

SIEMENS

**AlgoRex
CS1140 mit OSID**

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CS1140 with OSID**

Liefermöglichkeiten und technische Änderungen vorbehalten.

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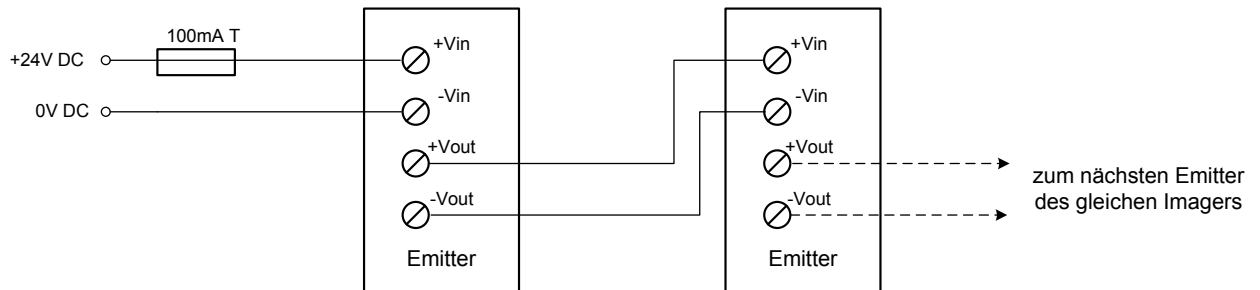
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Inhaltsverzeichnis

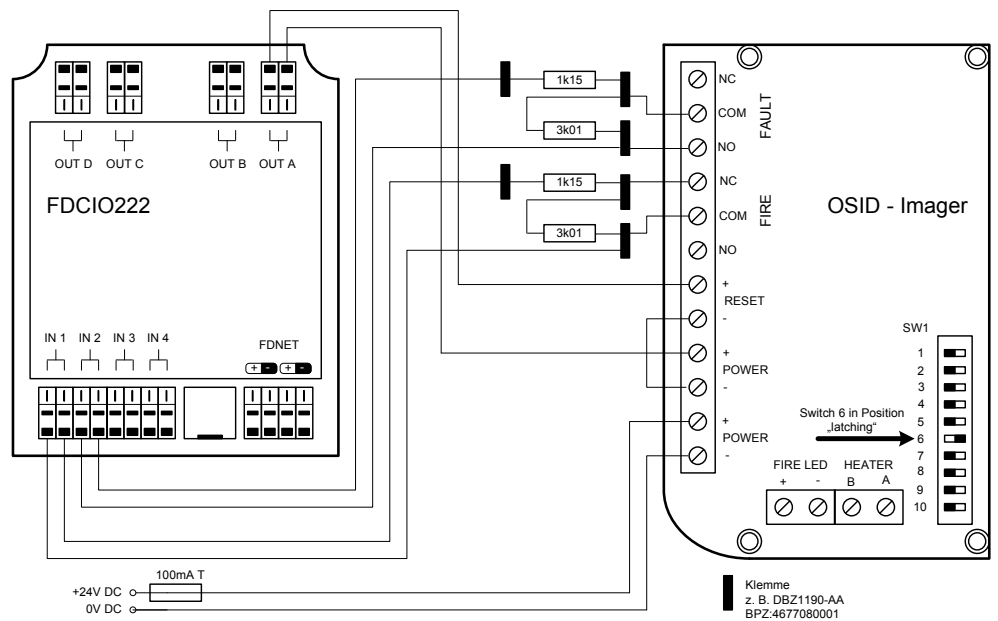
1	Elektrische Anschaltung	4
1.1	Externe Versorgung des Emitters	4
1.2	Anschalten OSID - Imager an ein FDCIO222	5
1.3	Anschalten OSID - Imager an ein FDCIO224	5
2	Konfiguration der CS1140	6
2.1	Alarmeingang	7
2.2	Störungseingang	8
2.3	Reset OSID	10
3	Electrical connecting plan.....	13
3.1	External supply of Emitter	13
3.2	Connecting OSID - Imager to FDCIO222.....	14
3.3	Connecting OSID - Imager to FDCIO224.....	14
4	CS1140 Configuration.....	15
4.1	Alarm Input.....	16
4.2	Fault input.....	17
4.3	Reset OSID	19

1 Elektrische Anschaltung

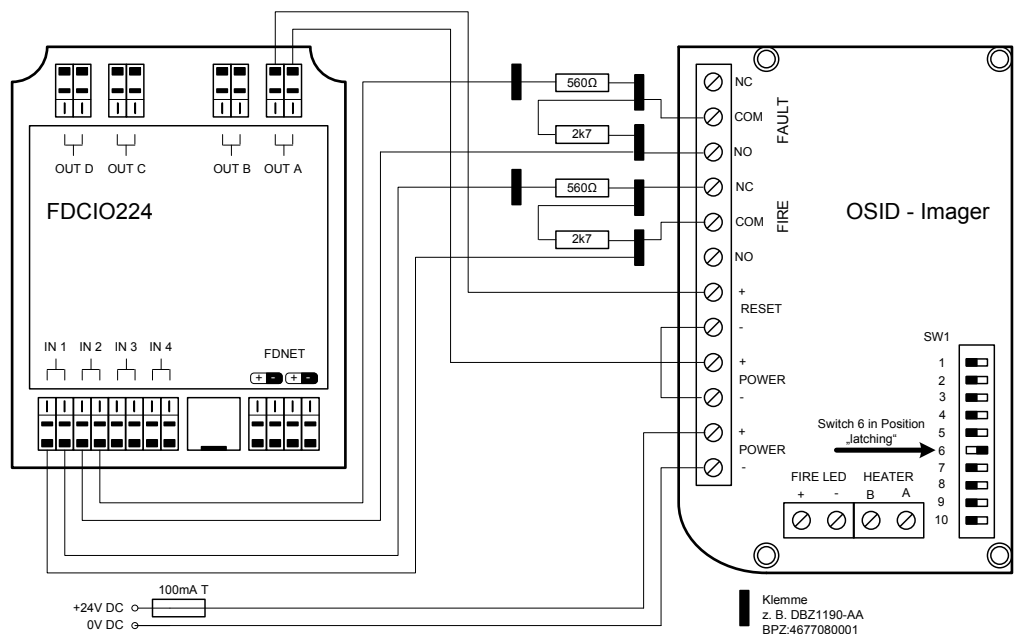
1.1 Externe Versorgung des Emitters



1.2 Anschalten OSID - Imager an ein FDCIO222



1.3 Anschalten OSID - Imager an ein FDCIO224



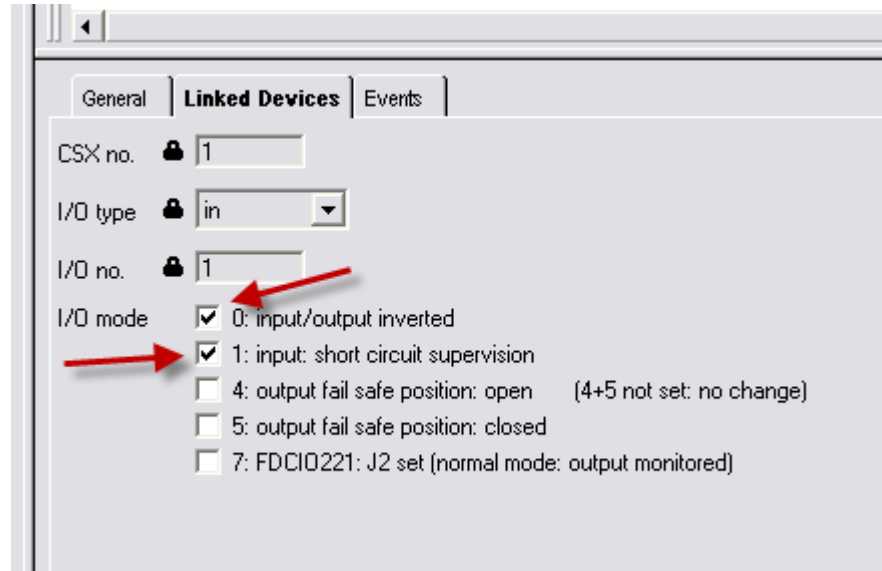
2 Konfiguration der CS1140

Man benötigt für die Konfiguration eines OSID 1 SE fire für die Darstellung des Brandalarms. Weiterhin benötigt am 2 SE control, 1 SE control für die Darstellung der Störung und 1 SE control für die Steuerung des Resets.

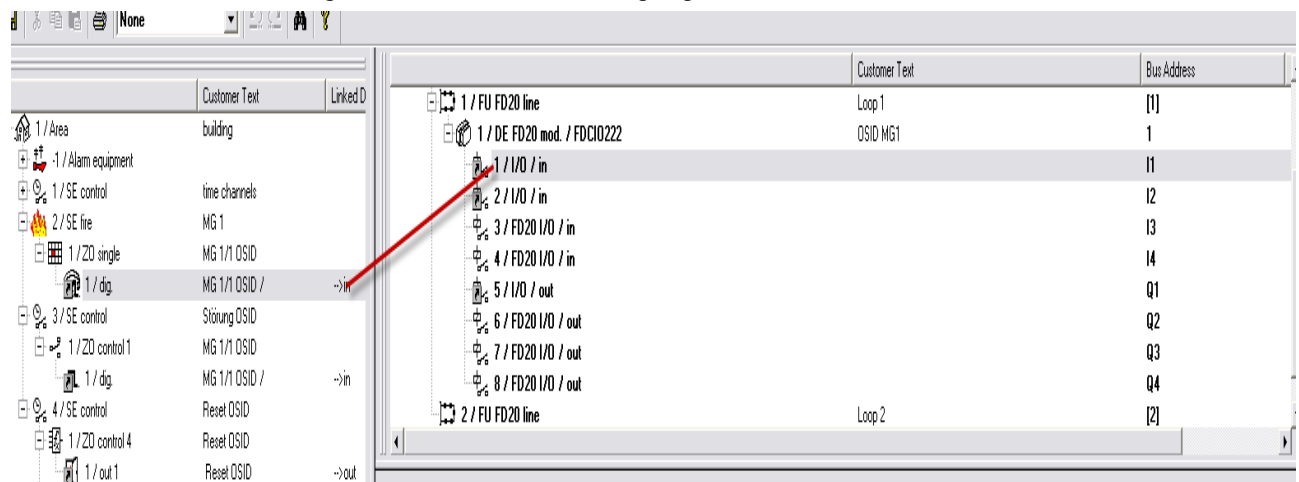
	Customer Text	Linke
1 / Area	building	
-1 / Alarm equipment		
1 / SE control	time channels	
2 / SE fire	MG 1	
1 / ZO single	MG 1/1 OSID	
1 / dig.	MG 1/1 OSID /	-->in
3 / SE control	Störung OSID	
1 / ZO control 1	MG 1/1 OSID	
1 / dig.	MG 1/1 OSID /	-->in
4 / SE control	Reset OSID	
1 / ZO control 4	Reset OSID	
1 / out 1	Reset OSID	-->out
2 / ZO control 4	Reset MG	
1 / EL command	Reset Area 1	

2.1 Alarmeingang

Dazu benötigt man eine SE fire, ZO single und ein ZO digital. Das ZO digital ist lt. der Darstellung zu parametrieren.



Das ZO digital ist mit dem ersten Eingang des FDCIO222 verlinkt



2.2 Störungseingang

Zur Darstellung der Störmeldung benötigt man ein SE control, ein ZO control sowie ein Element digital.

Das Element digital ist folgendermaßen zu parametrieren:

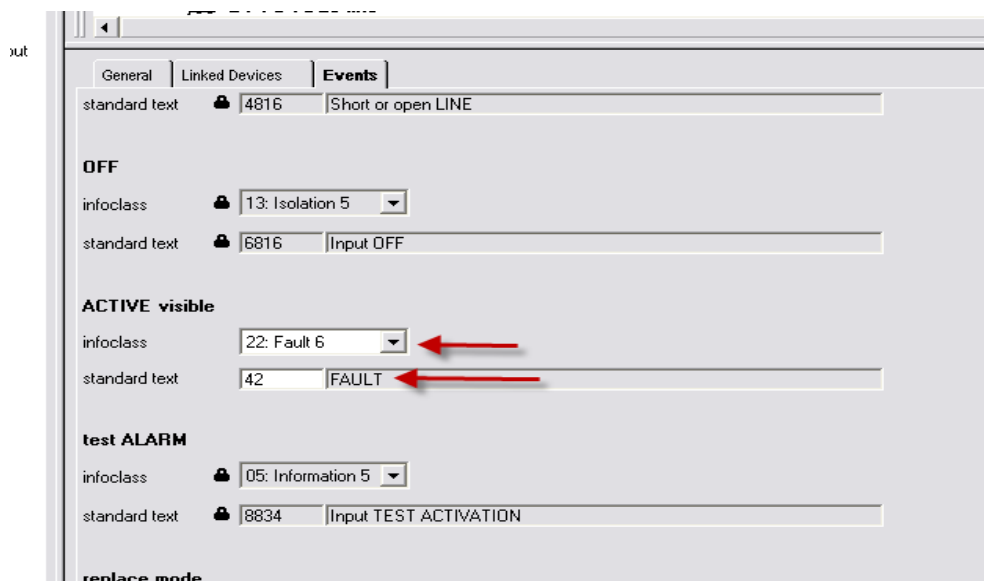
The screenshot shows the 'General' tab of a configuration window for '2 / FU FD20 line'. The parameters are as follows:

CSX no.	1
element type	0
cust. text line 1	Störung OSID
cust. text line 2	MG 1/1 OSID
supervision time [s]	3
digital element type	0: static
loc. index	0

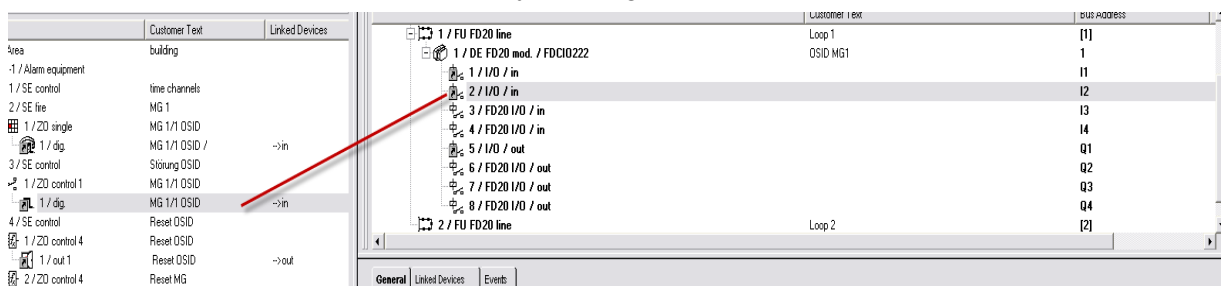
The screenshot shows the 'Linked Devices' tab of a configuration window for '2 / FU FD20 line'. The parameters are as follows:

CSX no.	2
I/O type	in
I/O no.	2
I/O mode	<input checked="" type="checkbox"/> 0: input/output inverted <input checked="" type="checkbox"/> 1: input: short circuit supervision <input type="checkbox"/> 4: output fail safe position: open (4+5 not set: no change) <input type="checkbox"/> 5: output fail safe position: closed <input type="checkbox"/> 7: FDCIO221: J2 set (normal mode: output monitored)

Die Infoclass des EL digital ist dabei 22 und die Nummer des Standardtextes 42. Damit ist die Störmeldung quittierpflichtig



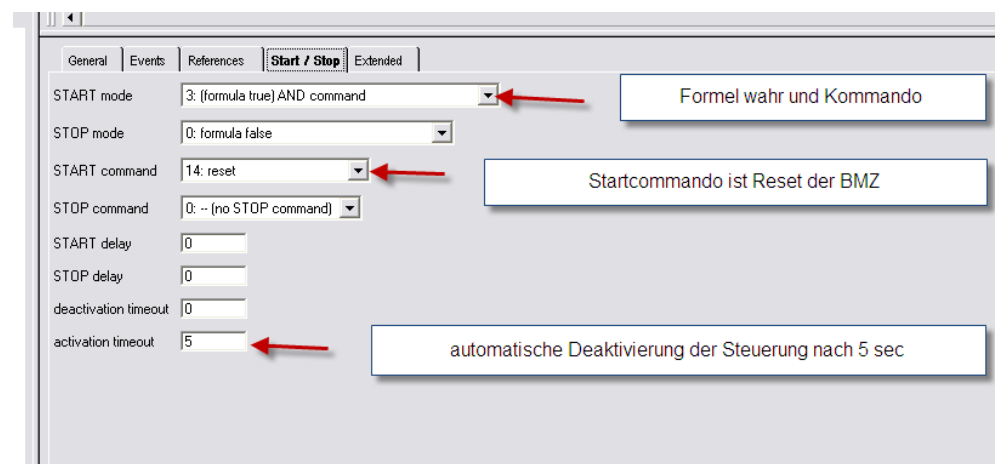
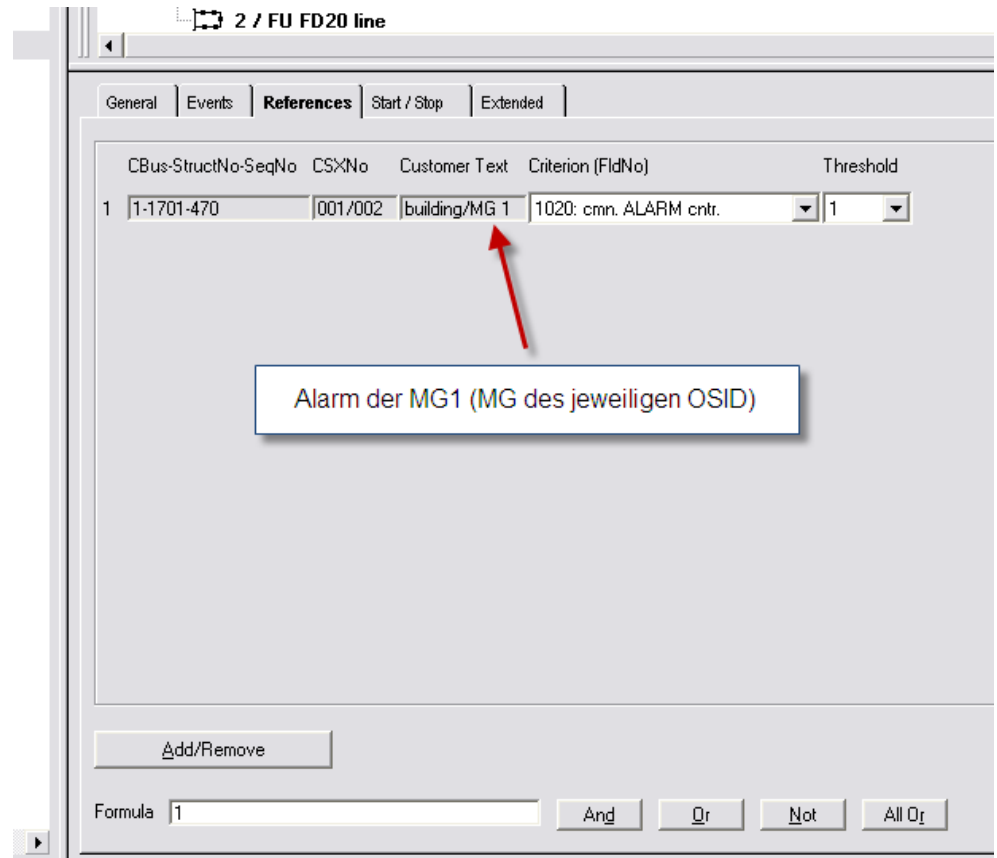
Das EL digital ist mit dem zweiten Eingang des FDCIO222 zu verlinken
Anmerkung: Es kann auch nur ein SE control für die Störungsdarstellung von mehreren OSID-Systemen genutzt werden.



2.3 Reset OSID

Man benötigt ein SE control und zwei ZO control4 für den Reset eines OSID. Das erste ZO control dient dem Rückstellen des OSID und das zweite ZO control4 dient dem Rückstellen der Meldergruppe. Damit entfällt das zweimalige Zurückstellen.

Das ZOcontrol4 für den Reset des OSID ist wie folgt zu parametrieren:



Das EL out 1 ist verlinkt mit dem ersten Ausgang des FDCIO222.

The screenshot shows a software interface with a table of I/O devices. The table has three columns: 'Customer Text', 'Customer Text', and 'Bus Address'. A red arrow points from the '1 / out 1' entry in the 'Linked Devices' column to the '5 / I/O / out' entry in the main table.

Area	Customer Text	Linked Devices	Customer Text	Customer Text	Bus Address
	building		1 / FU FD20 line	Loop 1	[1]
			1 / DE FD20 mod. / FDCIO222	OSID MG1	1
-1 / Alarm equipment	time channels		1 / I/O / in		I1
1 / SE control	MG 1		2 / I/O / in		I2
2 / SE fire	MG 1		3 / FD20 I/O / in		I3
1 / ZD single	MG 1/1 OSID		4 / FD20 I/O / in		I4
1 / dig.	MG 1/1 OSID /	->in	5 / I/O / out		Q1
3 / SE control	Störung OSID		6 / FD20 I/O / out		Q2
1 / ZD control 1	MG 1/1 OSID		7 / FD20 I/O / out		Q3
1 / dig.	MG 1/1 OSID	->in	8 / FD20 I/O / out		Q4
4 / SE control	Reset OSID		2 / FU FD20 line	Loop 2	[2]
1 / ZD control 4	Reset OSID				
1 / out 1	Reset OSID	->out			
2 / ZD control 4	Reset MG				
1 / EL command	Reset Area 1				
Area	building				
Area	building				
Area	building				

General

CSX no. 5

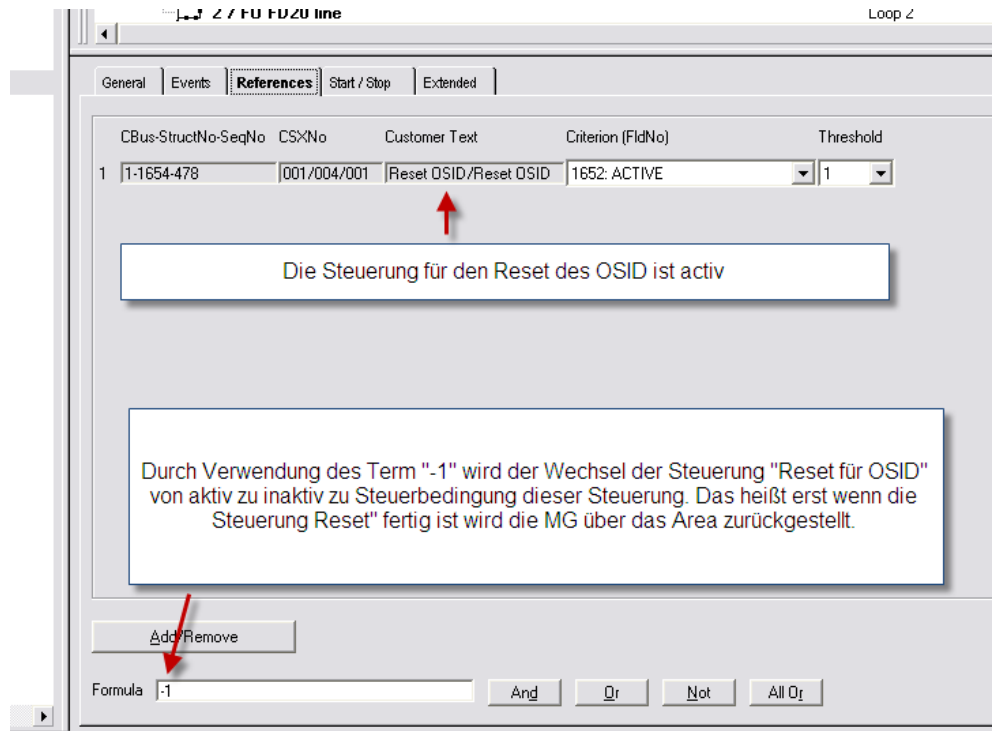
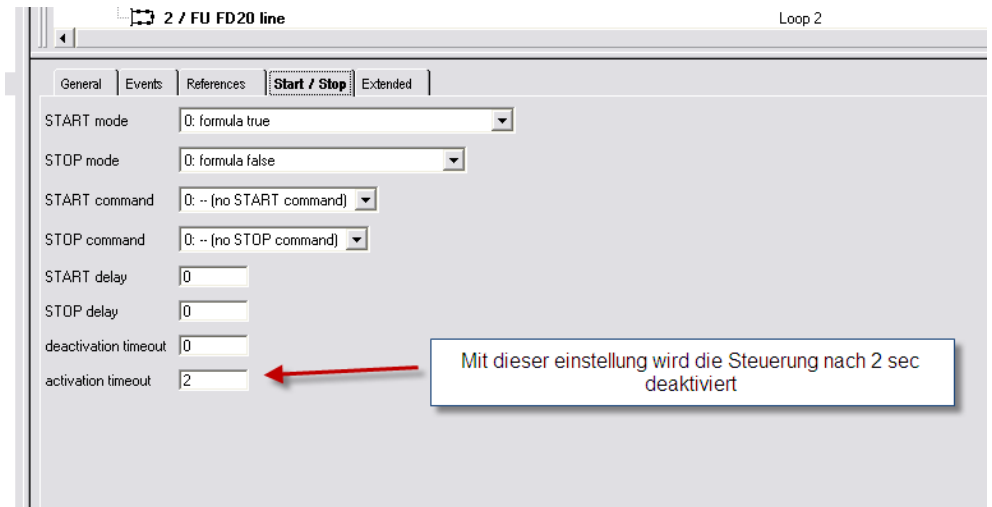
I/O type out

I/O no. 5

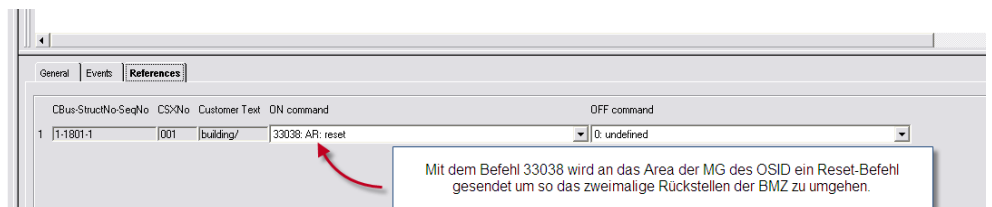
I/O mode

- 0: input/output inverted
- 1: input: short circuit supervision
- 4: output fail safe position: open (4+5 not set: no change)
- 5: output fail safe position: closed
- 7: FDCIO221: v2 set (normal mode: output monitored)

Das ZO control4 für den Reset der Meldergruppe besitzt ein EL command und ist wie folgt zu parametrieren.

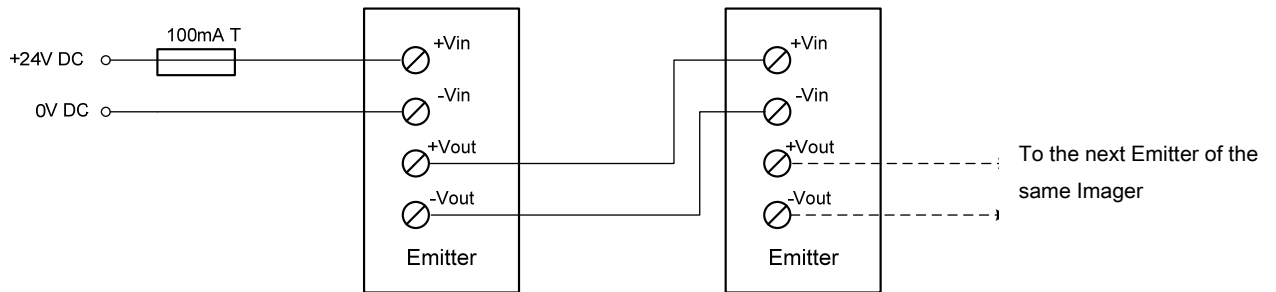


Das EL command ist wie folgt zu parametrieren:

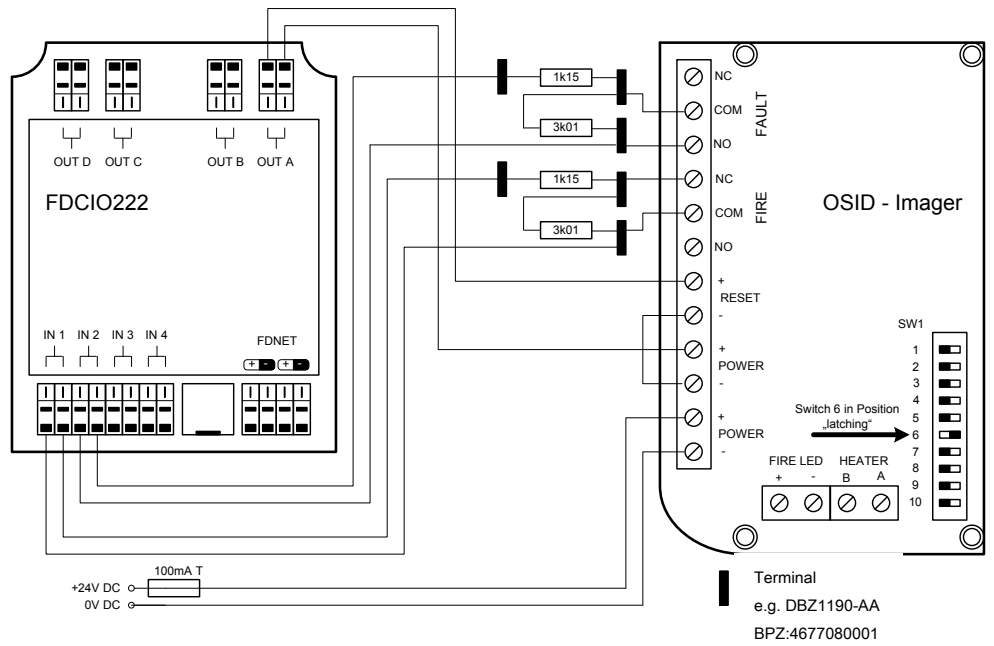


3 Electrical connecting plan

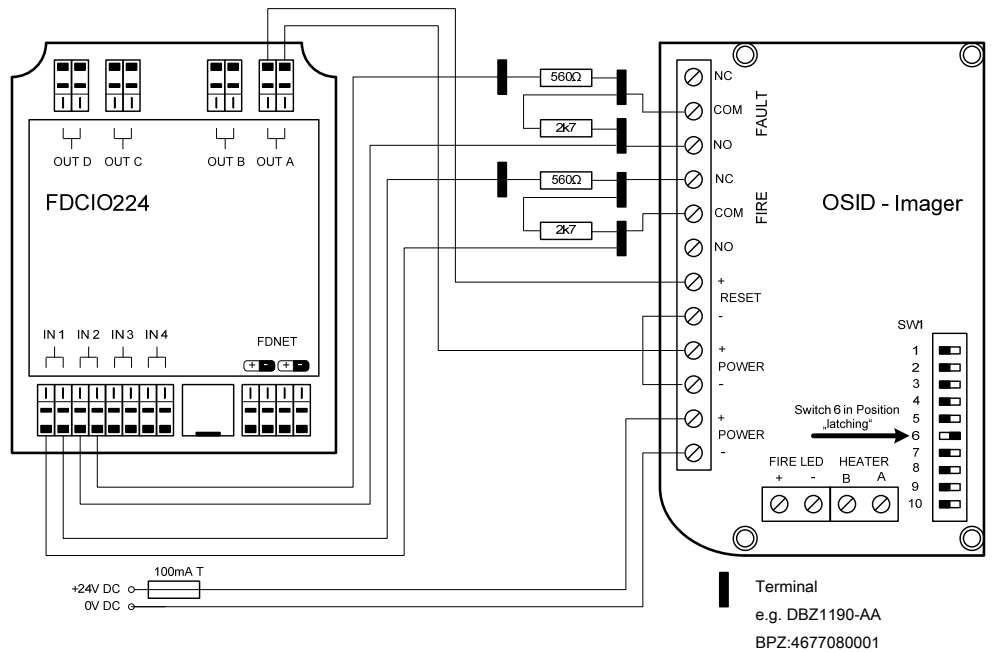
3.1 External supply of Emitter



3.2 Connecting OSID - Imager to FDCIO222

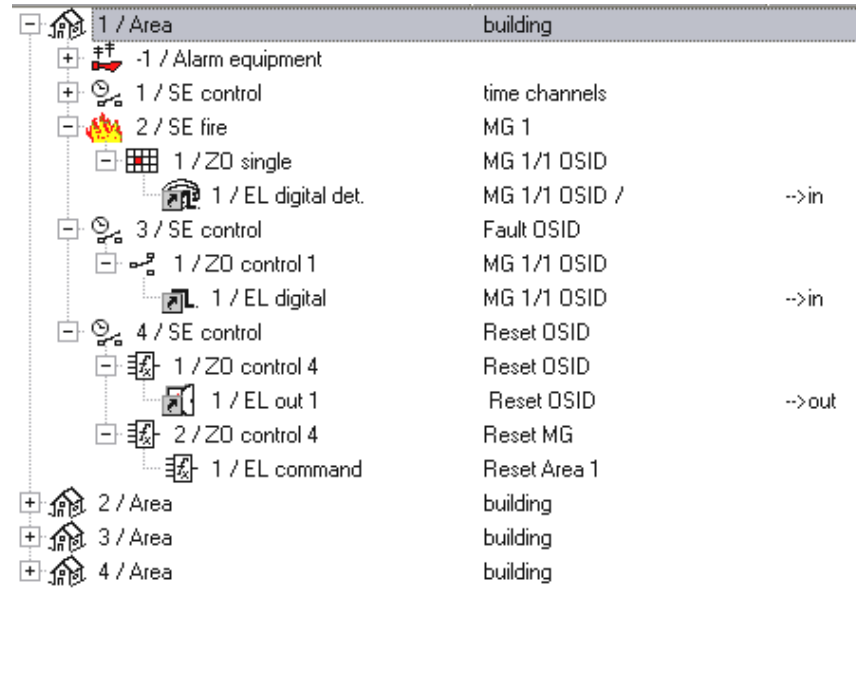


3.3 Connecting OSID - Imager to FDCIO224



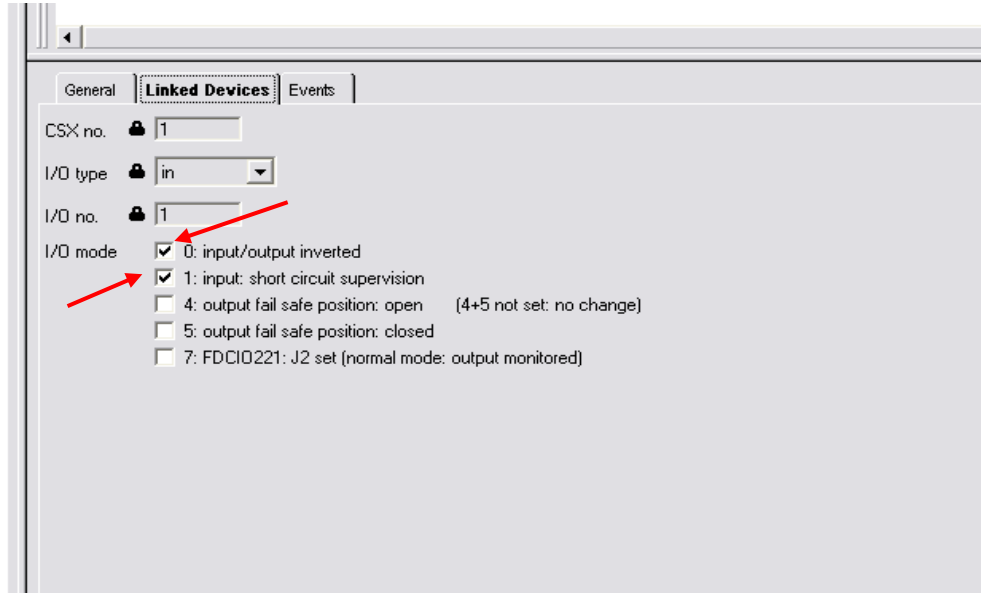
4 CS1140 Configuration

We need a SE fire to display the fire alarm. Also we need a SE control for the fault message from the OSID System and a SE control to reset the OSID System

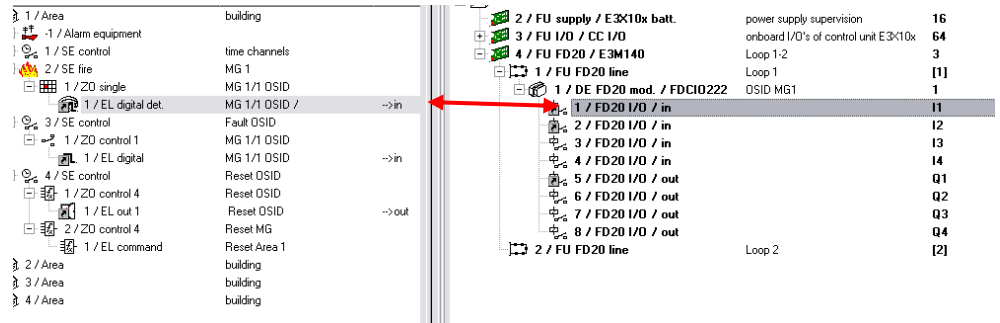


4.1 Alarm Input

We use a SE fire with ZO single and with an EL digital You can see in this picture how to configure the EL digital.



The ZO digital for the fire alarm is linked with the first input on the DCIO222.



4.2 Fault input

For displaying the fault message from the OSID we use a SE control with ZO control 1 and an EL digital. You can see in the next three picture how to configure the EL digital.

General | Events | Extended

CSX no.

zone type

cust. text line 1

cust. text line 2

plan reference no.

control zone type

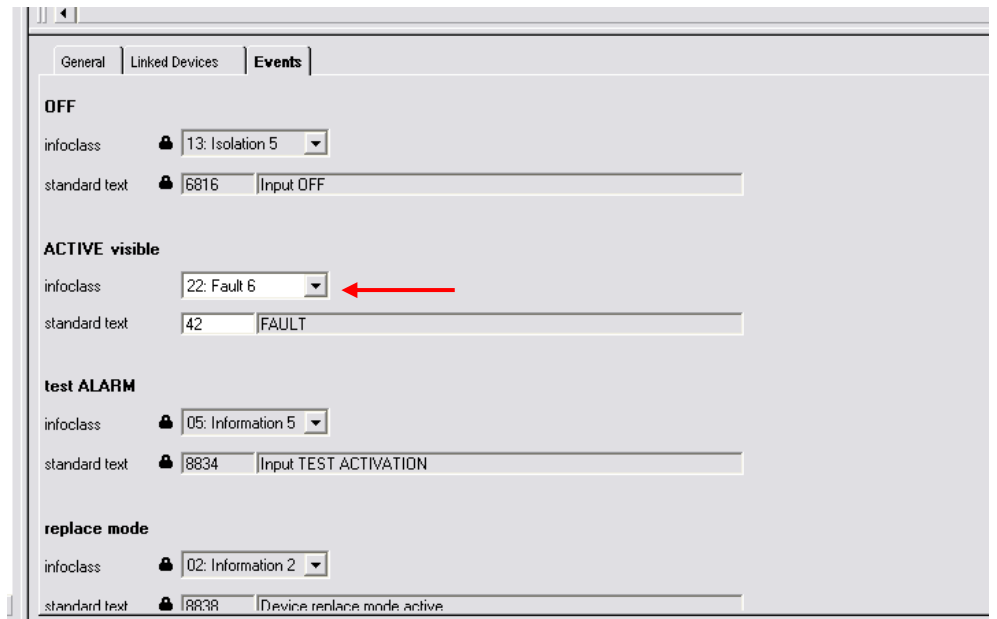
General | **Linked Devices** | Events

CSX no.

I/O type

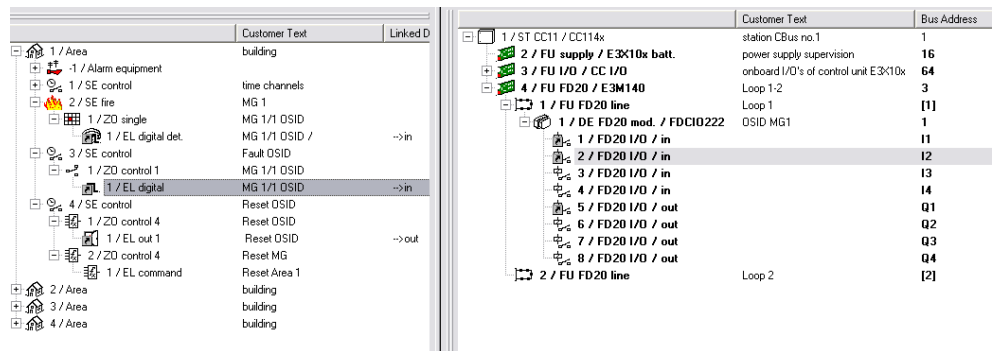
I/O no.

I/O mode 0: input/output inverted
 1: input: short circuit supervision
 4: output fail safe position: open (4+5 not set: no change)
 5: output fail safe position: closed
 7: FDCIO221: J2 set (normal mode: output monitored)



The EL digital is linked with the input number two on the FDCIO222.

Note: You can add more than one ZO control 1 for the fault messages in the same SE control.



4.3 Reset OSID

This is the Detection Group number from the OSID.

	CBus-StructNo-SeqNo	CSXNo	Customer Text	Criterion (FldNo)	Threshold
1	1-1701-470	001/002	building/MG 1	1020: cmn. ALARM cntr.	1

Formula: 1

Buttons: And, Or, Not, All Or

For the automatically reset, we use a SE control with two ZO Control 4. The first ZO control 4 is for resetting the OSID. The second ZO control 4 is for reset the Detector.

In this picture you can see the start/stop configuration for the first ZO control 4 (reset OSID)

START mode: 3: (formula true)AND command

STOP mode: 0: formula false

START command: 14: reset

STOP command: 0: -- (no STOP command)

START delay: 0

STOP delay: 0

deactivation timeout: 0

activation timeout: 5

The EL out 1 from the first ZO control 4 (reset OSID) is linked with the first output from the FDCIO222.

Customer Text	Linked D	Customer Text	Bus Address
1 / Area	building	1 / ST CC11 / CC114x	station CBus no.1 1
-1 / Alarm equipment		2 / FU supply / E3K10x batt.	power supply supervision 16
1 / SE control	time channels	3 / FU I/O / CC I/O	onboard I/O's of control unit E3K10x 64
2 / SE fire	MG 1	4 / FU FD20 / E3M140	Loop 1-2 3
1 / ZO single	MG 1/1 OSID /	1 / FU FD20 line	Loop 1 [1]
1 / EL digital det.	MG 1/1 OSID /	1 / DE FD20 mod. / FDCIO222	OSID MG1 1
3 / SE control	Fault OSID	1 / FD20 I/O / in	11
1 / ZO control 1	MG 1/1 OSID	2 / FD20 I/O / in	12
1 / EL digital	MG 1/1 OSID	3 / FD20 I/O / in	13
4 / SE control	Reset OSID	4 / FD20 I/O / in	14
1 / ZO control 4	Reset OSID	5 / FD20 I/O / out	Q1
1 / EL out 1	Reset OSID -->out	6 / FD20 I/O / out	Q2
2 / ZO control 4	Reset MG	7 / FD20 I/O / out	Q3
1 / EL command	Reset Area 1	8 / FD20 I/O / out	Q4
2 / Area	building	2 / FU FD20 line	Loop 2 [2]
3 / Area	building		
4 / Area	building		

In this picture you can see the start/stop configuration from the second ZO control 4 (reset Detector Group)

General Events References **Start / Stop** Extended

START mode: 0: formula true

STOP mode: 0: formula false

START command: 0: -- (no START command)

STOP command: 0: -- (no STOP command)

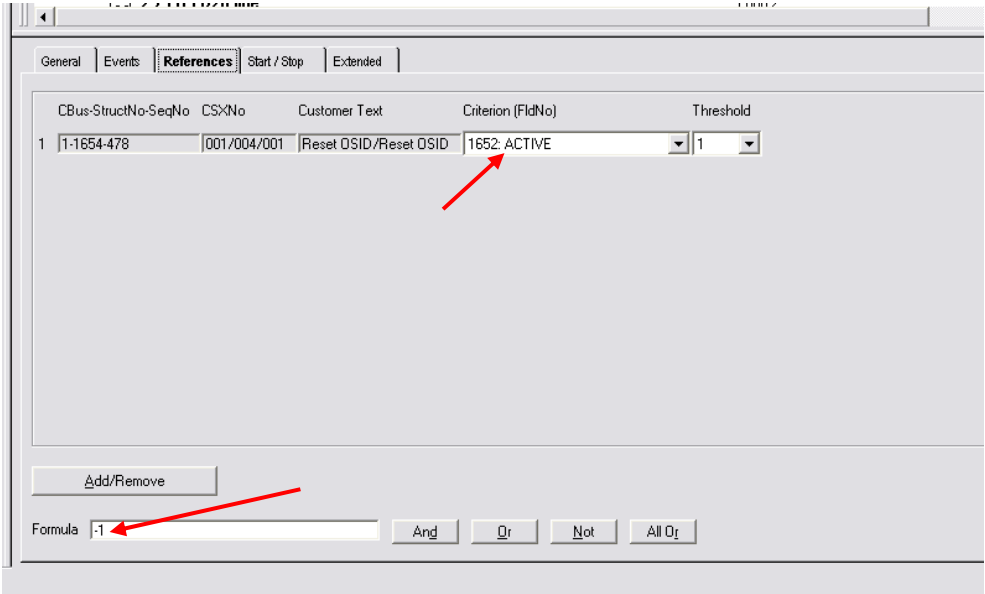
START delay: 0

STOP delay: 0

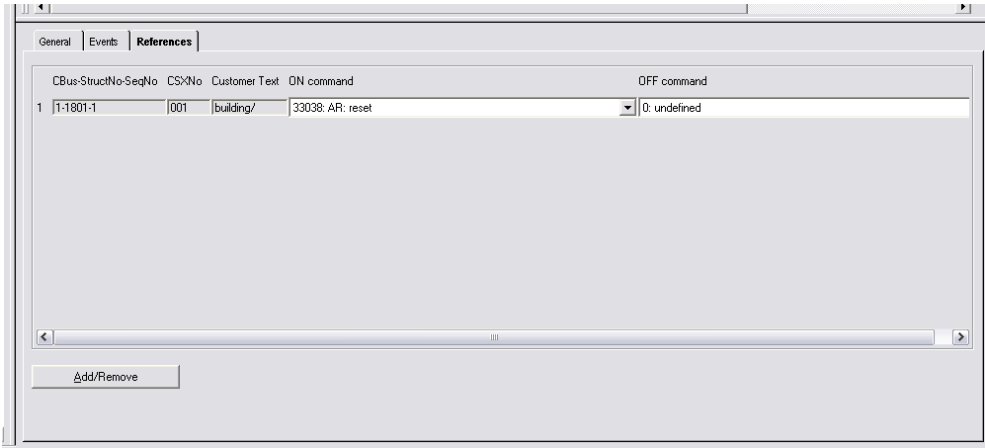
deactivation timeout: 0

activation timeout: 2

This is the reference and the formula for the second ZO control 4. The reference is the first ZO control 4 (reset OSID)



This is the configuration of the EL command. We send a reset-command to the area where the Detector Zone for the OSID is configured



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Dokument-ID A6V10373318_a_de_--
Ausgabe 07.2012