_4	Automatic update		-	2 Bytes	-	0	1 35
I	68	131	DI 64 bytes_1	Automatic update	RobotBasi- cIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	1
0	132	195	DO 64 bytes_1	Automatic update	RobotBasi- cIO [BASIC V1.4]	1	64 Bytes	PROFINET IO-System [100]	0	2

Totally Integrated Automation Portal		
PLC_1 [CPU 121 PROFINET IO-Sy	4C DC/DC/DC] / Distributed I/O / stem (100): PN/IE_1	

RobotBasicIO [BASIC V1.4]

RobotBasicIO			
General			
Name	RobotBasicIO	Author	Mali
Comment		Rack	0
Slot	0		
General\Catalog info	rmation		
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]\G	eneral	
PositionNumber	1	Name	Network Port
Comment			