

Totally Integrated Automation Portal							
Understanding FB and FC_Training							
Project							
Name:	Understanding FB and FC_Training	Creation time:	1/13/2023 6:19:43 PM	Last change	1/20/2023 7:06:03 PM	Author:	thegeterrdone
Last modified by:	thegeterrdone	Version:					
Comment:							
Operating system							
Name				Description			
Operating system				Microsoft Windows 10 Pro			
Version of the operating system				6.3.9600.0			
Operating system service pack							
Version of the Internet Explorer				11.789.19041.0			
Computer name				DOCTORCODE			
User name				DOCTORCODE\thegeterrdone			
Installation path of the TIA Portal				C:\Program Files\Siemens\Automation\Portal V16			
Components							
Name			Version		Release		
TIA Portal Project Server V16 - TIA Portal Project Server Single SetupPackage V16.0 (MUSERVERV16)			V16.0		V16.00.00.00_31.02.00.01		
TIA Administrator - AWB Licensing Module V1.0 + SP2 (TIAADMIN)			V1.0 + SP2		V01.00.02.00_01.10.00.01		
TIA Administrator - AWB Software Management V1.0 + SP2 (TIAADMIN)			V1.0 + SP2		V01.00.02.00_01.10.00.01		
TIA Administrator - TIA UMC Agent Configurator Module V1.0 + SP2 (TIAADMIN)			V1.0 + SP2		V01.00.02.00_01.10.00.01		
TIA Administrator - TIA Administrator V1.0 SP2 (TIAADMIN)			V1.0 + SP2		V01.00.02.00_01.10.00.01		
Siemens Totally Integrated Automation Portal V16 - HM All Editions Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - HM NoBasic Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 0 V16.0 (TIAP16)			V16.0		V16.00.00.00_27.01.00.01		
Siemens Totally Integrated Automation Portal V16 - Multiuser Client Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - Version Control Interface SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - STEP 7 Safety Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - STEP 7 Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 02 V16.0 (TIAP16)			V16.0		V16.00.00.00_27.01.00.01		
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 03 V16.0 (TIAP16)			V16.0		V16.00.00.00_27.01.00.01		
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 04 V16.0 (TIAP16)			V16.0		V16.00.00.00_27.01.00.01		
Siemens Totally Integrated Automation Portal V16 - Support Base Package TO-01 V16.0 (TIAP16)			V16.0		V16.00.00.00_27.01.00.01		
Siemens Totally Integrated Automation Portal V16 - Support Base Package TO-02 V16.0 (TIAP16)			V16.0		V16.00.00.00_27.01.00.01		
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package WCF-01 V16.0 (TIAP16)			V16.0		V16.00.00.00_27.01.00.01		
Siemens Totally Integrated Automation Portal V16 - TIACOMP CHECK Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - Simatic Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - WinCC Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - Openness SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - WinCC Transfer Mandatory Single SetupPackage V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
User Management Component - UserManagementComponentx64 V2.7 (UMC64)			V2.7		V02.07.00.00_04.06.00.07		
WinCC Runtime Advanced V16.0 - HMIRTM Tagging Package 01 Single SetupPackage V16.0 (HMIRTM_V11)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - Simatic Single SetupPackage 32 Bit V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
Siemens Totally Integrated Automation Portal V16 - WinCC Single SetupPackage 32 Bit V16.0 (TIAP16)			V16.0		V16.00.00.00_31.02.00.01		
SIMATIC HMI License Manager Panel Plugin (x64)			16.0.0.0		V16.00.00.00_31.02.00.01		
SIMATIC WinCC Runtime Advanced Driver (x64)			16.0.0.0		V16.00.00.00_31.02.00.01		
ETWEEventCollector			16.0.0.0		V16.00.00.00_31.02.00.01		
SIMATIC NCM FWL 64			5.6.0.3		K5.6.0.3_1.1.0.2		
NCM GPRS 64			01.02.00.00		V1.2.0.0_2.1.0.1		
SIMATIC Device Drivers			9.2		09.02.04.00_01.04.00.05		
TelemetryConnector			1.0.2.57		V01.00.02.57_01.00.00.01		
Automation Software Updater			02.05.0000		V02.05.00.00_01.03.00.02		
SIEMENS OPC			3.9		03.09.10.00_01.04.00.08		
SIMATIC HMI ProSave			16.0.0.0		V16.00.00.00_31.02.00.01		
SIMATIC HMI Symbol Library			16.0.0.0		V16.00.00.00_31.02.00.01		
SIMATIC HMI Touch Input			16.0.0.0		V16.00.00.00_31.02.00.01		
SIMATIC Device Drivers WoW			29.2		29.02.04.00_01.04.00.05		
SIMATIC Event Database			5.6		05.06.02.00_01.01.00.01		
SeCon			2.6		V02.06.01.00_01.08.00.01		
WinCC Runtime Advanced Simulator			16.0.0.0		V16.00.00.00_31.02.00.01		

Totally Integrated Automation Portal																													
<div><div>Products</div><table><tr><th>Name</th><th>Version</th><th>Release</th></tr><tr><td>TIA Portal Project Server</td><td>V16.0</td><td>V16.00.00.00_31.02.00.01</td></tr><tr><td>TIA Administrator</td><td>V1.0</td><td>01.00.02.00_01.10.00.01</td></tr><tr><td>SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Adv</td><td>V16.0</td><td>V16.00.00.00_31.02.00.01</td></tr><tr><td>User Management Component</td><td>V2.7</td><td>V02.07.00.00_00.00.00.00</td></tr><tr><td>SIMATIC WinCC Runtime Advanced Simulation</td><td>V16.0</td><td>V16.00.00.00_31.02.00.01</td></tr><tr><td>Automation License Manager</td><td>V6.0 + SP5 + Upd1</td><td>06.00.05.01_02.01.00.05</td></tr><tr><td>SIMATIC ProSave</td><td>V16.0</td><td>V16.00.00.00_31.02.00.01</td></tr><tr><td>S7-PCT</td><td>V3.5 + SP1</td><td>K3.5.1.0_1.19.0.1</td></tr></table></div>			Name	Version	Release	TIA Portal Project Server	V16.0	V16.00.00.00_31.02.00.01	TIA Administrator	V1.0	01.00.02.00_01.10.00.01	SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Adv	V16.0	V16.00.00.00_31.02.00.01	User Management Component	V2.7	V02.07.00.00_00.00.00.00	SIMATIC WinCC Runtime Advanced Simulation	V16.0	V16.00.00.00_31.02.00.01	Automation License Manager	V6.0 + SP5 + Upd1	06.00.05.01_02.01.00.05	SIMATIC ProSave	V16.0	V16.00.00.00_31.02.00.01	S7-PCT	V3.5 + SP1	K3.5.1.0_1.19.0.1
Name	Version	Release																											
TIA Portal Project Server	V16.0	V16.00.00.00_31.02.00.01																											
TIA Administrator	V1.0	01.00.02.00_01.10.00.01																											
SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Adv	V16.0	V16.00.00.00_31.02.00.01																											
User Management Component	V2.7	V02.07.00.00_00.00.00.00																											
SIMATIC WinCC Runtime Advanced Simulation	V16.0	V16.00.00.00_31.02.00.01																											
Automation License Manager	V6.0 + SP5 + Upd1	06.00.05.01_02.01.00.05																											
SIMATIC ProSave	V16.0	V16.00.00.00_31.02.00.01																											
S7-PCT	V3.5 + SP1	K3.5.1.0_1.19.0.1																											

Totally Integrated Automation Portal

Understanding FB and FC_Training

PLC_1 [CPU 1516-3 PN/DP]

PLC_1

General\Project information

Name	PLC_1	Author	thegeterrdone	Comment	
Rack	0	Slot	1		

General\Catalog information

Short designation	CPU 1516-3 PN/DP	Description	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit operation time; 4-stage protection concept, technology functions: motion control, closed-loop control, counting and measuring; tracing; Runtime options; isochronous mode (central); for all PROFINET interfaces: transport protocol TCP/IP, secure Open User Communication, S7 communication, S7 routing, IP forwarding, Web server, DNS client, OPC UA: Server DA, Client DA, methods, companion specifications; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-Device, MRP, MRPD, isochronous mode; 2nd interface: PROFINET IO controller, supports RT, I-Device; 3rd interface: PROFIBUS DP Master, S7 communication, isochronous mode, S7 routing; firmware V2.8		
Article number	6ES7 516-3AN01-0AB0				

Firmware version	V2.8				
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General\Identification & Maintenance

Plant designation		Location identifier		Installation date	2023-01-14 13:14:29.163
Additional information					

General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	38 16 D0 76 42 88 EB DB		
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Connection resources\

	Station resources - Reserved - Maximum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - PLC_1 [CPU 1516-3 PN/DP] - Configured	
Maximum number of resources:		10	118	128	
	Maximum	Configured	Configured	Configured	
PG communication:	4	-	-	-	
HMI communication:	4	0	0	0	
S7 communication:	0	-	0	0	
Open user communication:	0	-	0	0	
Web communication:	2	-	-	-	
OPC UA client/server communication:	0	-	-	-	
Other communication:	-	-	0	0	
Total resources used:		0	0	0	
Available resources:		10	118	128	

Overview of addresses\Overview of addresses\Overview of addresses

Inputs	True	Outputs	True	Address gaps	False
Slot	True				

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<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP]</div> <div>Software units</div> <div>This folder is empty.</div>		

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Main [OB1]

Main Properties

General

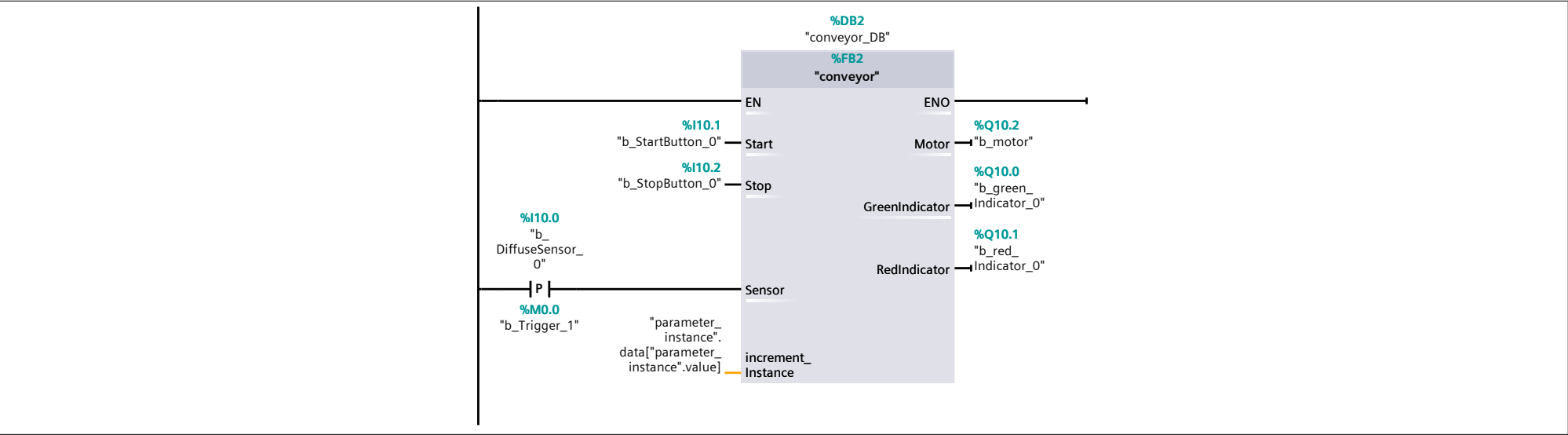
Name	Main	Number	1	Type	OB	Language	LAD
Numbering	Automatic						

Information

Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

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

Network 1:



Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Startup [OB100]

Startup Properties

General

Name	Startup	Number	100	Type	OB	Language	SCL
Numbering	Automatic						

Information

Title	"Complete Restart"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value
▼ Input		
LostRetentive	Bool	
LostRTC	Bool	
Temp		
Constant		

0001

"parameter_instance".data[0] := "increment_1";

0002

"parameter_instance".data[1] := "increment_2";

0003

"parameter_instance".data[2] := "increment_3";

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / Functions

Data_block_1 [DB1]

Data_block_1 Properties

General

Name	Data_block_1	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
▼ Static			
count	Int	0	False

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / Functions

function_1 [FC1]

function_1 Properties

General

Name	function_1	Number	1	Type	FC	Language	SCL
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value
▼ Input		
In_1	Bool	
Output		
InOut		
▼ Temp		
count	Int	
Constant		
▼ Return		
function_1	Void	

```
0001 IF #In_1 THEN
0002     #count := #count + 1;
0003     "Data_block_1".count := "Data_block_1".count + 1;
0004 END_IF;
```


Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / FunctionBlocks

conveyor [FB2]

conveyor Properties							
General							
Name	conveyor	Number	2	Type	FB	Language	SCL
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					
Name			Data type	Default value		Retain	
▼ Input							
Start			Bool	false		Non-retain	
Stop			Bool	false		Non-retain	
Sensor			Bool	false		Non-retain	
▼ Output							
Motor			Bool	false		Non-retain	
GreenIndicator			Bool	false		Non-retain	
RedIndicator			Bool	false		Non-retain	
▼ InOut							
increment_Instance			"increment"				
▼ Static							
step			Int	0		Non-retain	
Temp							
Constant							

```
0001 IF NOT #Stop THEN
0002     #step := 0;
0003 END_IF;
0004
0005 IF #Start AND #Stop THEN
0006     #step := 1;
0007 END_IF;
0008
0009 IF #step = 1 THEN
0010
0011     #Motor := true;
0012     #GreenIndicator := True;
0013     #RedIndicator := False;
0014 END_IF;
0015
0016 IF #step = 0 THEN
0017     #Motor := false;
0018     #GreenIndicator := False;
0019     #RedIndicator := True;
0020 END_IF;
0021
0022 #increment_Instance(In_1 := #Sensor);
0023
0024
0025
0026
```

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / FunctionBlocks

conveyor_DB [DB2]

conveyor_DB Properties

General

Name	conveyor_DB	Number	2	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain
▼ Input			
Start	Bool	false	False
Stop	Bool	false	False
Sensor	Bool	false	False
▼ Output			
Motor	Bool	false	False
GreenIndicator	Bool	false	False
RedIndicator	Bool	false	False
▼ InOut			
increment_Instance	"increment"		False
▼ Static			
step	Int	0	False

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / FunctionBlocks

decrement [FB3]

decrement Properties

General

Name	decrement	Number	3	Type	FB	Language	SCL
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain
▼ Input			
In_1	Bool	false	Non-retain
Output			
InOut			
▼ Static			
count_1	Int	0	Non-retain
Temp			
Constant			

```
0001 IF #In_1 THEN
0002     #count_1 := 1000 - 1;
0003 END_IF;
```

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / ParameterInstance

increment_1 [DB3]

increment_1 Properties

General

Name	increment_1	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
▼ Input			
In_1	Bool	false	False
Output			
InOut			
▼ Static			
count_2	Int	0	False

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / ParameterInstance

increment [FB1]

increment Properties

General

Name	increment	Number	1	Type	FB	Language	SCL
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain
▼ Input			
In_1	Bool	false	Non-retain
Output			
InOut			
▼ Static			
count_2	Int	0	Non-retain
▼ Temp			
count_1	Int		
Constant			

```
0001 IF #In_1 THEN
0002     #count_1 := #count_1 + 1;
0003     #count_2 := #count_2 + 1;
0004 END_IF;
```

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / ParameterInstance

increment_2 [DB4]

increment_2 Properties

General

Name	increment_2	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
▼ Input			
In_1	Bool	false	False
Output			
InOut			
▼ Static			
count_2	Int	0	False

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / ParameterInstance

increment_3 [DB5]

increment_3 Properties

General

Name	increment_3	Number	5	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain
▼ Input			
In_1	Bool	false	False
Output			
InOut			
▼ Static			
count_2	Int	0	False

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Program blocks / ParameterInstance

parameter_instance [DB6]

parameter_instance Properties

General

Name	parameter_instance	Number	6	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					













Name	Data type	Start value	Retain
▼ Static			
data	Array[0..2] of DB_ANY		False
value	Int	0	False





































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<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP]</div> <div>Technology objects</div> <div>This folder is empty.</div>		

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Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP]

PLC tags

PLC tags			
Icon	Name	Data type	Address
	b_DiffuseSensor_0	Bool	%I10.0
	b_green_Indicator_0	Bool	%Q10.0
	b_motor	Bool	%Q10.2
	b_red_Indicator_0	Bool	%Q10.1
	b_StartButton_0	Bool	%I10.1
	b_StopButton_0	Bool	%I10.2
	b_Trigger_1	Bool	%M0.0
	b_Trigger_2	Bool	%M0.1
	b_Trigger_3	Bool	%M0.2
	b_Trigger_4	Bool	%M0.3
	inputs	Byte	%IB10
	outputs	Byte	%QB10

Totally Integrated Automation Portal																																																										
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / PLC tags</div> <div>Default tag table [62]</div> <table><tr><th colspan="4">PLC tags</th></tr><tr><th>Icon</th><th>Name</th><th>Data type</th><th>Address</th></tr><tr><td></td><td>b_DiffuseSensor_0</td><td>Bool</td><td>%I10.0</td></tr><tr><td></td><td>b_green_Indicator_0</td><td>Bool</td><td>%Q10.0</td></tr><tr><td></td><td>b_motor</td><td>Bool</td><td>%Q10.2</td></tr><tr><td></td><td>b_red_Indicator_0</td><td>Bool</td><td>%Q10.1</td></tr><tr><td></td><td>b_StartButton_0</td><td>Bool</td><td>%I10.1</td></tr><tr><td></td><td>b_StopButton_0</td><td>Bool</td><td>%I10.2</td></tr><tr><td></td><td>b_Trigger_1</td><td>Bool</td><td>%M0.0</td></tr><tr><td></td><td>b_Trigger_2</td><td>Bool</td><td>%M0.1</td></tr><tr><td></td><td>b_Trigger_3</td><td>Bool</td><td>%M0.2</td></tr><tr><td></td><td>b_Trigger_4</td><td>Bool</td><td>%M0.3</td></tr><tr><td></td><td>inputs</td><td>Byte</td><td>%IB10</td></tr><tr><td></td><td>outputs</td><td>Byte</td><td>%QB10</td></tr></table>			PLC tags				Icon	Name	Data type	Address		b_DiffuseSensor_0	Bool	%I10.0		b_green_Indicator_0	Bool	%Q10.0		b_motor	Bool	%Q10.2		b_red_Indicator_0	Bool	%Q10.1		b_StartButton_0	Bool	%I10.1		b_StopButton_0	Bool	%I10.2		b_Trigger_1	Bool	%M0.0		b_Trigger_2	Bool	%M0.1		b_Trigger_3	Bool	%M0.2		b_Trigger_4	Bool	%M0.3		inputs	Byte	%IB10		outputs	Byte	%QB10
PLC tags																																																										
Icon	Name	Data type	Address																																																							
	b_DiffuseSensor_0	Bool	%I10.0																																																							
	b_green_Indicator_0	Bool	%Q10.0																																																							
	b_motor	Bool	%Q10.2																																																							
	b_red_Indicator_0	Bool	%Q10.1																																																							
	b_StartButton_0	Bool	%I10.1																																																							
	b_StopButton_0	Bool	%I10.2																																																							
	b_Trigger_1	Bool	%M0.0																																																							
	b_Trigger_2	Bool	%M0.1																																																							
	b_Trigger_3	Bool	%M0.2																																																							
	b_Trigger_4	Bool	%M0.3																																																							
	inputs	Byte	%IB10																																																							
	outputs	Byte	%QB10																																																							

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / PLC data types

ConveyorInputs

ConveyorInputs Properties

General

Name	ConveyorInputs	Number	1	Type	UDT	Language	
Numbering							

Information

Title		Author		Comment		Family	
Version		User-defined ID					

Name	Data type	Default value
Start	Bool	false
Stop	Bool	false
Reset	Bool	false
Sensor	Bool	false
Potentiometer	DInt	0

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / PLC data types

ConveyorOutputs

ConveyorOutputs Properties

General

Name	ConveyorOutputs	Number	2	Type	UDT	Language	
Numbering							

Information

Title		Author		Comment		Family	
Version		User-defined ID					

Name	Data type	Default value
SpeedConveyor	DInt	0
SpeedDisplay	DInt	0
StartIndicator	Bool	false
StopIndicator	Bool	false
ResetIndicator	Bool	false

Totally Integrated Automation Portal										
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Watch and force tables</div> <div>Force table</div> <table><tr><th>Name</th><th>Address</th><th>Display format</th><th>Force value</th></tr><tr><td colspan="4"></td></tr></table>			Name	Address	Display format	Force value				
Name	Address	Display format	Force value							

Watch table_1

Name	Address	Display format	Modify value
"b_green_Indicator_0"	%Q10.0	Bool	FALSE
"b_red_Indicator_0"	%Q10.1	Bool	FALSE
"b_motor"	%Q10.2	Bool	FALSE
	%Q10.3	Bool	

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP]</div> <div>Traces</div> <div><div>Name</div></div>		

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Traces</div> <div>Measurements</div> <div>This folder is empty.</div>		

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Traces</div> <div>Combined measurements</div> <div><div>Name</div></div>		

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication</div> <div>Server interfaces</div> <div>This folder is empty.</div>		

























Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication</div> <div>Client interfaces</div> <div>This folder is empty.</div>		


























Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms</div> <div>Supervisions</div> <div>This folder is empty.</div>		

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

PLC alarms

PLC alarms					
Name	Type	ID	Alarm text	Info text	Information only

Totally Integrated Automation Portal					
Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms					
System alarms					
System alarms					
Name	Type	ID	Alarm text	Info text	Information only
 SDIAG_AL-CAT_SUBMO-DUL_MSG_0002	PLC alarm	1	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_MOD-UL_MSG_0003	PLC alarm	2	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_RACK_MSG_0004	PLC alarm	3	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_DE-VICE_MSG_0005	PLC alarm	4	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_IOSYS-TEM_MSG_0006	PLC alarm	5	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_OST_MSG_000D	PLC alarm	6	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_IN-FO_MSG_000F	PLC alarm	7	CPU info: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_ERR_M SG_0010	PLC alarm	8	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_MD_M SG_0011	PLC alarm	9	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_MR_M SG1_0012	PLC alarm	10	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_TMPER R_MSG_0013	PLC alarm	11	Temporary CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CH_ERR_MS G_0015	PLC alarm	12	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ECH_ERR_M SG_0016	PLC alarm	13	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CH_MD_MS G_0018	PLC alarm	14	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ECH_MD_M SG_0019	PLC alarm	15	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CH_MR_MS G_001B	PLC alarm	16	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ECH_MR_M SG_001C	PLC alarm	17	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SUB_ERR_M SG_001E	PLC alarm	18	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ESUB_ERR_MSG_001F	PLC alarm	19	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SUB_MD_M SG_0021	PLC alarm	20	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ESUB_MD_M SG_0022	PLC alarm	21	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SUB_MR_M SG_0024	PLC alarm	22	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ESUB_MR_M SG_0025	PLC alarm	23	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CONFIG_IN-FO_0028	PLC alarm	24	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CONFIG_RE-PORT_0029	PLC alarm	25	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SE-CU_EV_MSG_005E	PLC alarm	26	Security event: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SE-CU_EV_IN-FO_005F	PLC alarm	27	Security information: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True

Totally Integrated Automation Portal					
Name	Type	ID	Alarm text	Info text	Information only
 SDIAG_AL-CAT_USER_MSG_0080	PLC alarm	28	User message: @1W%t#2W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_PLC_MSG_00FF	PLC alarm	29	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SUBMO-DUL_MSG_0102	PLC alarm	30	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_MOD-UL_MSG_0103	PLC alarm	31	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_RACK_MSG_0104	PLC alarm	32	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_DE-VICE_MSG_0105	PLC alarm	33	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_IOSYS-TEM_MSG_0106	PLC alarm	34	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_CPU_OST_MSG_010D	PLC alarm	35	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_CPU_ERR_M SG_0110	PLC alarm	36	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_CPU_MD_M SG_0111	PLC alarm	37	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_CPU_MR_M SG1_0112	PLC alarm	38	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_CH_ERR_MS G_0115	PLC alarm	39	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_ECH_ERR_M SG_0116	PLC alarm	40	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_CH_MD_M SG_0118	PLC alarm	41	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_ECH_MD_M SG_0119	PLC alarm	42	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_CH_MR_M SG_011B	PLC alarm	43	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_ECH_MR_M SG_011C	PLC alarm	44	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_SUB_ERR_M SG_011E	PLC alarm	45	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_ESUB_ERR_M SG_011F	PLC alarm	46	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_SUB_MD_M SG_0121	PLC alarm	47	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_ESUB_MD_M SG_0122	PLC alarm	48	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_SUB_MR_M SG_0124	PLC alarm	49	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_ESUB_MR_M SG_0125	PLC alarm	50	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_CONFIG_IN-FO_0128	PLC alarm	51	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False
 SDIAG_AL-CAT_PLC_MSG_01FF	PLC alarm	52	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP]</div> <div>PLC alarm text lists</div> <div>This folder is empty.</div>		

Totally Integrated Automation Portal

Understanding FB and FC_Training / PLC_1 [CPU 1516-3 PN/DP] / Local modules

PLC_1 [CPU 1516-3 PN/DP]

PLC_1

General\Project information

Name	PLC_1	Author	thegeterrdone	Comment	
Rack	0	Slot	1		

General\Catalog information

Short designation	CPU 1516-3 PN/DP	Description	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit operation time; 4-stage protection concept, technology functions: motion control, closed-loop control, counting and measuring; tracing; Runtime options; isochronous mode (central); for all PROFINET interfaces: transport protocol TCP/IP, secure Open User Communication, S7 communication, S7 routing, IP forwarding, Web server, DNS client, OPC UA: Server DA, Client DA, methods, companion specifications; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-Device, MRP, MRPD, isochronous mode; 2nd interface: PROFINET IO controller, supports RT, I-Device; 3rd interface: PROFIBUS DP Master, S7 communication, isochronous mode, S7 routing; firmware V2.8	Article number	6ES7 516-3AN01-0AB0
Firmware version	V2.8				

General\Identification & Maintenance

Plant designation		Location identifier		Installation date	2023-01-14 13:14:29.163
Additional information					

General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	38 16 D0 76 42 88 EB DB		
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Connection resources\

	Station resources - Reserved - Maximum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - PLC_1 [CPU 1516-3 PN/DP] - Configured
Maximum number of resources:		10	118	128
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	4	0	0	0
S7 communication:	0	-	0	0
Open user communication:	0	-	0	0
Web communication:	2	-	-	-
OPC UA client/server communication:	0	-	-	-
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		10	118	128

Overview of addresses\Overview of addresses\Overview of addresses

Inputs	True	Outputs	True	Address gaps	False
Slot	True				

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training</div> <div>Ungrouped devices</div> <div>This folder is empty.</div>		

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training</div> <div>Security settings</div> <div>This folder is empty.</div>		

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / Cross-device functions / Project traces</div> <div>Measurements</div> <div>This folder is empty.</div>		

Totally Integrated Automation Portal																		
<div>Understanding FB and FC_Training / Common data</div> <div>Alarm classes</div> <table><tr><th colspan="4">Alarm classes</th></tr><tr><th>Name</th><th>Display name</th><th>Acknowledgment</th><th>Priority</th></tr><tr><td>Acknowledgement</td><td>A</td><td>True</td><td>0</td></tr><tr><td>No Acknowledgement</td><td>NA</td><td>False</td><td>0</td></tr></table>			Alarm classes				Name	Display name	Acknowledgment	Priority	Acknowledgement	A	True	0	No Acknowledgement	NA	False	0
Alarm classes																		
Name	Display name	Acknowledgment	Priority															
Acknowledgement	A	True	0															
No Acknowledgement	NA	False	0															

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / Common data</div> <div>Logs</div> <div>This folder is empty.</div>		

Totally Integrated Automation Portal		
<div>Understanding FB and FC_Training / Languages & resources</div> <div>Project languages</div> <div><div>Languages</div><div>Reference language</div><div>English (United States)</div><div>Editing language</div><div>English (United States)</div><div>Other project languages</div><div>Empty</div></div>		

Totally Integrated Automation Portal																										
<div>Understanding FB and FC_Training / Languages & resources / Project texts</div> <div>Project texts</div> <table><tr><th colspan="3">Project texts</th></tr><tr><th>English (United States)</th><th>Category</th><th>Reference</th></tr><tr><td>"Complete Restart"</td><td>Block comment</td><td>Understanding FB and FC_Training\PLC_1 [CPU 1516-3 PN/DP]\Program blocks\Startup [OB100]\Block title</td></tr><tr><td>"Main Program Sweep (Cycle)"</td><td>Block comment</td><td>Understanding FB and FC_Training\PLC_1 [CPU 1516-3 PN/DP]\Program blocks\Main [OB1]\Block title</td></tr><tr><td>A</td><td>Alarm class text</td><td>Understanding FB and FC_Training\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName</td></tr><tr><td>A</td><td>Alarm class text</td><td>Understanding FB and FC_Training\Acknowledgement\ShortName</td></tr><tr><td>NA</td><td>Alarm class text</td><td>Understanding FB and FC_Training\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName</td></tr><tr><td>NA</td><td>Alarm class text</td><td>Understanding FB and FC_Training\No Acknowledgement\ShortName</td></tr></table>			Project texts			English (United States)	Category	Reference	"Complete Restart"	Block comment	Understanding FB and FC_Training\PLC_1 [CPU 1516-3 PN/DP]\Program blocks\Startup [OB100]\Block title	"Main Program Sweep (Cycle)"	Block comment	Understanding FB and FC_Training\PLC_1 [CPU 1516-3 PN/DP]\Program blocks\Main [OB1]\Block title	A	Alarm class text	Understanding FB and FC_Training\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName	A	Alarm class text	Understanding FB and FC_Training\Acknowledgement\ShortName	NA	Alarm class text	Understanding FB and FC_Training\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName	NA	Alarm class text	Understanding FB and FC_Training\No Acknowledgement\ShortName
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