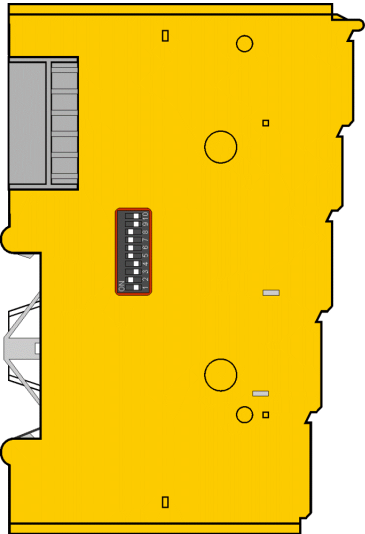
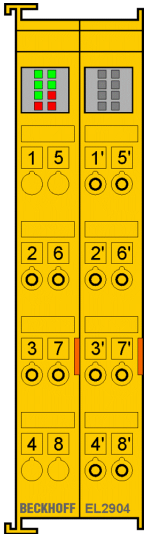



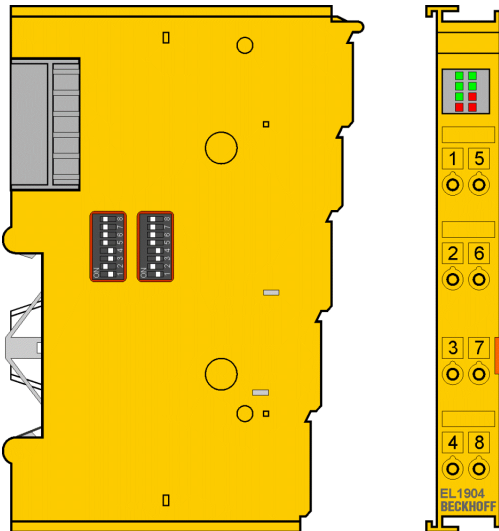
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2	Documentation for solution									
3	Tc3_Beispiel									
4	TsPrg1									
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Editor		Michael Golz																	
Plot		11.03.2016																	
				Beckhoff Automation GmbH & Co. KG														Page Number: 3	

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0	<h1>TwinSafeGroup1</h1>									
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0	Term 16 (EL2904) - Module 1 (FSOES) Type: 4 digital outputs (EtherCAT)																															
1	<div>   <div> Channel 1:  K1_Conductor (saf eBool) </div> </div>																															
2	<div> <div> EtherCAT Parameter Type: EL2904, 4 Ch. Safety Output 24 V, 0.5A, TwinSAFE Product/Revision: EL2904-0000-0018 Auto Inc Addr: FFF2 EtherCAT Addr: 1014 Identification Value: 0 Previous Port: -B </div> <div> Safe Parameter Standard outputs active: FALSE Current measurement active: TRUE Testing of outputs active: TRUE Error acknowledge active: FALSE </div> </div>																															
3	<div> FSOE address: 30 Switch setting: <table> <tr> <td>On</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td>Off</td> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> </table> </div>										On	1	2	3	4	5	6	7	8	9	10	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"/>
On	1	2	3	4	5	6	7	8	9	10																						
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"/>																						
4	<div> TwinSAFE Connection Parameter Name: Message_3 Conn-No: 2 Conn-Id: 2 FSOE Watchdog: 100 Mode: TwinSAFE Master </div>																															
5																																
6																																
7																																

	A	B	C	D	E	F	G	H	I	J
0	Term 22 (EL1904) - Module 1 (FSOES)									
	Type: 4 digital inputs (EtherCAT)									
1				Channel 1: ➡ S32_STO_Ch1 (safe Bool)	<div>EtherCAT Parameter Type: EL1904, 4 Ch. Safety Input 24V , TwinSAFE Product/Revision: EL1904-0000-0018 Auto Inc Addr: FFEA EtherCAT Addr: 1011 Identification Value: 0 Previous Port: -C Safe Parameter FS Operating Mode: digital Sensor Test Channel 1 active: TRUE Sensor Test Channel 2 active: TRUE Sensor Test Channel 3 active: TRUE Sensor Test Channel 4 active: TRUE Logic of Ch1 and Ch2: single logic channel 1/2 Logic of Ch3 and Ch4: single logic channel 3/4</div>					
2				Channel 2: ➡ S32_STO_Ch2 (safe Bool)						
3				Channel 3: ➡ S33_STO_bridging_Ch1 (safeBool)						
4				Channel 4: ➡ S33_STO_bridging_Ch2 (safeBool)						
5	FSoE address: 11									
	Switch setting: <div>9 10 11 12 13 14 15 16 On Off 1 2 3 4 5 6 7 8 On Off </div>									
6	TwinSAFE Connection Parameter Name: Message_4 Conn-No: 3 Conn-Id: 3 FSoE Watchdog: 100 Mode: TwinSAFE Master									
7										

Term 32 (AX5805) - Module 1 (Safety Process Data, ...

Type: Drive Option Card - AX5805 (2 axes, FW 5)



Axis 1 Input : ➡

Axis 1 Output : ➡

Axis 2 Input : ➡

Axis 2 Output : ➡

FSoE address: 40

Switch setting: On ☒ 1 ☒ 2 ☒ 3 ☒ 4 ☒ 5 ☒ 6 ☒ 7 ☒ 8 ☒ 9 ☒ 10
Off ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

TwinSAFE Connection Parameter

Name: Message_5
Conn-No: 4
Conn-Id: 4
FSoE Watchdog: 150
Mode: TwinSAFE Master

EtherCAT Parameter

Type: AX5805 (Safety Drive Option)
Product/Revision: AX5805-0000-0018
Auto Inc Addr: FFEC
EtherCAT Addr: 1011
Identification Value: 0
Previous Port: -C

Safe Parameter

Axis:	1	2
Motor_Type:	0	0
Motor_Polepairs:	3	3
Reference_Position_Window:	0	0
Reference_Position_Inputpin:	0	0
Reference_Position:	0	0
Reference_Position_UpperLimit:	0	0
Reference_Position_LowerLimit:	0	0
Speed_Compare_Window:	180	180
Speed_Compare_Violationlevel:	20	20
Speed_Compare_Filter:	10	10
ESTOP_Ramp_Time:	0	0
Motor_Default_Data:	0	0
STO_Mode_Active:	FALSE	FALSE
Current_Compare_Violationlevel:	100	100
Number_of_Axis:	2	
Debug_Mode_Active:	FALSE	
Reserved:	FALSE	

	A	B	C	D	E	F	G	H	I	J																																												
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)																																																					
	Type: Drive Option Card - AX5805 (2 axes, FW 5)																																																					
1	<table><tr><th>Channel</th><th>Connection Name</th></tr><tr><td>Input</td><td></td></tr><tr><td>1 Axis-STO</td><td>AX5805_EDM_ChA (safeBool)</td></tr><tr><td>2 Axis-STO</td><td>AX5805_EDM_ChB (safeBool)</td></tr><tr><td>Output</td><td></td></tr><tr><td>1 Axis-STO</td><td>AX5805_STO_ChA_ChB (safeBool)</td></tr><tr><td>1 Axis-SS1(1)</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>1 Axis-SS2(1)</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>1 Axis-SOS(1)</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>1 Axis-SSR(1)</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>1 Axis-SDIp</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>1 Axis-SDIn</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>1 Axis-ErrAck</td><td>ResetAX5805 (safeBool)</td></tr><tr><td>2 Axis-STO</td><td>AX5805_STO_ChA_ChB (safeBool)</td></tr><tr><td>2 Axis-SS1(1)</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>2 Axis-SS2(1)</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>2 Axis-SOS(1)</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>2 Axis-SSR(1)</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>2 Axis-SDIp</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>2 Axis-SDIn</td><td>AX5805NotInUse (safeBool)</td></tr><tr><td>2 Axis-ErrAck</td><td>ResetAX5805 (safeBool)</td></tr><tr><td></td><td></td></tr></table>										Channel	Connection Name	Input		1 Axis-STO	AX5805_EDM_ChA (safeBool)	2 Axis-STO	AX5805_EDM_ChB (safeBool)	Output		1 Axis-STO	AX5805_STO_ChA_ChB (safeBool)	1 Axis-SS1(1)	AX5805NotInUse (safeBool)	1 Axis-SS2(1)	AX5805NotInUse (safeBool)	1 Axis-SOS(1)	AX5805NotInUse (safeBool)	1 Axis-SSR(1)	AX5805NotInUse (safeBool)	1 Axis-SDIp	AX5805NotInUse (safeBool)	1 Axis-SDIn	AX5805NotInUse (safeBool)	1 Axis-ErrAck	ResetAX5805 (safeBool)	2 Axis-STO	AX5805_STO_ChA_ChB (safeBool)	2 Axis-SS1(1)	AX5805NotInUse (safeBool)	2 Axis-SS2(1)	AX5805NotInUse (safeBool)	2 Axis-SOS(1)	AX5805NotInUse (safeBool)	2 Axis-SSR(1)	AX5805NotInUse (safeBool)	2 Axis-SDIp	AX5805NotInUse (safeBool)	2 Axis-SDIn	AX5805NotInUse (safeBool)	2 Axis-ErrAck	ResetAX5805 (safeBool)		
Channel	Connection Name																																																					
Input																																																						
1 Axis-STO	AX5805_EDM_ChA (safeBool)																																																					
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	A	B	C	D	E	F	G	H	I	J	
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)										
	Type: Drive Option Card - AX5805 (2 axes, FW 5)										
1											
2											
3											
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Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
#x101800	4	4	#x160014	1850736897	6E500101	#x1A0002	1715470337	66400001	#x1A001B	1	1
#x101801	2	2	#x160015	1852834049	6E700101	#x1A0003	1725956353	66E00101	#x1A001C	1	1
#x101802	380461074	16AD6012	#x160016	1852309761	6E680101	#x1A0004	1725956609	66E00201	#x1A001D	1	1
#x101803	0	0	#x160017	1853882625	6E800101	#x1A0005	1718092033	66680101	#x1A001E	1	1
#x101804	0	0	#x160018	1859125249	6ED00001	#x1A0006	1719664897	66800101	#x1A001F	1	1
#x160000	36	24	#x160019	1859190785	6ED10001	#x1A0007	1724907521	66D00001	#x1A0020	1	1
#x160001	3875537160	E7000108	#x16001A	1848770561	6E320001	#x1A0008	1724973057	66D10001	#x1A0021	1	1
#x160002	1715470337	66400001	#x16001B	1	1	#x1A0009	1714552833	66320001	#x1A0022	1	1
#x160003	1716519169	66500101	#x16001C	1	1	#x1A000A	1	1	#x1A0023	3858760720	E6000410
#x160004	1718616321	66700101	#x16001D	1	1	#x1A000B	1	1	#x1A0024	3858760208	E6000210
#x160005	1718092033	66680101	#x16001E	1	1	#x1A000C	1	1	#x1A0100	2	2
#x160006	1719664897	66800101	#x16001F	1	1	#x1A000D	1	1	#x1A0101	1712390176	66110020
#x160007	1724907521	66D00001	#x160020	1	1	#x1A000E	1	1	#x1A0102	1712521248	66130020
#x160008	1724973057	66D10001	#x160021	1	1	#x1A000F	1	1	#x1A0200	2	2
#x160009	1714552833	66320001	#x160022	1	1	#x1A0010	1	1	#x1A0201	1846607904	6E110020
#x16000A	1	1	#x160023	3875537936	E7000410	#x1A0011	1	1	#x1A0202	1846738976	6E130020
#x16000B	1	1	#x160024	3875537424	E7000210	#x1A0012	3858760464	E6000310	#x200000	0	0
#x16000C	1	1	#x160100	2	2	#x1A0013	1849688065	6E400001	#x200100	16	10
#x16000D	1	1	#x160101	542113824	20500020	#x1A0014	1860174081	6EE00101	#x200101	19777	4D41
#x16000E	1	1	#x160102	542179360	20510020	#x1A0015	1860174337	6EE00201	#x200102	12600	3138
#x16000F	1	1	#x160200	2	2	#x1A0016	1852309761	6E680101	#x200103	12593	3131
#x160010	1	1	#x160201	676331552	28500020	#x1A0017	1853882625	6E800101	#x200104	30765	782D
#x160011	1	1	#x160202	676397088	28510020	#x1A0018	1859125249	6ED00001	#x200105	30790	7846
#x160012	3875537680	E7000310	#x1A0000	36	24	#x1A0019	1859190785	6ED10001			
#x160013	1849688065	6E400001	#x1A0001	3858759944	E6000108	#x1A001A	1848770561	6E320001			

	A	B	C	D	E	F	G	H	I	J		
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
	Type: Drive Option Card - AX5805 (2 axes, FW 5)											
1	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
2	#x200106	48	30	#x204100	0	0	#x281200	0	0	#x661300	0	0
	#x200107	0	0	#x204300	100	64	#x281300	0	0	#x661500	0	0
	#x200108	0	0	#x205000	0	0	#x281400	0	0	#x661600	0	0
	#x200109	0	0	#x205100	0	0	#x281500	2	2	#x662000	2	2
	#x20010A	0	0	#x280000	0	0	#x281501	0	0	#x662001	0	0
3	#x20010B	0	0	#x280100	16	10	#x281502	0	0	#x662002	0	0
	#x20010C	0	0	#x280101	19777	4D41	#x282000	180	B4	#x662100	2	2
	#x20010D	0	0	#x280102	12600	3138	#x282100	20	14	#x662101	0	0
	#x20010E	0	0	#x280103	12593	3131	#x282200	10	A	#x662102	0	0
	#x20010F	0	0	#x280104	30765	782D	#x283000	0	0	#x663000	0	0
4	#x200110	0	0	#x280105	30790	7846	#x284000	0	0	#x663200	0	0
	#x200200	3	3	#x280106	49	31	#x284100	0	0	#x664000	0	0
	#x201000	0	0	#x280107	0	0	#x284300	100	64	#x664200	0	0
	#x201100	0	0	#x280108	0	0	#x285000	0	0	#x665000	8	8
	#x201200	0	0	#x280109	0	0	#x285100	0	0	#x665001	0	0
5	#x201300	0	0	#x28010A	0	0	#x2F0000	2	2	#x665002	0	0
	#x201400	0	0	#x28010B	0	0	#x2F0200	0	0	#x665003	0	0
	#x201500	2	2	#x28010C	0	0	#x2F0300	0	0	#x665004	0	0
	#x201501	0	0	#x28010D	0	0	#x660000	0	0	#x665005	0	0
	#x201502	0	0	#x28010E	0	0	#x660100	0	0	#x665006	0	0
6	#x202000	180	B4	#x28010F	0	0	#x660200	0	0	#x665007	0	0
	#x202100	20	14	#x280110	0	0	#x660300	0	0	#x665008	0	0
	#x202200	10	A	#x280200	3	3	#x660400	0	0	#x665100	8	8
	#x203000	0	0	#x281000	0	0	#x660800	0	0	#x665101	0	0
	#x204000	0	0	#x281100	0	0	#x661100	0	0	#x665102	0	0
7												

	A	B	C	D	E	F	G	H	I	J		
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
	Type: Drive Option Card - AX5805 (2 axes, FW 5)											
1	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
2	#x665103	0	0	#x666801	0	0	#x667008	0	0	#x667606	0	0
	#x665104	0	0	#x666802	0	0	#x667100	8	8	#x667607	0	0
	#x665105	0	0	#x666803	0	0	#x667101	0	0	#x667608	0	0
	#x665106	0	0	#x666804	0	0	#x667102	0	0	#x667900	8	8
	#x665107	0	0	#x666805	0	0	#x667103	0	0	#x667901	0	0
3	#x665108	0	0	#x666806	0	0	#x667104	0	0	#x667902	0	0
	#x665300	8	8	#x666807	0	0	#x667105	0	0	#x667903	0	0
	#x665301	0	0	#x666808	0	0	#x667106	0	0	#x667904	0	0
	#x665302	0	0	#x666A00	8	8	#x667107	0	0	#x667905	0	0
	#x665303	0	0	#x666A01	0	0	#x667108	0	0	#x667906	0	0
4	#x665304	0	0	#x666A02	0	0	#x667200	8	8	#x667907	0	0
	#x665305	0	0	#x666A03	0	0	#x667201	0	0	#x667908	0	0
	#x665306	0	0	#x666A04	0	0	#x667202	0	0	#x668000	8	8
	#x665307	0	0	#x666A05	0	0	#x667203	0	0	#x668001	0	0
	#x665308	0	0	#x666A06	0	0	#x667204	0	0	#x668002	0	0
5	#x665400	8	8	#x666A07	0	0	#x667205	0	0	#x668003	0	0
	#x665401	0	0	#x666A08	0	0	#x667206	0	0	#x668004	0	0
	#x665402	0	0	#x667000	8	8	#x667207	0	0	#x668005	0	0
	#x665403	0	0	#x667001	0	0	#x667208	0	0	#x668006	0	0
	#x665404	0	0	#x667002	0	0	#x667600	8	8	#x668007	0	0
6	#x665405	0	0	#x667003	0	0	#x667601	0	0	#x668008	0	0
	#x665406	0	0	#x667004	0	0	#x667602	0	0	#x668100	8	8
	#x665407	0	0	#x667005	0	0	#x667603	0	0	#x668101	0	0
	#x665408	0	0	#x667006	0	0	#x667604	0	0	#x668102	0	0
	#x666800	8	8	#x667007	0	0	#x667605	0	0	#x668103	0	0

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A	B	C	D	E	F	G	H	I	J		
Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
Type: Drive Option Card - AX5805 (2 axes, FW 5)											
Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
#x668104	0	0	#x668602	0	0	#x669100	8	8	#x669407	0	0
#x668105	0	0	#x668603	0	0	#x669101	0	0	#x669408	0	0
#x668106	0	0	#x668604	0	0	#x669102	0	0	#x669800	8	8
#x668107	0	0	#x668605	0	0	#x669103	0	0	#x669801	1715470337	66400001
#x668108	0	0	#x668606	0	0	#x669104	0	0	#x669802	1715470337	66400001
#x668300	8	8	#x668607	0	0	#x669105	0	0	#x669803	1715470337	66400001
#x668301	0	0	#x668608	0	0	#x669106	0	0	#x669804	1715470337	66400001
#x668302	0	0	#x668A00	8	8	#x669107	0	0	#x669805	1715470337	66400001
#x668303	0	0	#x668A01	1715470337	66400001	#x669108	0	0	#x669806	1715470337	66400001
#x668304	0	0	#x668A02	1715470337	66400001	#x669300	8	8	#x669807	1715470337	66400001
#x668305	0	0	#x668A03	1715470337	66400001	#x669301	0	0	#x669808	1715470337	66400001
#x668306	0	0	#x668A04	1715470337	66400001	#x669302	0	0	#x66A000	8	8
#x668307	0	0	#x668A05	1715470337	66400001	#x669303	0	0	#x66A001	0	0
#x668308	0	0	#x668A06	1715470337	66400001	#x669304	0	0	#x66A002	0	0
#x668500	8	8	#x668A07	1715470337	66400001	#x669305	0	0	#x66A003	0	0
#x668501	0	0	#x668A08	1715470337	66400001	#x669306	0	0	#x66A004	0	0
#x668502	0	0	#x669000	8	8	#x669307	0	0	#x66A005	0	0
#x668503	0	0	#x669001	0	0	#x669308	0	0	#x66A006	0	0
#x668504	0	0	#x669002	0	0	#x669400	8	8	#x66A007	0	0
#x668505	0	0	#x669003	0	0	#x669401	0	0	#x66A008	0	0
#x668506	0	0	#x669004	0	0	#x669402	0	0	#x66A200	8	8
#x668507	0	0	#x669005	0	0	#x669403	0	0	#x66A201	0	0
#x668508	0	0	#x669006	0	0	#x669404	0	0	#x66A202	0	0
#x668600	8	8	#x669007	0	0	#x669405	0	0	#x66A203	0	0
#x668601	0	0	#x669008	0	0	#x669406	0	0	#x66A204	0	0

	A	B	C	D	E	F	G	H	I	J		
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
	Type: Drive Option Card - AX5805 (2 axes, FW 5)											
1	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
2	#x66A205	0	0	#x66AD00	1715470337	66400001	#x66BC06	0	0	#x66C204	0	0
	#x66A206	0	0	#x66B800	8	8	#x66BC07	0	0	#x66C205	0	0
	#x66A207	0	0	#x66B801	0	0	#x66BC08	0	0	#x66C206	0	0
	#x66A208	0	0	#x66B802	0	0	#x66BD00	8	8	#x66C207	0	0
	#x66A400	8	8	#x66B803	0	0	#x66BD01	1715470337	66400001	#x66C208	0	0
3	#x66A401	0	0	#x66B804	0	0	#x66BD02	1715470337	66400001	#x66C400	8	8
	#x66A402	0	0	#x66B805	0	0	#x66BD03	1715470337	66400001	#x66C401	0	0
	#x66A403	0	0	#x66B806	0	0	#x66BD04	1715470337	66400001	#x66C402	0	0
	#x66A404	0	0	#x66B807	0	0	#x66BD05	1715470337	66400001	#x66C403	0	0
	#x66A405	0	0	#x66B808	0	0	#x66BD06	1715470337	66400001	#x66C404	0	0
4	#x66A406	0	0	#x66BA00	8	8	#x66BD07	1715470337	66400001	#x66C405	0	0
	#x66A407	0	0	#x66BA01	0	0	#x66BD08	1715470337	66400001	#x66C406	0	0
	#x66A408	0	0	#x66BA02	0	0	#x66C000	8	8	#x66C407	0	0
	#x66A500	8	8	#x66BA03	0	0	#x66C001	0	0	#x66C408	0	0
	#x66A501	1715470337	66400001	#x66BA04	0	0	#x66C002	0	0	#x66C500	8	8
5	#x66A502	1715470337	66400001	#x66BA05	0	0	#x66C003	0	0	#x66C501	1715470337	66400001
	#x66A503	1715470337	66400001	#x66BA06	0	0	#x66C004	0	0	#x66C502	1715470337	66400001
	#x66A504	1715470337	66400001	#x66BA07	0	0	#x66C005	0	0	#x66C503	1715470337	66400001
	#x66A505	1715470337	66400001	#x66BA08	0	0	#x66C006	0	0	#x66C504	1715470337	66400001
	#x66A506	1715470337	66400001	#x66BC00	8	8	#x66C007	0	0	#x66C505	1715470337	66400001
6	#x66A507	1715470337	66400001	#x66BC01	0	0	#x66C008	0	0	#x66C506	1715470337	66400001
	#x66A508	1715470337	66400001	#x66BC02	0	0	#x66C200	8	8	#x66C507	1715470337	66400001
	#x66A800	0	0	#x66BC03	0	0	#x66C201	0	0	#x66C508	1715470337	66400001
	#x66AA00	0	0	#x66BC04	0	0	#x66C202	0	0	#x66C800	0	0
	#x66AC00	0	0	#x66BC05	0	0	#x66C203	0	0	#x66CA00	0	0

	A	B	C	D	E	F	G	H	I	J		
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
	Type: Drive Option Card - AX5805 (2 axes, FW 5)											
1	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
2	#x66CC00	0	0	#x66E402	0	0	#x66EC00	8	8	#x6E3200	0	0
	#x66CD00	1715470337	66400001	#x66E403	0	0	#x66EC01	0	0	#x6E4000	0	0
	#x66D000	0	0	#x66E404	0	0	#x66EC02	0	0	#x6E4200	0	0
	#x66D100	0	0	#x66E405	0	0	#x66EC03	0	0	#x6E5000	8	8
	#x66D300	0	0	#x66E406	0	0	#x66EC04	0	0	#x6E5001	0	0
3	#x66E000	8	8	#x66E407	0	0	#x66EC05	0	0	#x6E5002	0	0
	#x66E001	0	0	#x66E408	0	0	#x66EC06	0	0	#x6E5003	0	0
	#x66E002	0	0	#x66E800	8	8	#x66EC07	0	0	#x6E5004	0	0
	#x66E003	0	0	#x66E801	0	0	#x66EC08	0	0	#x6E5005	0	0
	#x66E004	0	0	#x66E802	0	0	#x6E0000	0	0	#x6E5006	0	0
4	#x66E005	0	0	#x66E803	0	0	#x6E0100	0	0	#x6E5007	0	0
	#x66E006	0	0	#x66E804	0	0	#x6E0200	0	0	#x6E5008	0	0
	#x66E007	0	0	#x66E805	0	0	#x6E0300	0	0	#x6E5100	8	8
	#x66E008	0	0	#x66E806	0	0	#x6E0400	0	0	#x6E5101	0	0
	#x66E200	8	8	#x66E807	0	0	#x6E1100	0	0	#x6E5102	0	0
5	#x66E201	0	0	#x66E808	0	0	#x6E1300	0	0	#x6E5103	0	0
	#x66E202	0	0	#x66EA00	8	8	#x6E1500	0	0	#x6E5104	0	0
	#x66E203	0	0	#x66EA01	0	0	#x6E1600	0	0	#x6E5105	0	0
	#x66E204	0	0	#x66EA02	0	0	#x6E2000	2	2	#x6E5106	0	0
	#x66E205	0	0	#x66EA03	0	0	#x6E2001	0	0	#x6E5107	0	0
6	#x66E206	0	0	#x66EA04	0	0	#x6E2002	0	0	#x6E5108	0	0
	#x66E207	0	0	#x66EA05	0	0	#x6E2100	2	2	#x6E5300	8	8
	#x66E208	0	0	#x66EA06	0	0	#x6E2101	0	0	#x6E5301	0	0
	#x66E400	8	8	#x66EA07	0	0	#x6E2102	0	0	#x6E5302	0	0
	#x66E401	0	0	#x66EA08	0	0	#x6E3000	0	0	#x6E5303	0	0
7												

	A	B	C	D	E	F	G	H	I	J		
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
	Type: Drive Option Card - AX5805 (2 axes, FW 5)											
1	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
2	#x6E5304	0	0	#x6E6A02	0	0	#x6E7200	8	8	#x6E7907	0	0
	#x6E5305	0	0	#x6E6A03	0	0	#x6E7201	0	0	#x6E7908	0	0
	#x6E5306	0	0	#x6E6A04	0	0	#x6E7202	0	0	#x6E8000	8	8
	#x6E5307	0	0	#x6E6A05	0	0	#x6E7203	0	0	#x6E8001	0	0
	#x6E5308	0	0	#x6E6A06	0	0	#x6E7204	0	0	#x6E8002	0	0
3	#x6E5400	8	8	#x6E6A07	0	0	#x6E7205	0	0	#x6E8003	0	0
	#x6E5401	0	0	#x6E6A08	0	0	#x6E7206	0	0	#x6E8004	0	0
	#x6E5402	0	0	#x6E7000	8	8	#x6E7207	0	0	#x6E8005	0	0
	#x6E5403	0	0	#x6E7001	0	0	#x6E7208	0	0	#x6E8006	0	0
	#x6E5404	0	0	#x6E7002	0	0	#x6E7600	8	8	#x6E8007	0	0
4	#x6E5405	0	0	#x6E7003	0	0	#x6E7601	0	0	#x6E8008	0	0
	#x6E5406	0	0	#x6E7004	0	0	#x6E7602	0	0	#x6E8100	8	8
	#x6E5407	0	0	#x6E7005	0	0	#x6E7603	0	0	#x6E8101	0	0
	#x6E5408	0	0	#x6E7006	0	0	#x6E7604	0	0	#x6E8102	0	0
	#x6E6800	8	8	#x6E7007	0	0	#x6E7605	0	0	#x6E8103	0	0
5	#x6E6801	0	0	#x6E7008	0	0	#x6E7606	0	0	#x6E8104	0	0
	#x6E6802	0	0	#x6E7100	8	8	#x6E7607	0	0	#x6E8105	0	0
	#x6E6803	0	0	#x6E7101	0	0	#x6E7608	0	0	#x6E8106	0	0
	#x6E6804	0	0	#x6E7102	0	0	#x6E7900	8	8	#x6E8107	0	0
	#x6E6805	0	0	#x6E7103	0	0	#x6E7901	0	0	#x6E8108	0	0
6	#x6E6806	0	0	#x6E7104	0	0	#x6E7902	0	0	#x6E8300	8	8
	#x6E6807	0	0	#x6E7105	0	0	#x6E7903	0	0	#x6E8301	0	0
	#x6E6808	0	0	#x6E7106	0	0	#x6E7904	0	0	#x6E8302	0	0
	#x6E6A00	8	8	#x6E7107	0	0	#x6E7905	0	0	#x6E8303	0	0
	#x6E6A01	0	0	#x6E7108	0	0	#x6E7906	0	0	#x6E8304	0	0
7												

	A	B	C	D	E	F	G	H	I	J		
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
	Type: Drive Option Card - AX5805 (2 axes, FW 5)											
1	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
2	#x6E8305	0	0	#x6E8A03	1715470337	66400001	#x6E9301	0	0	#x6E9808	1715470337	66400001
	#x6E8306	0	0	#x6E8A04	1715470337	66400001	#x6E9302	0	0	#x6EA000	8	8
	#x6E8307	0	0	#x6E8A05	1715470337	66400001	#x6E9303	0	0	#x6EA001	0	0
	#x6E8308	0	0	#x6E8A06	1715470337	66400001	#x6E9304	0	0	#x6EA002	0	0
	#x6E8500	8	8	#x6E8A07	1715470337	66400001	#x6E9305	0	0	#x6EA003	0	0
3	#x6E8501	0	0	#x6E8A08	1715470337	66400001	#x6E9306	0	0	#x6EA004	0	0
	#x6E8502	0	0	#x6E9000	8	8	#x6E9307	0	0	#x6EA005	0	0
	#x6E8503	0	0	#x6E9001	0	0	#x6E9308	0	0	#x6EA006	0	0
	#x6E8504	0	0	#x6E9002	0	0	#x6E9400	8	8	#x6EA007	0	0
	#x6E8505	0	0	#x6E9003	0	0	#x6E9401	0	0	#x6EA008	0	0
4	#x6E8506	0	0	#x6E9004	0	0	#x6E9402	0	0	#x6EA200	8	8
	#x6E8507	0	0	#x6E9005	0	0	#x6E9403	0	0	#x6EA201	0	0
	#x6E8508	0	0	#x6E9006	0	0	#x6E9404	0	0	#x6EA202	0	0
	#x6E8600	8	8	#x6E9007	0	0	#x6E9405	0	0	#x6EA203	0	0
	#x6E8601	0	0	#x6E9008	0	0	#x6E9406	0	0	#x6EA204	0	0
5	#x6E8602	0	0	#x6E9100	8	8	#x6E9407	0	0	#x6EA205	0	0
	#x6E8603	0	0	#x6E9101	0	0	#x6E9408	0	0	#x6EA206	0	0
	#x6E8604	0	0	#x6E9102	0	0	#x6E9800	8	8	#x6EA207	0	0
	#x6E8605	0	0	#x6E9103	0	0	#x6E9801	1715470337	66400001	#x6EA208	0	0
	#x6E8606	0	0	#x6E9104	0	0	#x6E9802	1715470337	66400001	#x6EA400	8	8
6	#x6E8607	0	0	#x6E9105	0	0	#x6E9803	1715470337	66400001	#x6EA401	0	0
	#x6E8608	0	0	#x6E9106	0	0	#x6E9804	1715470337	66400001	#x6EA402	0	0
	#x6E8A00	8	8	#x6E9107	0	0	#x6E9805	1715470337	66400001	#x6EA403	0	0
	#x6E8A01	1715470337	66400001	#x6E9108	0	0	#x6E9806	1715470337	66400001	#x6EA404	0	0
	#x6E8A02	1715470337	66400001	#x6E9300	8	8	#x6E9807	1715470337	66400001	#x6EA405	0	0
7												

	A	B	C	D	E	F	G	H	I	J		
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
	Type: Drive Option Card - AX5805 (2 axes, FW 5)											
1	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
2	#x6EA406	0	0	#x6EBA00	8	8	#x6EBD07	1715470337	66400001	#x6EC405	0	0
	#x6EA407	0	0	#x6EBA01	0	0	#x6EBD08	1715470337	66400001	#x6EC406	0	0
	#x6EA408	0	0	#x6EBA02	0	0	#x6EC000	8	8	#x6EC407	0	0
	#x6EA500	8	8	#x6EBA03	0	0	#x6EC001	0	0	#x6EC408	0	0
	#x6EA501	1715470337	66400001	#x6EBA04	0	0	#x6EC002	0	0	#x6EC500	8	8
3	#x6EA502	1715470337	66400001	#x6EBA05	0	0	#x6EC003	0	0	#x6EC501	1715470337	66400001
	#x6EA503	1715470337	66400001	#x6EBA06	0	0	#x6EC004	0	0	#x6EC502	1715470337	66400001
	#x6EA504	1715470337	66400001	#x6EBA07	0	0	#x6EC005	0	0	#x6EC503	1715470337	66400001
	#x6EA505	1715470337	66400001	#x6EBA08	0	0	#x6EC006	0	0	#x6EC504	1715470337	66400001
	#x6EA506	1715470337	66400001	#x6EBC00	8	8	#x6EC007	0	0	#x6EC505	1715470337	66400001
4	#x6EA507	1715470337	66400001	#x6EBC01	0	0	#x6EC008	0	0	#x6EC506	1715470337	66400001
	#x6EA508	1715470337	66400001	#x6EBC02	0	0	#x6EC200	8	8	#x6EC507	1715470337	66400001
	#x6EA800	0	0	#x6EBC03	0	0	#x6EC201	0	0	#x6EC508	1715470337	66400001
	#x6EAA00	0	0	#x6EBC04	0	0	#x6EC202	0	0	#x6EC800	0	0
	#x6EAC00	0	0	#x6EBC05	0	0	#x6EC203	0	0	#x6ECA00	0	0
5	#x6EAD00	1715470337	66400001	#x6EBC06	0	0	#x6EC204	0	0	#x6ECC00	0	0
	#x6EB800	8	8	#x6EBC07	0	0	#x6EC205	0	0	#x6ECD00	1715470337	66400001
	#x6EB801	0	0	#x6EBC08	0	0	#x6EC206	0	0	#x6ED000	0	0
	#x6EB802	0	0	#x6EBD00	8	8	#x6EC207	0	0	#x6ED100	0	0
	#x6EB803	0	0	#x6EBD01	1715470337	66400001	#x6EC208	0	0	#x6ED300	0	0
6	#x6EB804	0	0	#x6EBD02	1715470337	66400001	#x6EC400	8	8	#x6EE000	8	8
	#x6EB805	0	0	#x6EBD03	1715470337	66400001	#x6EC401	0	0	#x6EE001	0	0
	#x6EB806	0	0	#x6EBD04	1715470337	66400001	#x6EC402	0	0	#x6EE002	0	0
	#x6EB807	0	0	#x6EBD05	1715470337	66400001	#x6EC403	0	0	#x6EE003	0	0
	#x6EB808	0	0	#x6EBD06	1715470337	66400001	#x6EC404	0	0	#x6EE004	0	0

	A	B	C	D	E	F	G	H	I	J		
0	Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis)											
	Type: Drive Option Card - AX5805 (2 axes, FW 5)											
1	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex	Item	Int	Hex
2	#x6EE005	0	0	#x6EE803	0	0						
	#x6EE006	0	0	#x6EE804	0	0						
	#x6EE007	0	0	#x6EE805	0	0						
	#x6EE008	0	0	#x6EE806	0	0						
	#x6EE200	8	8	#x6EE807	0	0						
3	#x6EE201	0	0	#x6EE808	0	0						
	#x6EE202	0	0	#x6EEA00	8	8						
	#x6EE203	0	0	#x6EEA01	0	0						
	#x6EE204	0	0	#x6EEA02	0	0						
	#x6EE205	0	0	#x6EEA03	0	0						
4	#x6EE206	0	0	#x6EEA04	0	0						
	#x6EE207	0	0	#x6EEA05	0	0						
	#x6EE208	0	0	#x6EEA06	0	0						
	#x6EE400	8	8	#x6EEA07	0	0						
	#x6EE401	0	0	#x6EEA08	0	0						
5	#x6EE402	0	0	#x6EEC00	8	8						
	#x6EE403	0	0	#x6EEC01	0	0						
	#x6EE404	0	0	#x6EEC02	0	0						
	#x6EE405	0	0	#x6EEC03	0	0						
	#x6EE406	0	0	#x6EEC04	0	0						
6	#x6EE407	0	0	#x6EEC05	0	0						
	#x6EE408	0	0	#x6EEC06	0	0						
	#x6EE800	8	8	#x6EEC07	0	0						
	#x6EE801	0	0	#x6EEC08	0	0						
	#x6EE802	0	0									

	A	B	C	D	E	F	G	H	I	J
0	Standard Variables Table									
1										
2										
3										
4										
5										
6										
7										

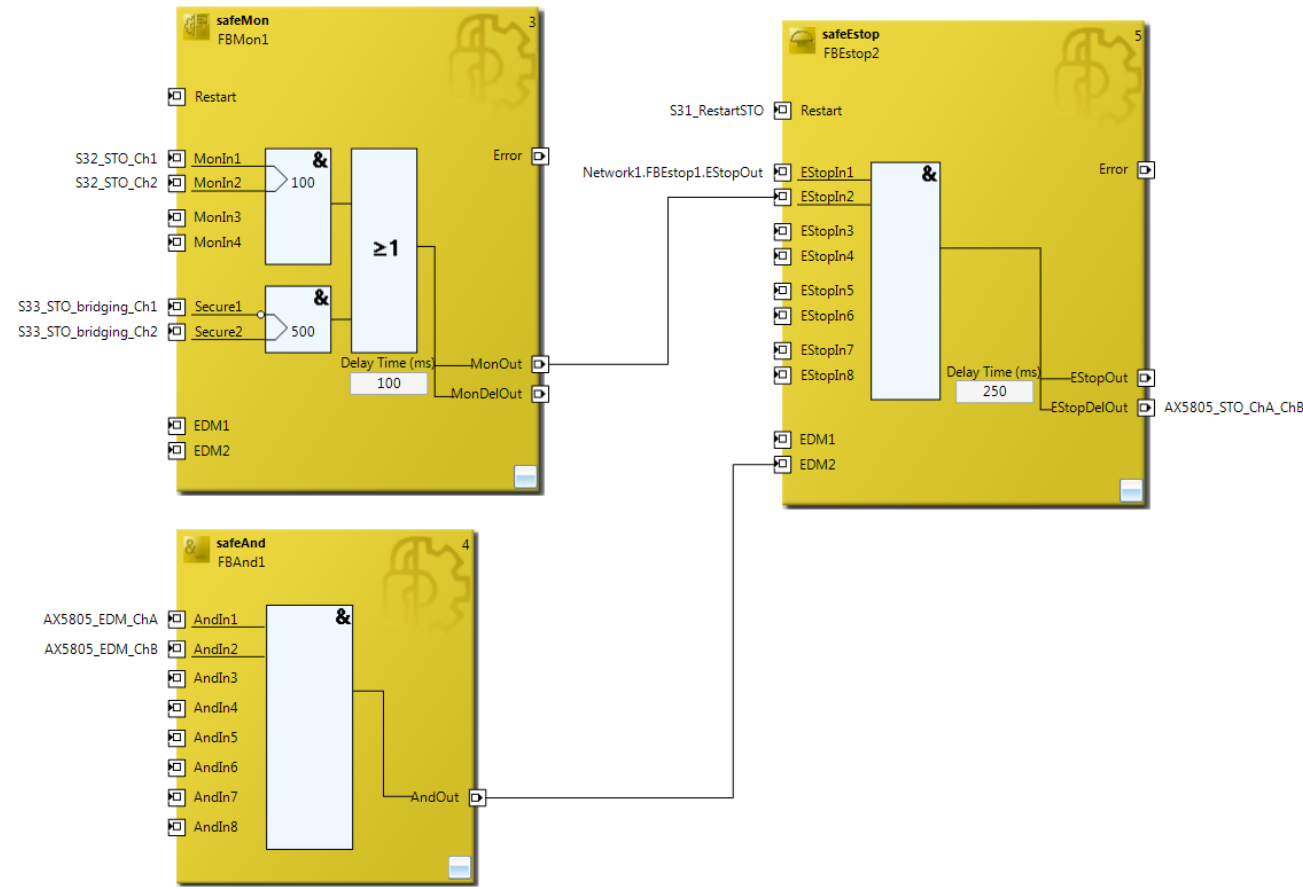
	A	B	C	D	E	F	G	H	I	J
0	TwinSafeGroup1									
1										
2										
3										
4										
5										
6										
7										
	Map State: True Map Diag: True									

Network3

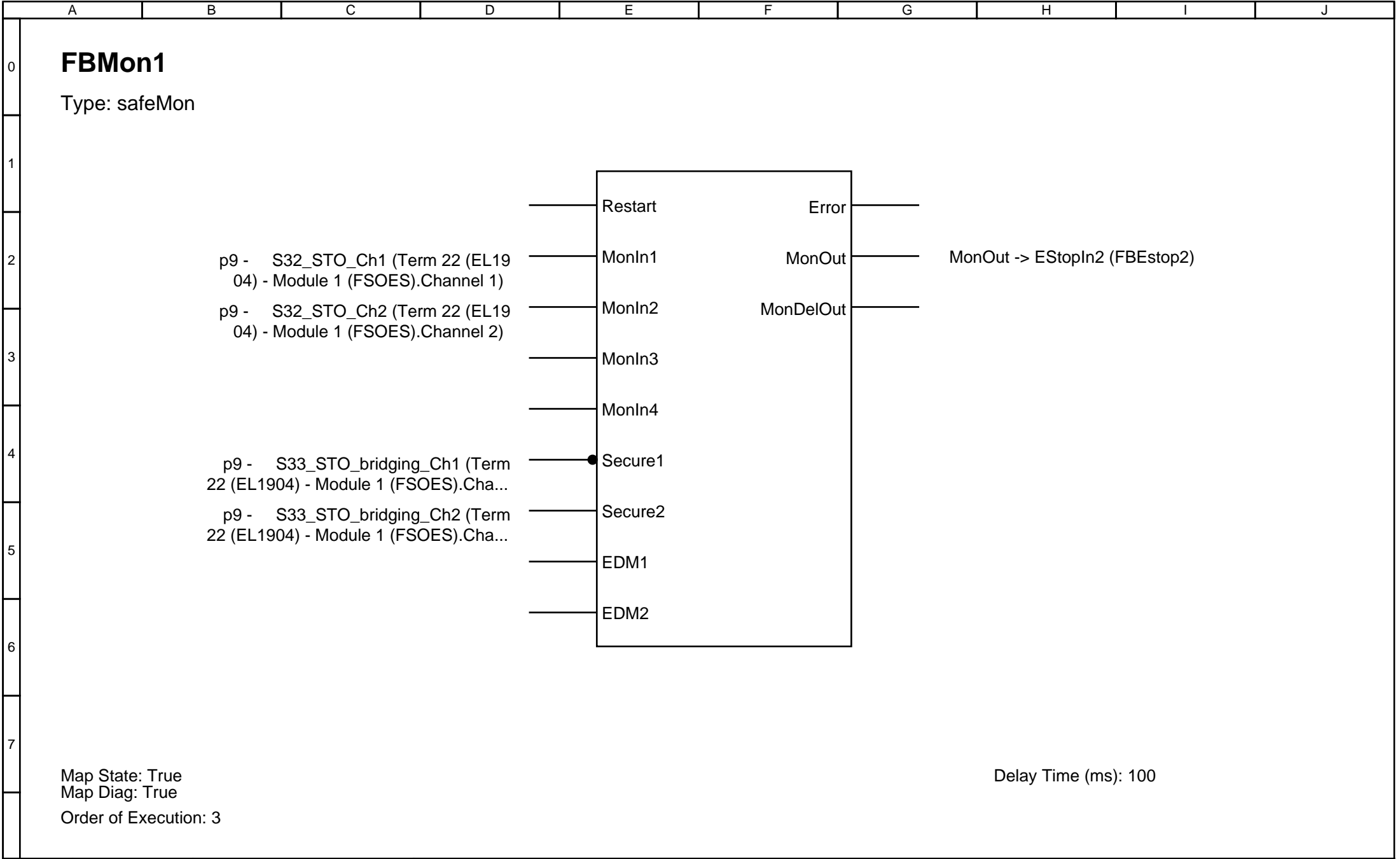


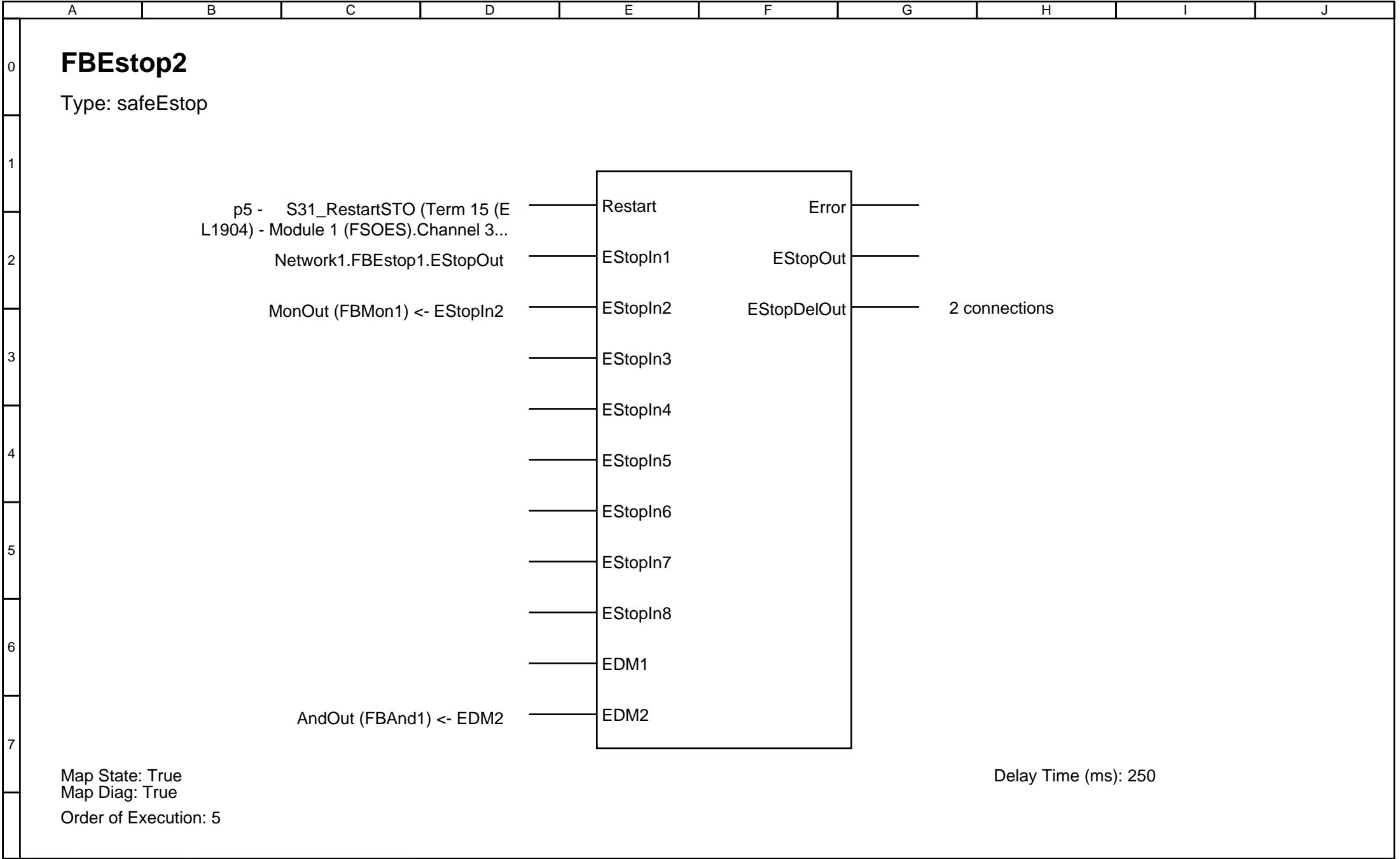
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Map Diag: True

Network3



Map State: True
Map Diag: True

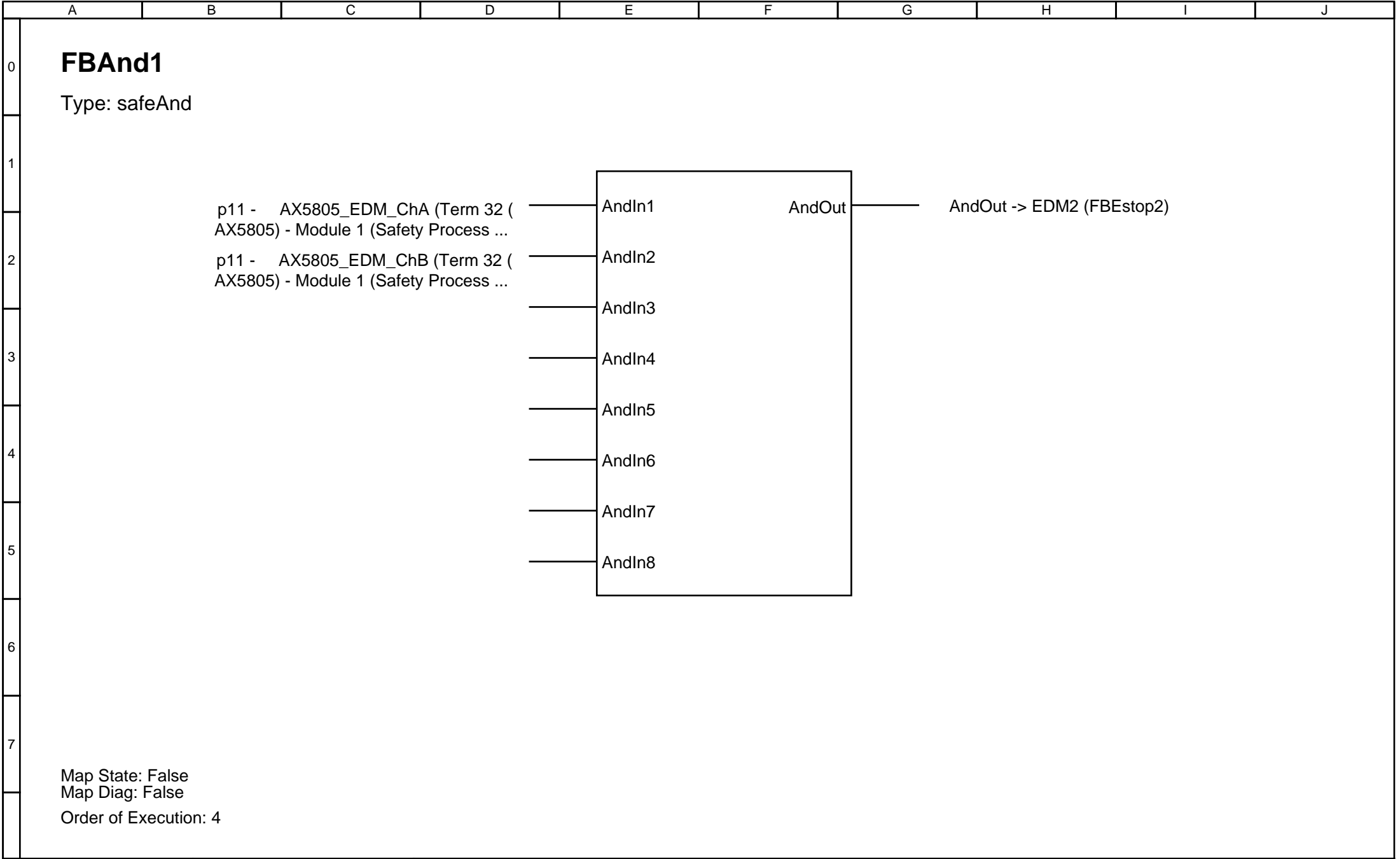


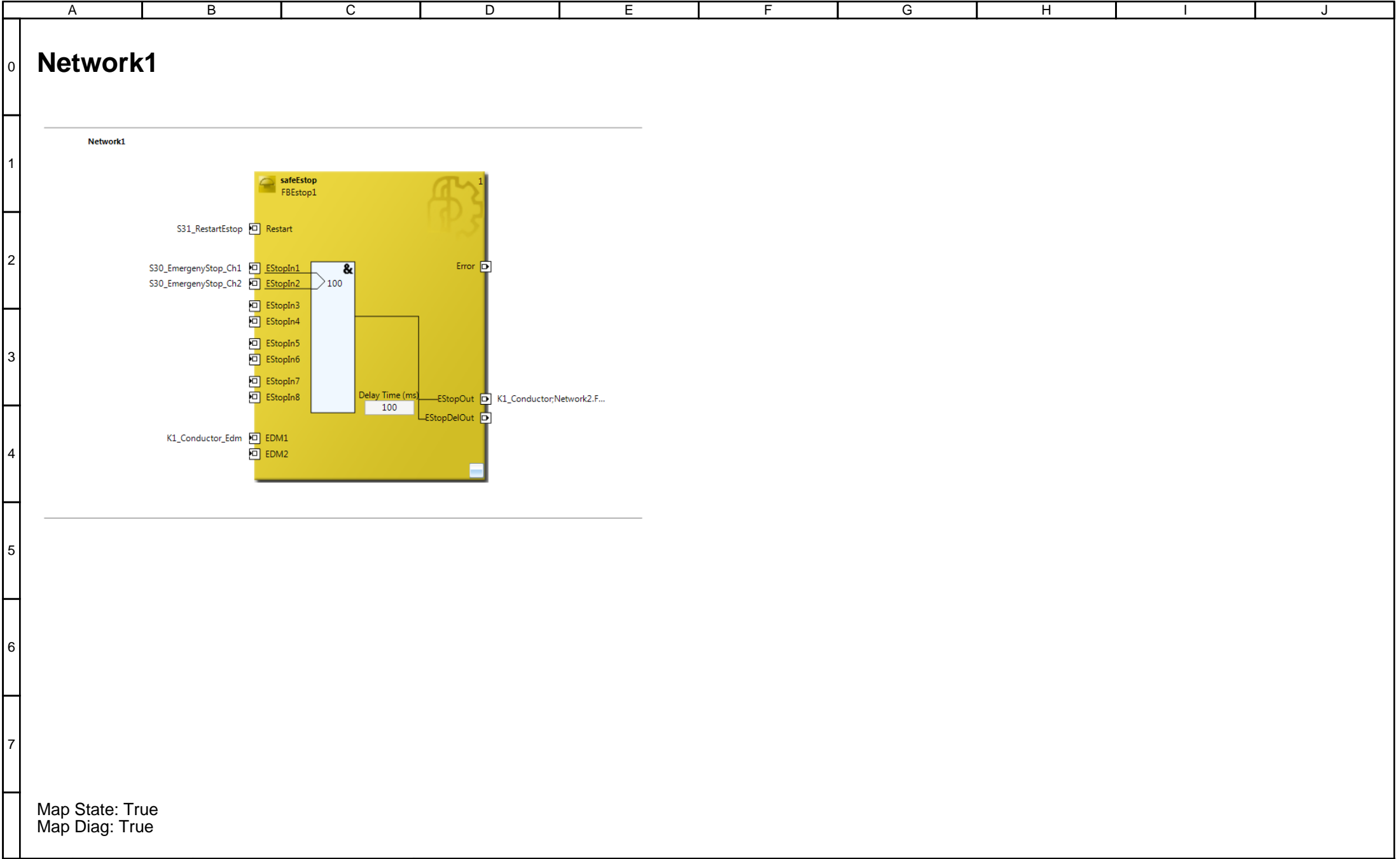


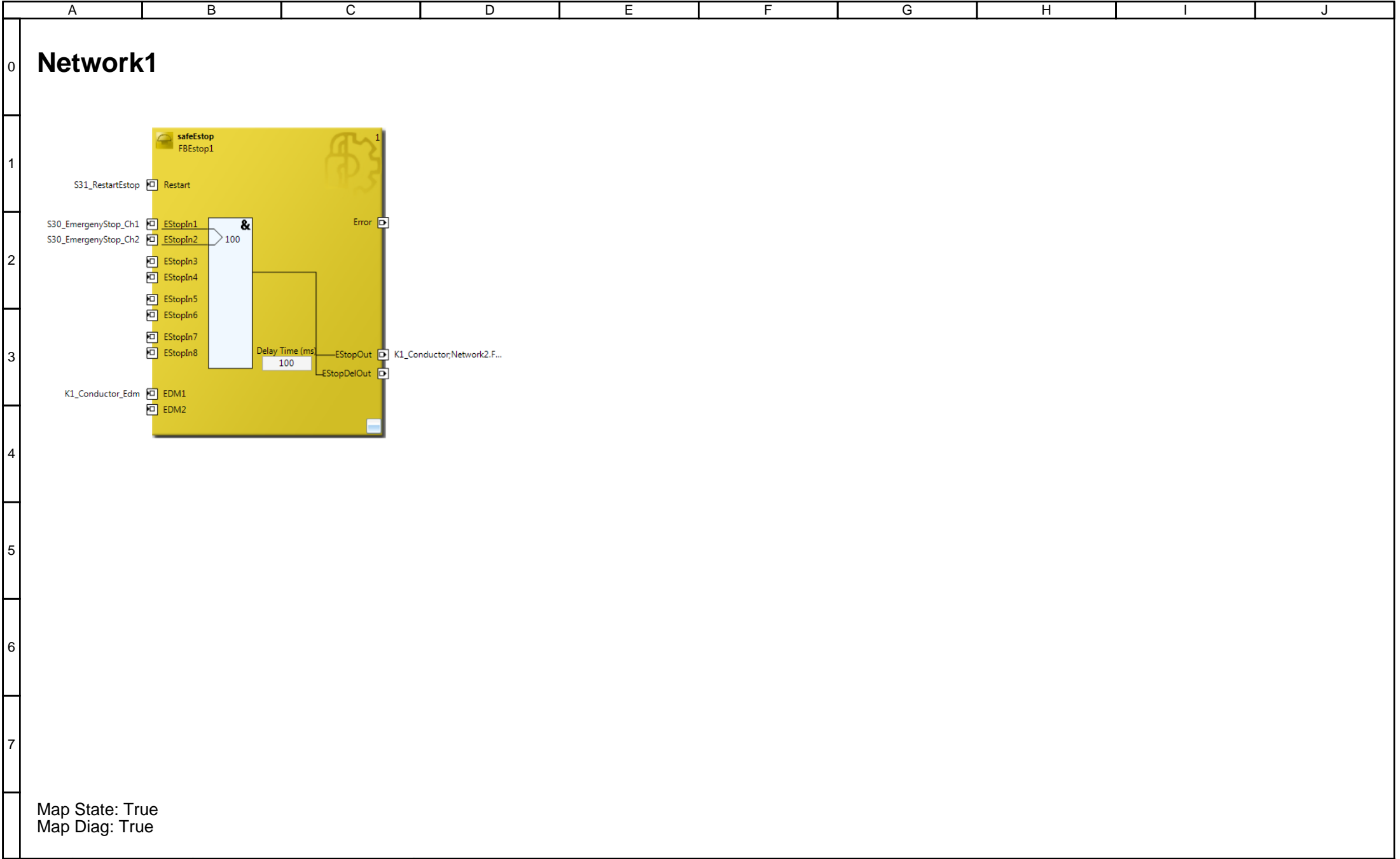
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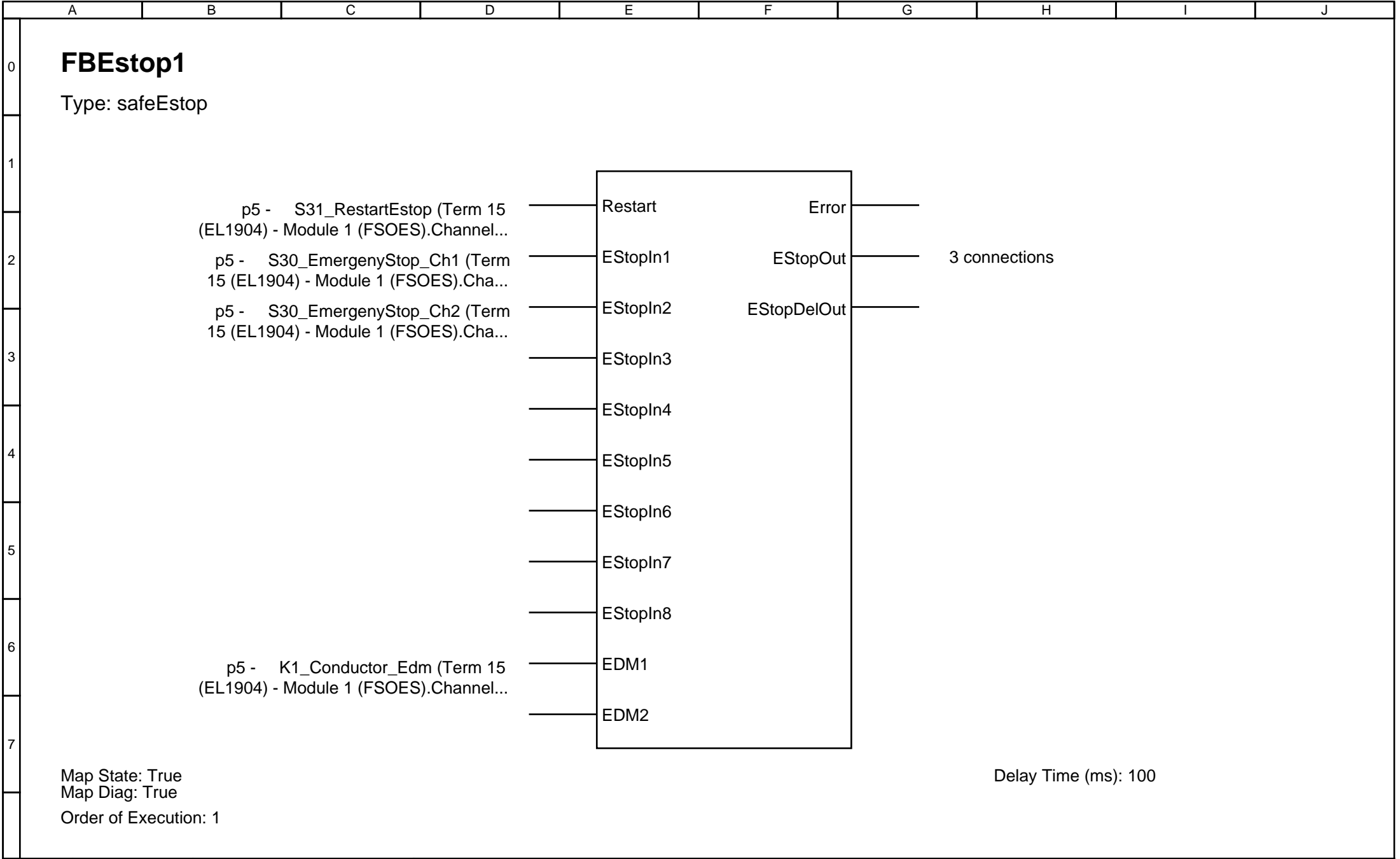
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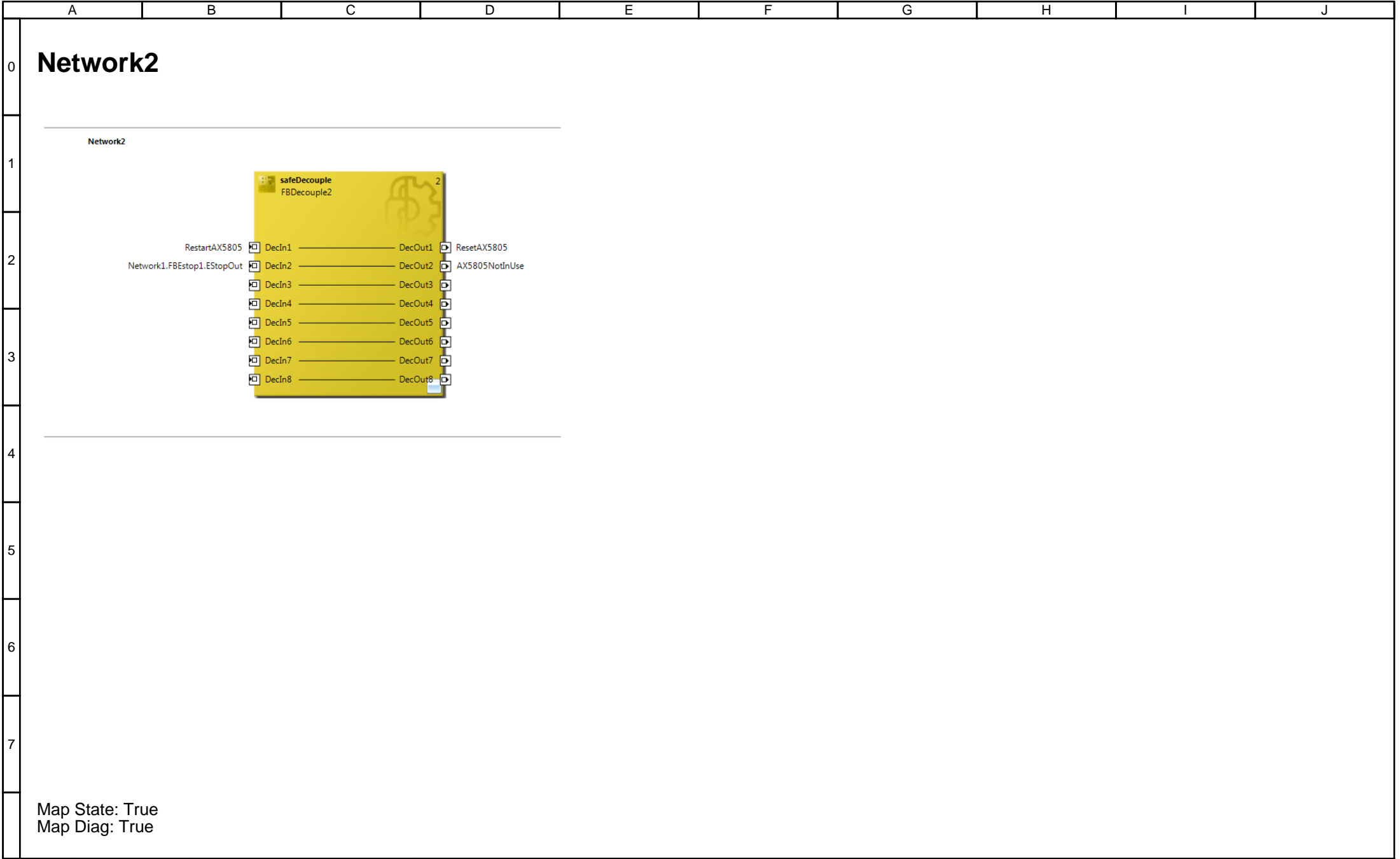
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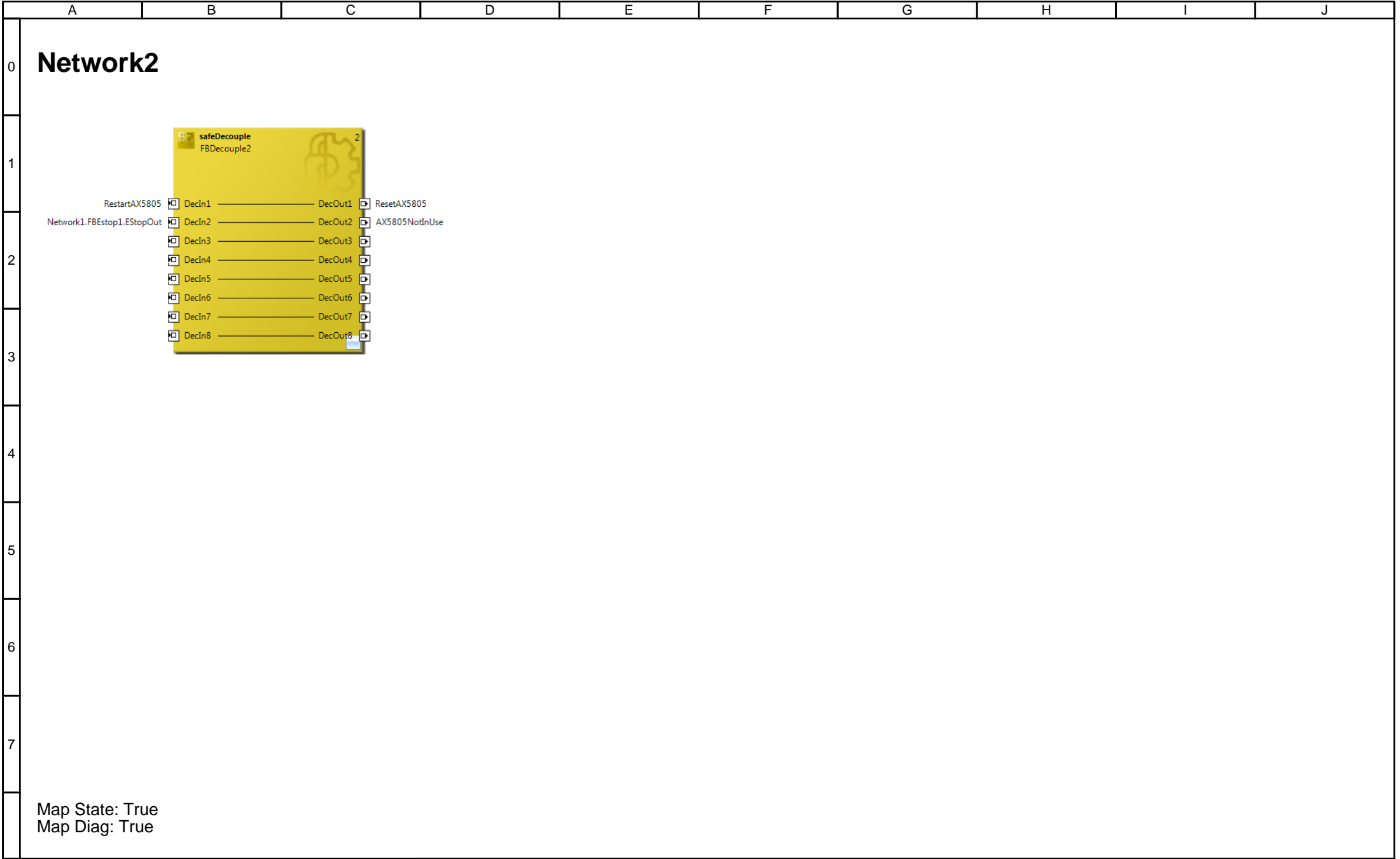
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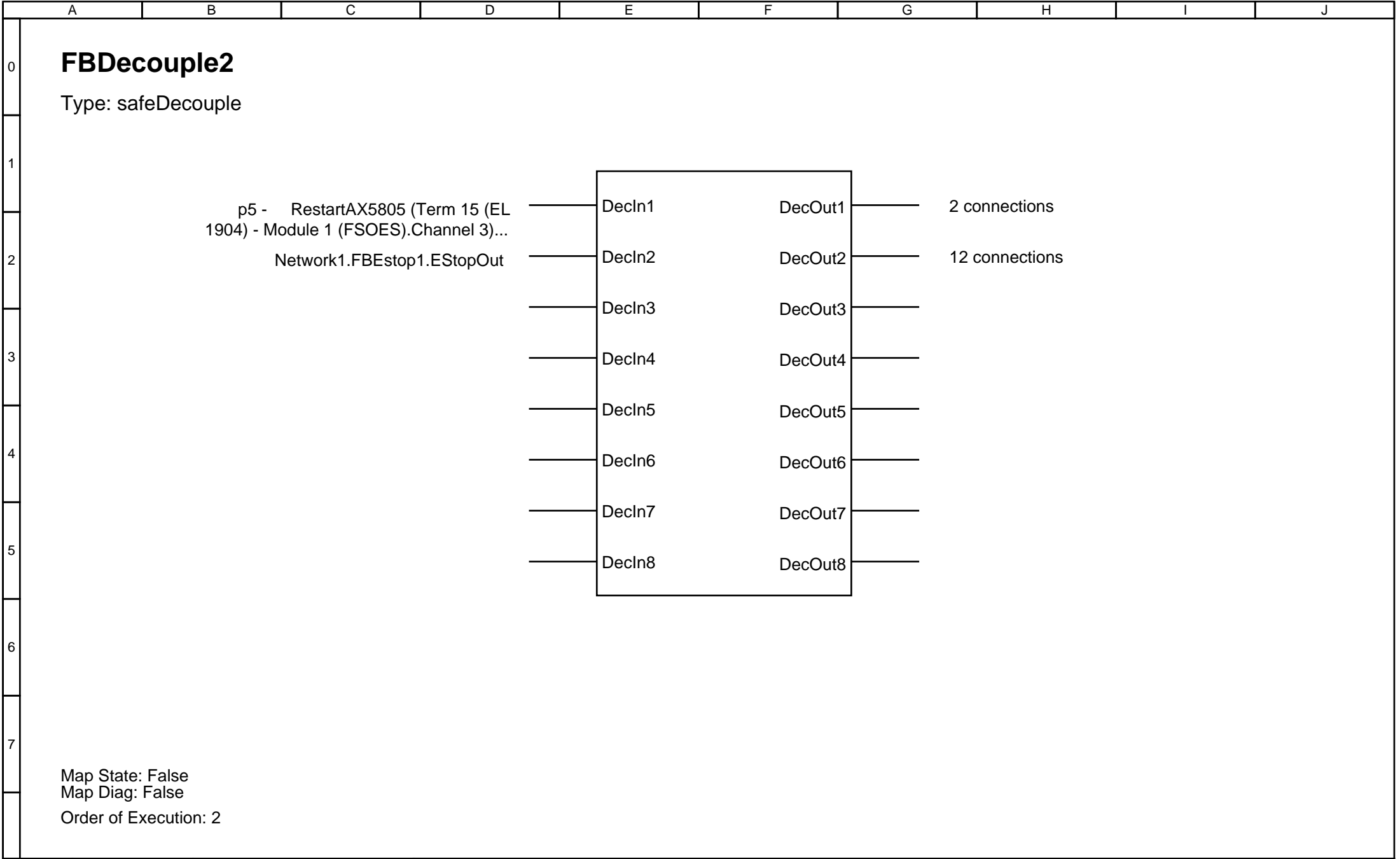
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7







	A	B	C	D	E	F	G	H	I	J																										
0	FBDecouple2 Type: safeDecouple																																			
1	<table><tr><th>Link</th><th>Connection Name</th></tr><tr><td>AssignedVariable (Input)</td><td>Decln1 : RestartAX5805 (Term 15 (EL1904) - Module 1 (FSOES).Channel 3)</td></tr><tr><td>Group (Input)</td><td>Decln2 : Network1.FBEstop1.EStopOut</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut1 : ResetAX5805 (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).ErrAck)</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut1 : ResetAX5805 (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).ErrAck)</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SS1(1))</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SS2(1))</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SOS(1))</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SSR(1))</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SDIp)</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SDIn)</td></tr><tr><td>AssignedVariable (Output)</td><td>DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SS1(1))</td></tr><tr><td></td><td></td></tr></table>										Link	Connection Name	AssignedVariable (Input)	Decln1 : RestartAX5805 (Term 15 (EL1904) - Module 1 (FSOES).Channel 3)	Group (Input)	Decln2 : Network1.FBEstop1.EStopOut	AssignedVariable (Output)	DecOut1 : ResetAX5805 (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).ErrAck)	AssignedVariable (Output)	DecOut1 : ResetAX5805 (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).ErrAck)	AssignedVariable (Output)	DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SS1(1))	AssignedVariable (Output)	DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SS2(1))	AssignedVariable (Output)	DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SOS(1))	AssignedVariable (Output)	DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SSR(1))	AssignedVariable (Output)	DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SDIp)	AssignedVariable (Output)	DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SDIn)	AssignedVariable (Output)	DecOut2 : AX5805NotInUse (Term 32 (AX5805) - Module 1 (Safety Process Data, 2 axis).SS1(1))		
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