

A B C D E F G H I J

0

Documentation for solution

1

3

Project CRC: 0x050D

Programmer:

4

Print Name

Signature

Date

Customer:

5

Print Name

Signature

Date

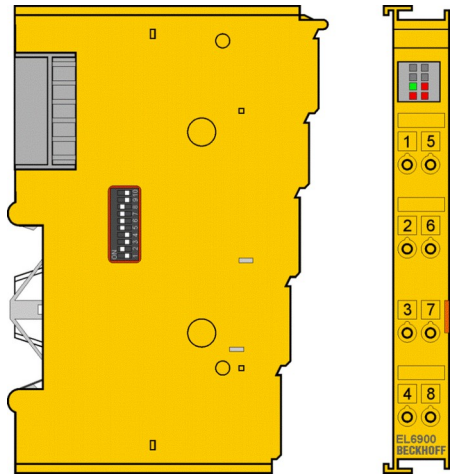
Date 18.8.2021
Editor Automaatio
Plot 18.8.2021



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Target System



Platform: EL6900

Parameters

Version number: 1
Serial Number: 804893
Type: EL6900, TwinSAFE PLC
Product/Revision: EL6900-0000-0018
Auto Inc Addr: 65526
EtherCAT Addr: 1011
Previous Port: B1010

Safety Project

Project CRC: 0x050D

Safe address: 1

Switch setting:

	1	2	3	4	5	6	7	8	9	10
On	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Alias Device Overview

Group : TwinSafeGroup1	4
Term 12 (EL1904) - Module 1 (FSOES)	5
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Standard Variables Table	11

A

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Group : TwinSafeGroup1

0

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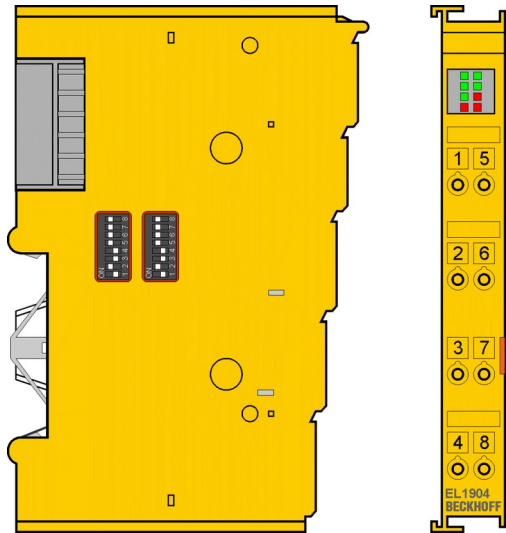
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BECKHOFF
Beckhoff Automation GmbH

Group : TwinSafeGroup1

Term 12 (EL1904) - Module 1 (FSOES)

Type: 4 digital inputs (EtherCAT)



EtherCAT Parameter

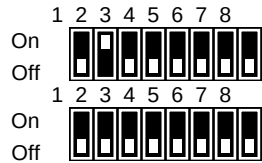
Type: EL1904, 4 Ch. Safety Input 24V, TwinSAFE
 Product/Revision: EL1904-0000-0018
 Auto Inc Addr: 65525
 EtherCAT Addr: 1012
 Identification Value:
 Previous Port: B1011

TwinSAFE Connection Parameter

Name: Message_2
 Conn-No: 1
 Conn-Id: 1
 FSoE Watchdog: 100
 Mode: FSoE_master

FSoE address: 2

Switch setting:



Term 12 (EL1904) - Module 1 (FSOES)

8000:01 Operating Mode: digital (0)
8001:01 Sensor test Channel 1 active: TRUE (1)
8001:02 Sensor test Channel 2 active: TRUE (1)
8001:03 Sensor test Channel 3 active: TRUE (1)
8001:04 Sensor test Channel 4 active: TRUE (1)
8002:01 Logic of Channel 1 and 2: single logic channel 1/2 (0)
8002:03 Logic of Channel 3 and 4: single logic channel 3/4 (0)

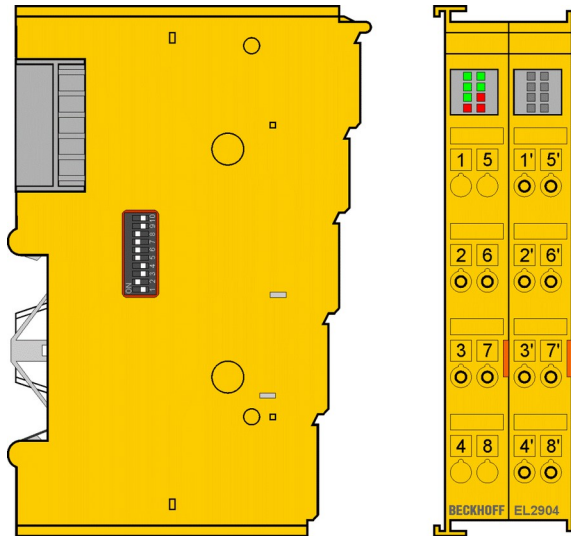
Term 12 (EL1904) - Module 1 (FSOES)

Type: 4 digital inputs (EtherCAT)

Channel	Connection Name
InputChannel1	AssignedVariable : EStopIn1 (TwinSafeGroup1)
InputChannel3	AssignedVariable : EStopIn3 (TwinSafeGroup1)

Term 13 (EL2904) - Module 1 (FSOES)

Type: 4 digital outputs (EtherCAT)



EtherCAT Parameter

Type: EL2904, 4 Ch. Safety Output 24V, 0.5A, TwinSAFE
Product/Revision: EL2904-0000-0018
Auto Inc Addr: 65524
EtherCAT Addr: 1013
Identification Value:
Previous Port: B1012

TwinSAFE Connection Parameter

Name: Message_3
Conn-No: 2
Conn-Id: 2
FSOE Watchdog: 100
Mode: FSoE_master

FSOE address: 3

Switch setting:

1	2	3	4	5	6	7	8	9	10
On	Off	Off	Off	Off	Off	Off	Off	Off	Off
Off	Off	Off	Off	Off	Off	Off	Off	Off	Off

Term 13 (EL2904) - Module 1 (FSOES)

8000:01 Standard outputs active: FALSE (0)
8000:02 Current measurement active: TRUE (1)
8000:03 Testing of outputs active: TRUE (1)
8000:04 Error acknowledge active: FALSE (0)

Term 13 (EL2904) - Module 1 (FSOES)

Type: 4 digital outputs (EtherCAT)

Channel	Connection Name
OutputChannel1	AssignedVariable : EStopK1 (TwinSafeGroup1)

Standard Variables Table

Alias Device	Information
ComErr	Type : BIT From : - TwinSafeGroup1.Com Err (TwinSafeGroup1) To : - TIPC^iCIM_Miniload^iCIM_Miniload Instance^PlcTask Inputs^GVL_IO.I_bComErr
Enable	Type : BIT From : - Enable (TwinSafeGroup1) To : - TIPC^iCIM_Miniload^iCIM_Miniload Instance^PlcTask Inputs^GVL_IO.I_bEnable
ErrorAcknowledgement	Type : BIT From : - TIPC^iCIM_Miniload^iCIM_Miniload Instance^PlcTask Outputs^GVL_IO.O_bErrAck To : - TwinSafeGroup1.Err Ack (TwinSafeGroup1)
EStopError	Type : BIT From : - EStopError (TwinSafeGroup1) To : - TIPC^iCIM_Miniload^iCIM_Miniload Instance^PlcTask Inputs^GVL_IO.I_bEStopError
EStopReset	Type : BIT From : - TIPC^iCIM_Miniload^iCIM_Miniload Instance^PlcTask Outputs^GVL_IO.O_bEStopReset To : - EStopReset (TwinSafeGroup1)
FBErr	Type : BIT From : - TwinSafeGroup1.FB Err (TwinSafeGroup1)

Standard Variables Table

0
1
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5

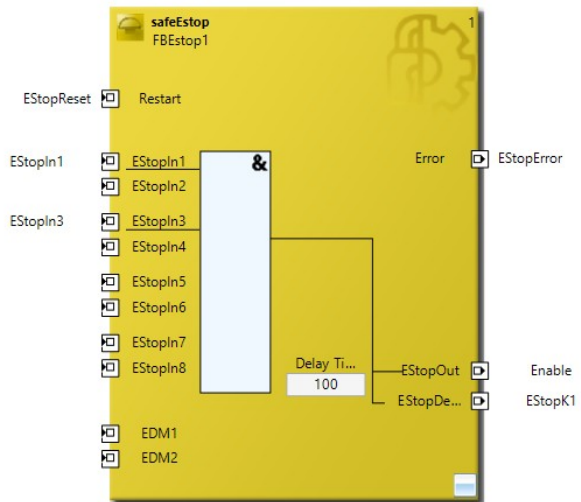
Alias Device	Information
	Tp : -

Function Block Overview

Group : TwinSafeGroup1	14
Network : Network1	16
FBEstop1	17

Group : TwinSafeGroup1

Network1

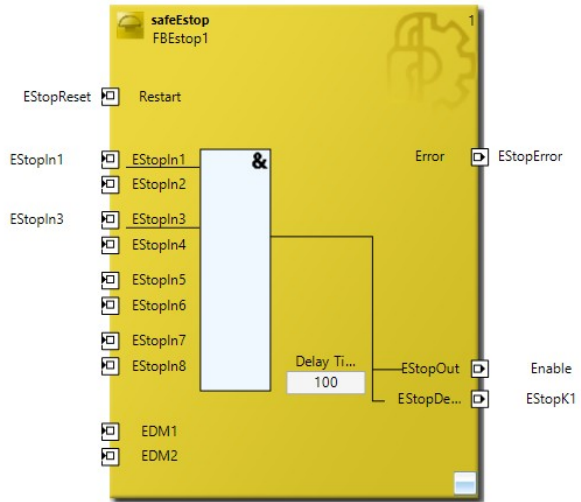


Map State: False

Map Diag: False

Group : TwinSafeGroup1

Network1



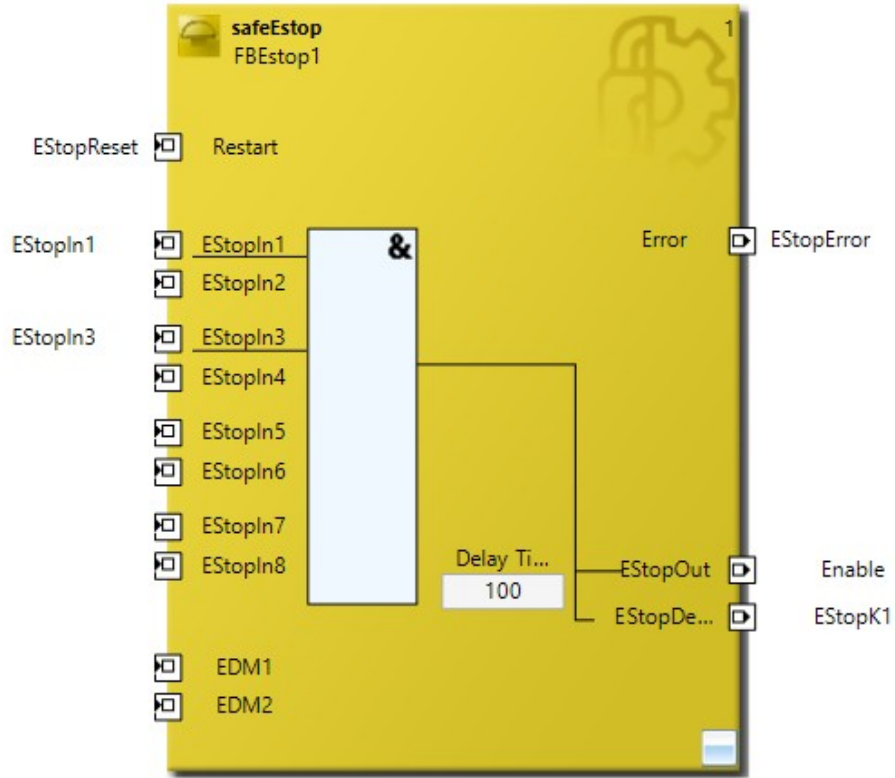
Map State: False

Map Diag: False

Crop: 1

Network : Network1

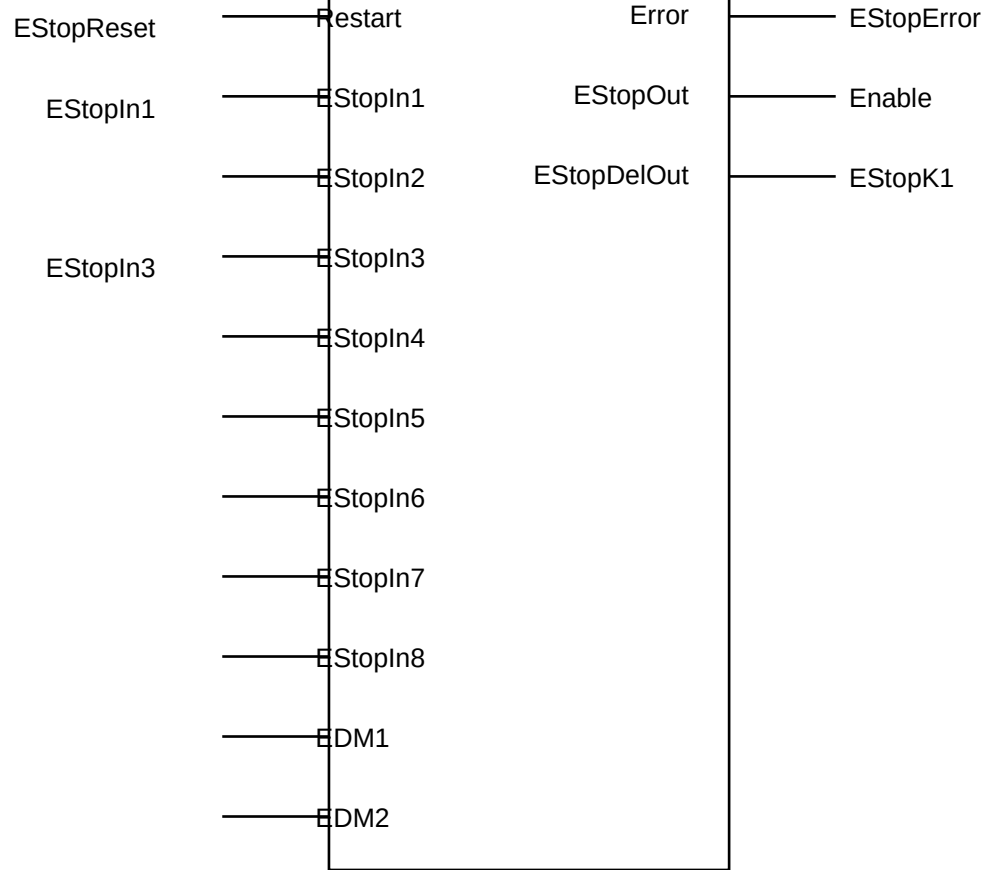
Network1



Map State: False

Map Diag: False

FBEstop1



Type: safeEstop
 Map State: False
 Map Diag: False
 Order of Execution: 1

Delay Time (ms): 100

FBStop1

Type: safeEstop

FunctionBlockPort	Connection Name
Restart	AssignedVariable : EStopReset : EStopReset.In (TwinSafeGroup1)
EStopIn1	AssignedVariable : EStopIn1 : Term 12 (EL1904) - Module 1 (FSOES).InputChannel1 (TwinSafeGroup1)
EStopIn3	AssignedVariable : EStopIn3 : Term 12 (EL1904) - Module 1 (FSOES).InputChannel3 (TwinSafeGroup1)
Error	AssignedVariable : EStopError : EStopError.Out (TwinSafeGroup1)
EStopOut	AssignedVariable : Enable : Enable.Out (TwinSafeGroup1)
EStopDelOut	AssignedVariable : EStopK1 : Term 13 (EL2904) - Module 1 (FSOES).OutputChannel1 (TwinSafeGroup1)