Milleteknik CEO3 V2.1 Output Control Module Motherboard User Guide

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ABOUT 5 OUTPUT MODULE

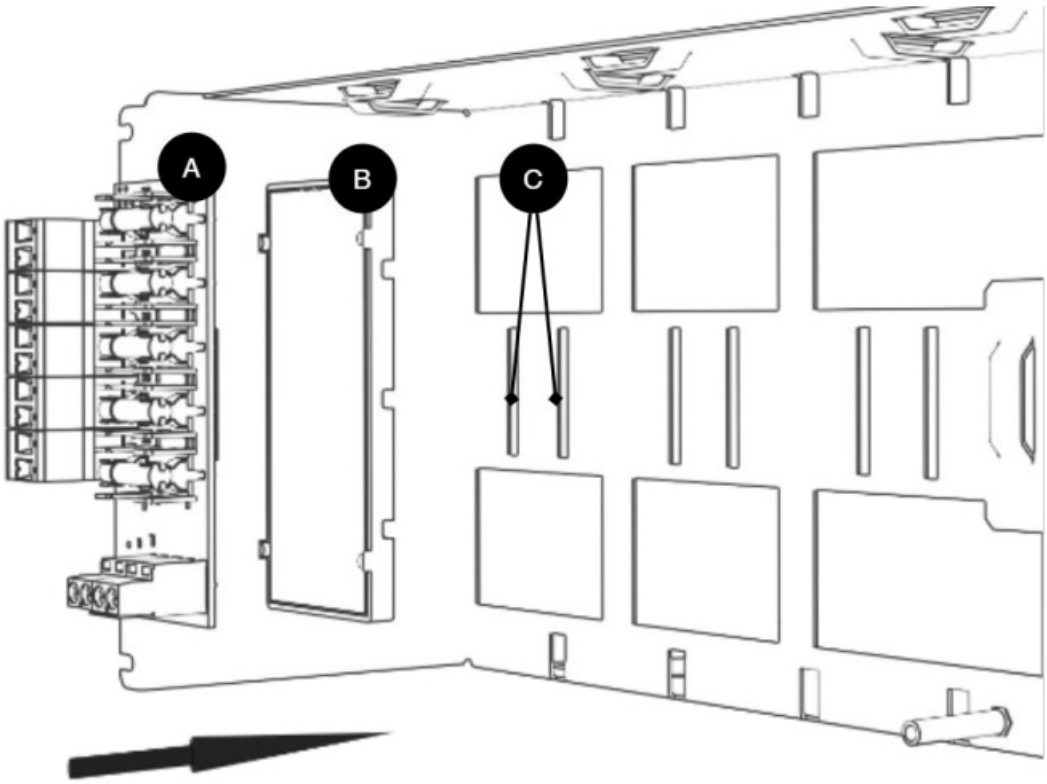
5 Output module is a fuse module with five fully fused outputs. When ordering, check that the card fits the battery backup the card is to be installed in.

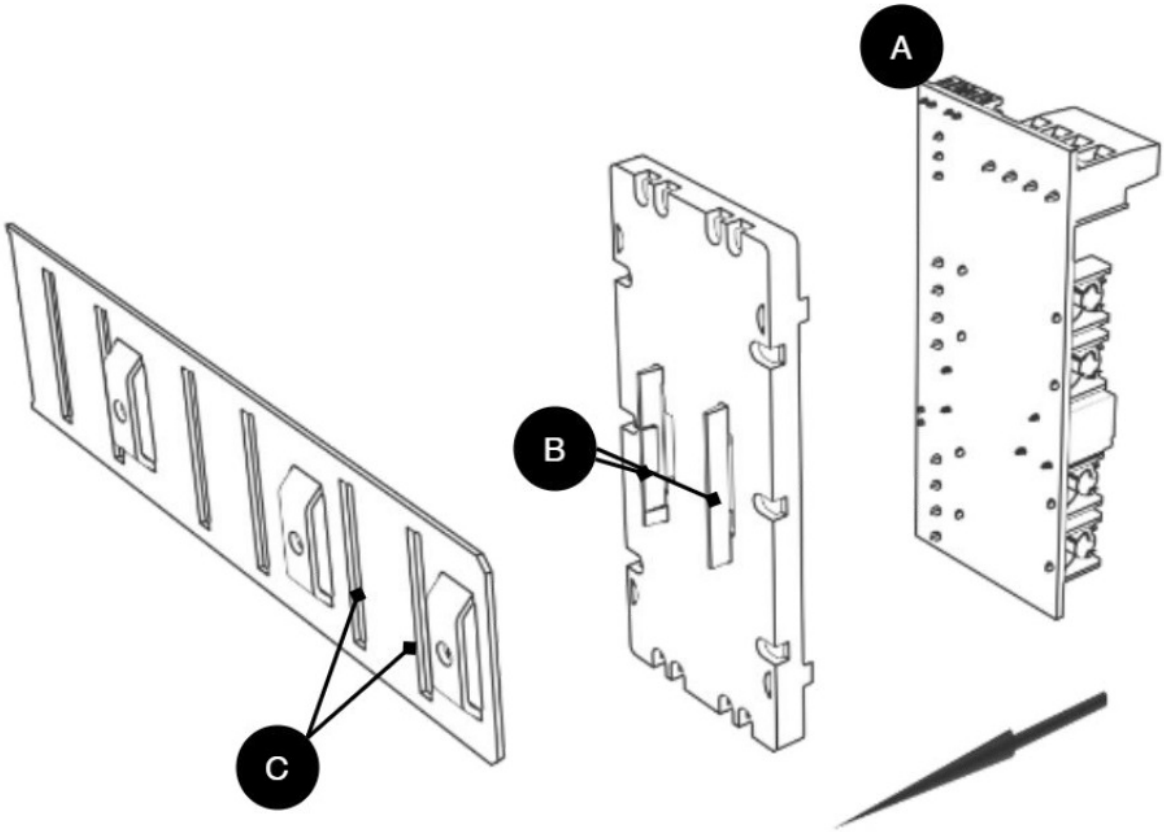
MOUNTING IN BATTERY BACKUP

The card is delivered mounted in it’s plastic casing, for easy installation.
If the card has come loose, snap it back into the plastic casing.
Mount the card on any card slot in the enclosure, leave space for cables.

Important

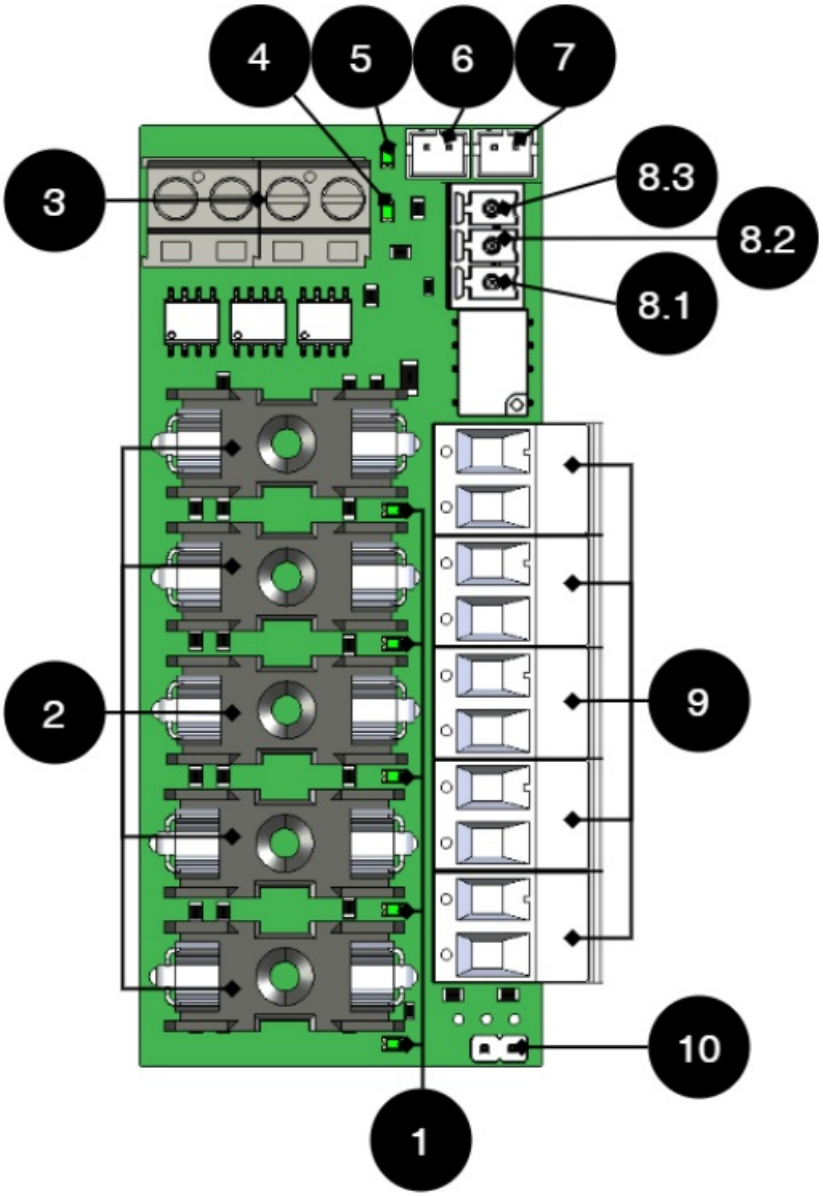
Install the board before screwing on wiring or commissioning





Letter	Explanation	Comment
A	Optional card	Optional card comes mounted on plastic housing from fac- tory. Has it come loose? Snap it back on before mounting the card.
B	Plastic casing	The plastic casing has hooks for attaching slots in the plate.
C	Place for plastic cas- ing	Slits in sheet metal to snap the plastic bracket.

CARD DESCRIPTION 5 OUTPUT MODULE

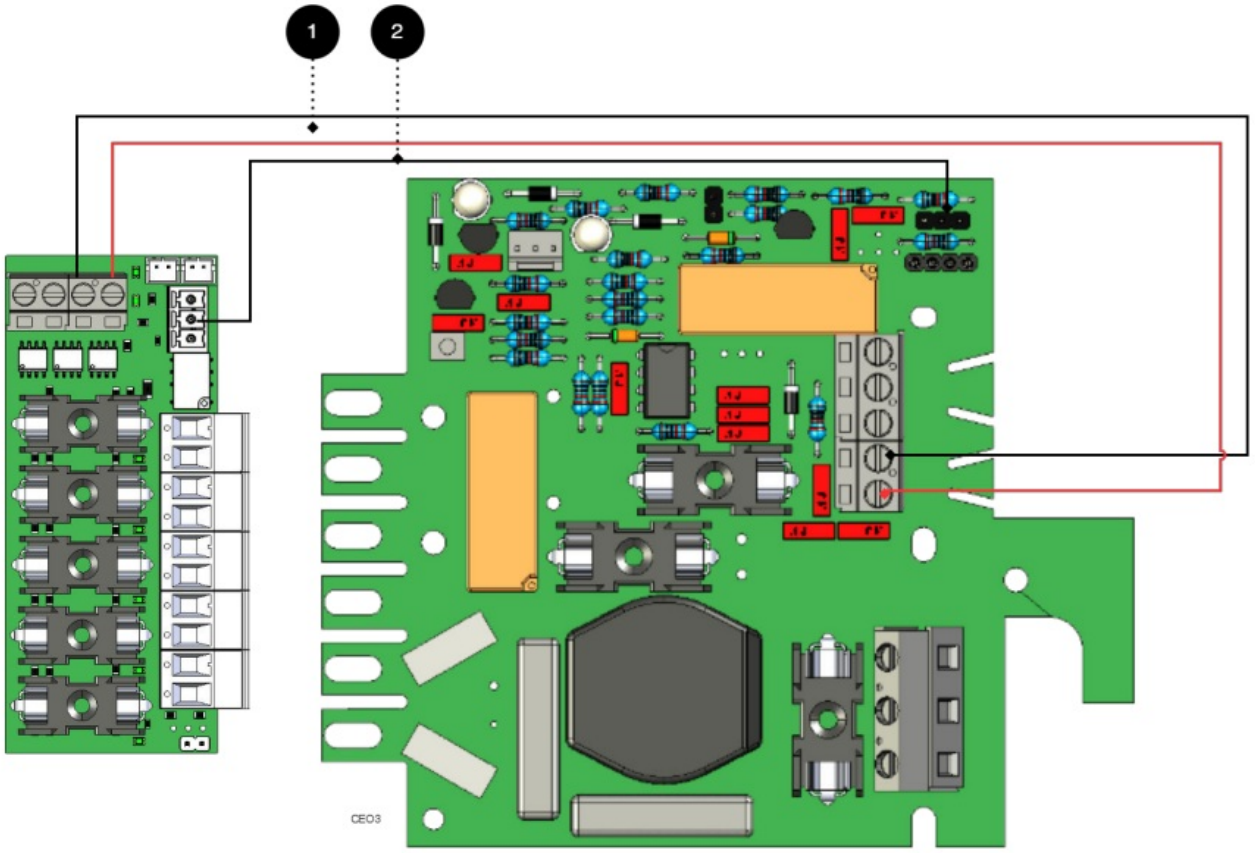


Circuit Board Overview – 5 Output module

Nr	On circuit boards	Explanation
1	D1-D4	Green indicator LED, illuminates with a solid green light when the fuse is ok.
2	F1-F5	Fuses
3	J22, J23	Incoming voltage from motherboard, 24 V.
4	D29	Red indicator LED, illuminates with a solid green light when a fuse is broken.
5	D30	Green indicator LED, illuminates with a solid green light when the fuse is ok.
6	J6	Connection to alarm on motherboard.
7	J7	Bridging connection for alarms from another card.
8.1	P3: 1-3	Alarm output, NC.
8.2	P3:2	Alarm output, Com,
8.3	P3:3	Alarm output, NO,
9	P2: 1-10	Load output +/-
10	JU4	Jumper for setting the voltage in the card. Unbuilt = 24 V (factory setting). Built = 12 V. * * The card must have the same voltage as the motherboard.

CONNECT 5 OUTPUT MODULE FOR MOTHERBOARD: CEO3 V2.1

Connect the card as shown in the illustration.



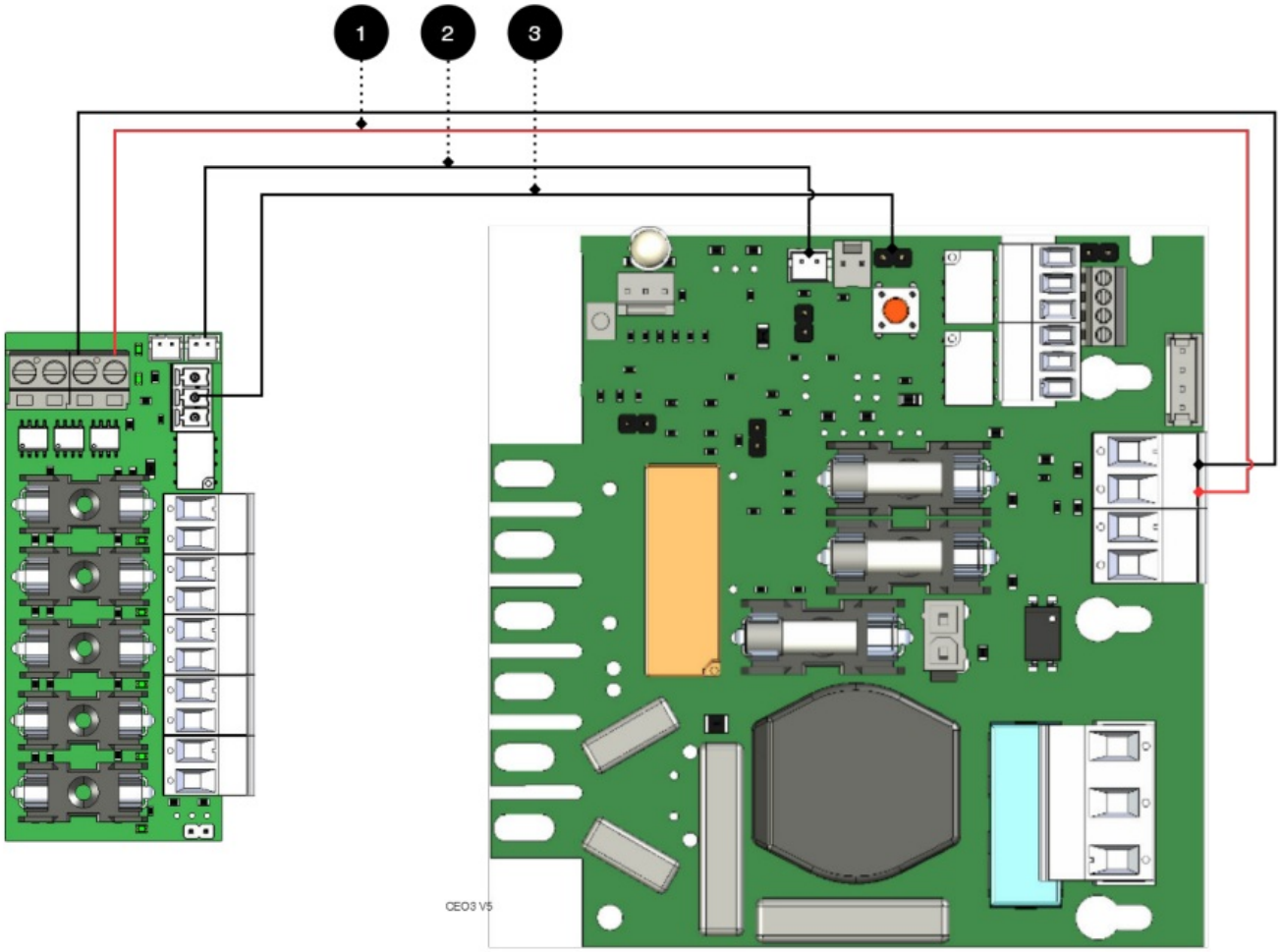
+ and – from load on motherboard is connected to + and – on the option card. Communication is connected between terminals as the solid line shows.

Connections from battery backup to security card

Nr	Couplings	5 Output module	Motherboard
1	Power supply connection:	IN 12 V / 24 V	Load output 1
2	Alarm output: switched between NO a nd Com.	J6	JU3 – connect middle pin and one out er pin.

CONNECT 5 OUTPUT MODULE FOR MOTHERBOARD: CEO3 V5

Connect the card as shown in the illustration.



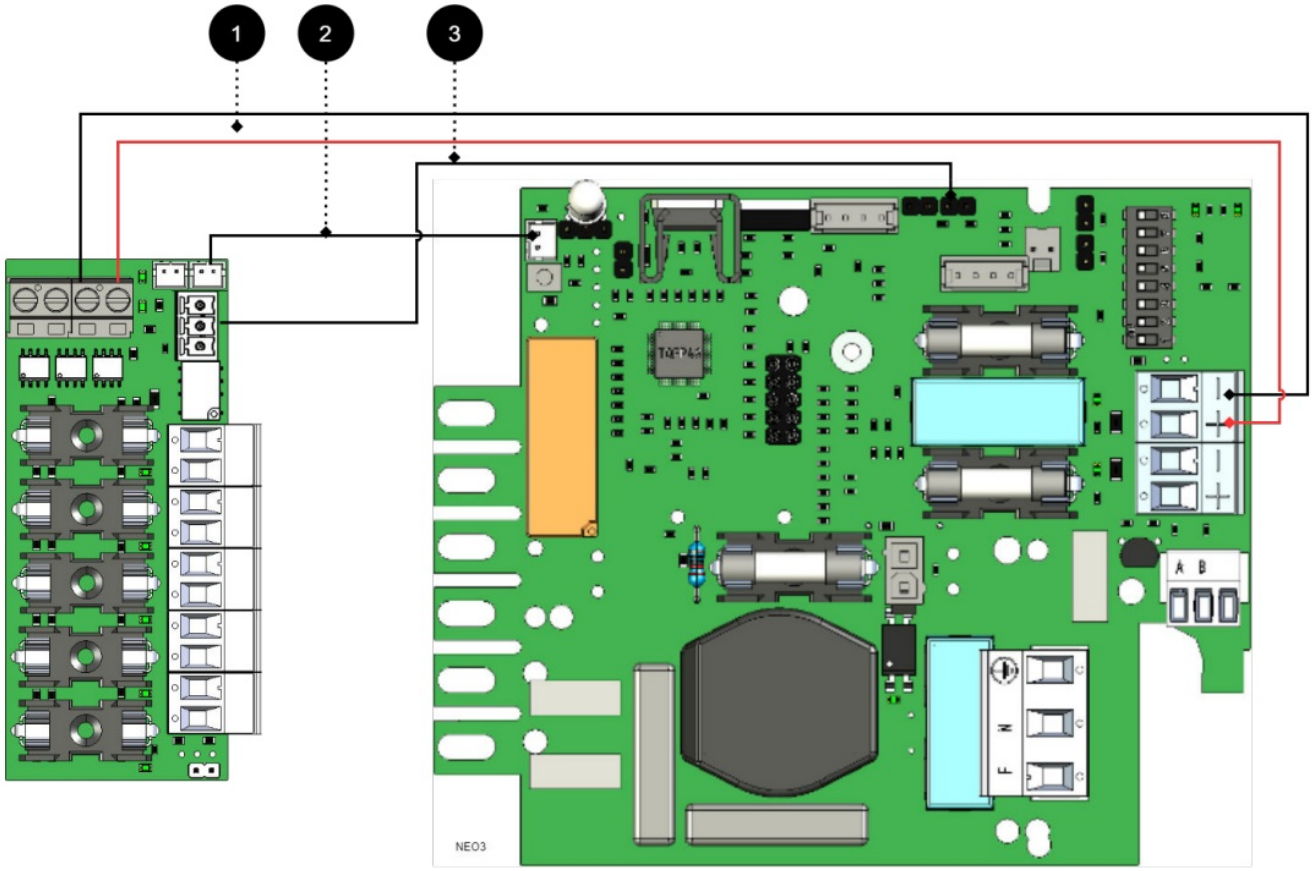
+ and – from load on motherboard is connected to + and – on the option card.
Communication is connected between terminals as the solid line shows.

Connections from battery backup to security card

Nr	Couplings	5 Output module	Motherboard
1	Power supply connection:	IN 12 V / 24 V	Load output 1
2	Connection to alarm on motherboard or bridging of a larm to another 5 Output module	J6 J7	J27 –
3	Alarm output:	P3: 1-3	JU3

CONNECT 5 OUTPUT MODULE FOR MOTHERBOARD: NEO3

Connect the card as shown in the illustration.



+ and – from load on motherboard is connected to + and – on the option card.

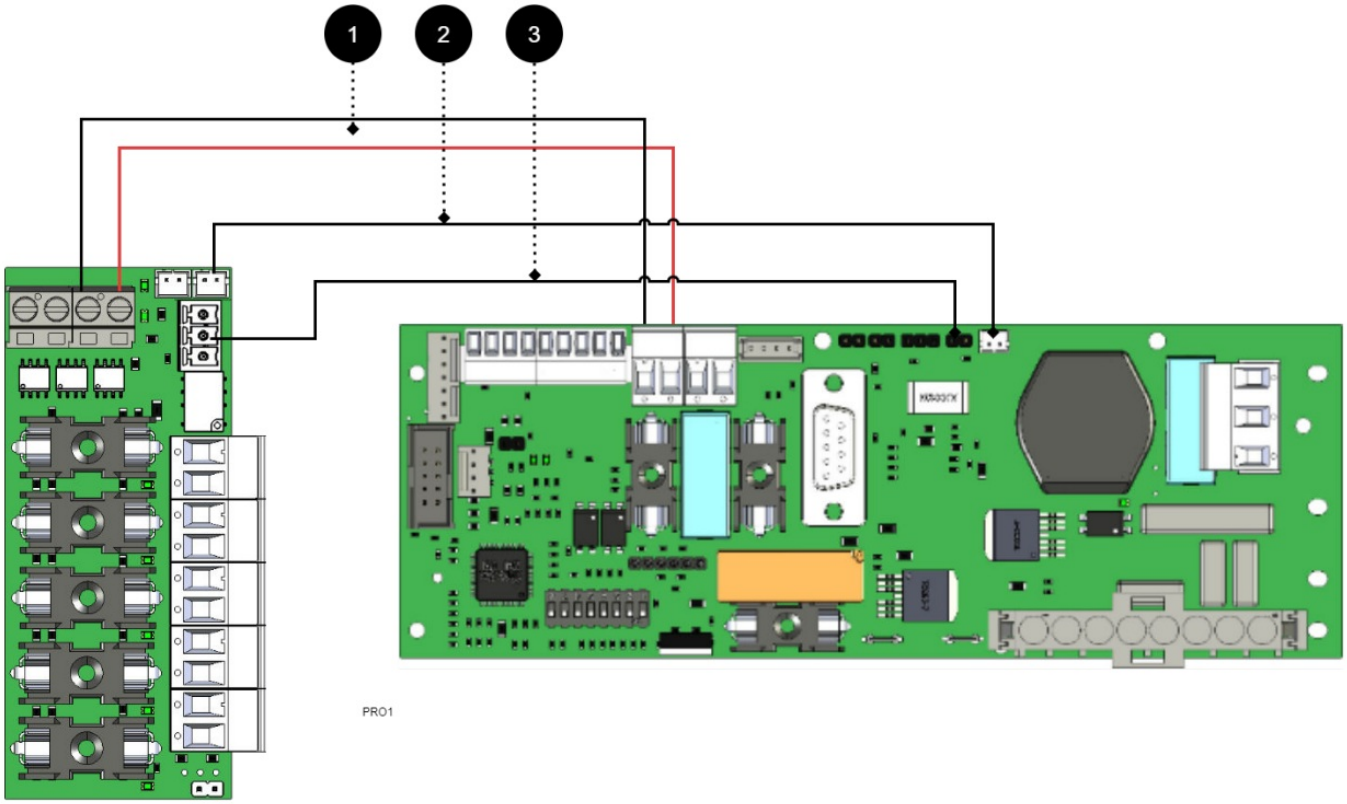
Communication is connected between terminals as the solid line shows.

Connections from battery backup to security card

Nr	Couplings	5 Output module	Motherboard
1	Power supply connection:	IN 12 V / 24 V	Load output 1
3	Alarm output:	P3: 1-3	J10
2	Connection to alarm on motherboard: bridging of alarms to / from additional option cards	J6 J7	J5 –

CONNECT 5 OUTPUT MODULE FOR MOTHERBOARDS: PRO1 5 A AND 10 A

Connect the card as shown in the illustration.



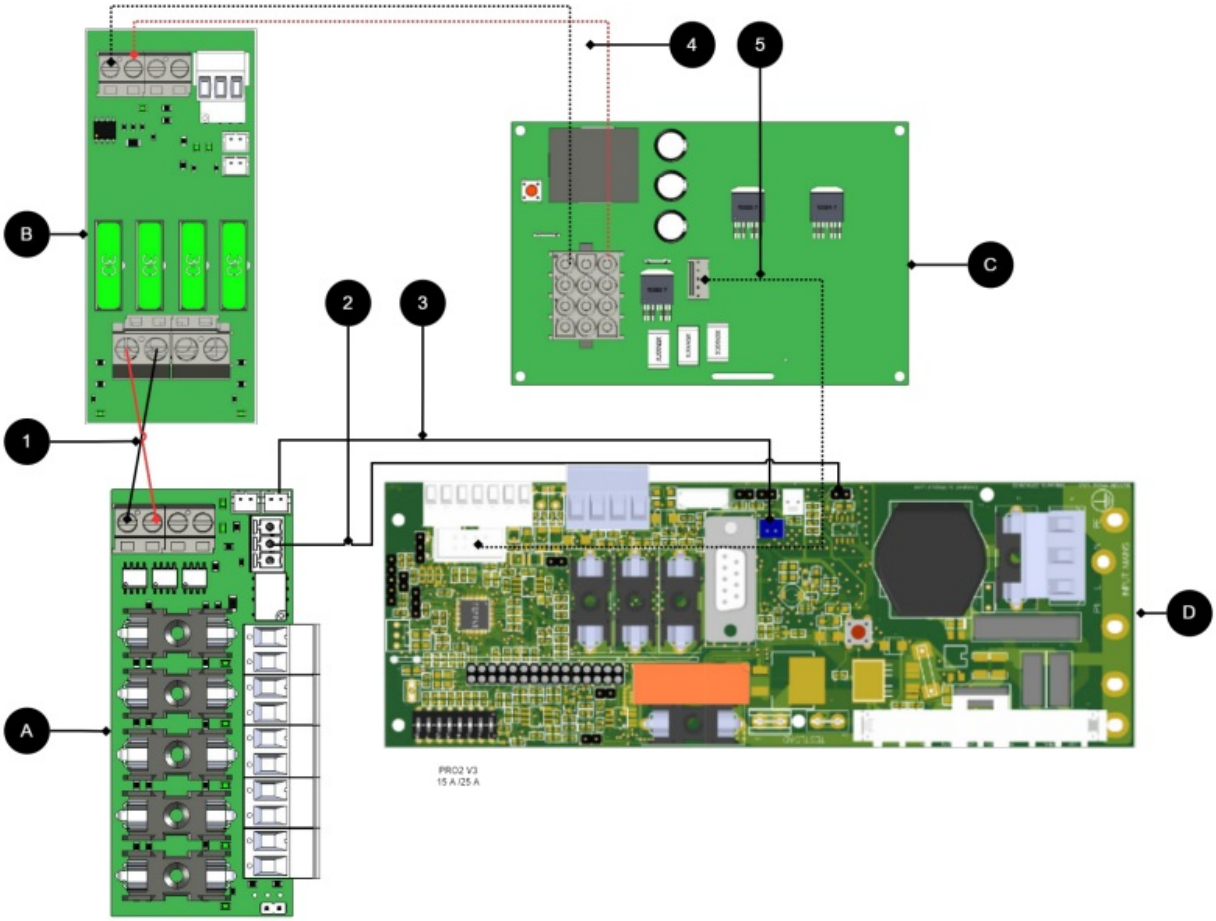
+ and – from load on motherboard is connected to + and – on the option card.

Communication is connected between terminals as the solid line shows.

Connections from battery backup to security card

Nr	Couplings	5 Output module	Motherboard
1	Power supply connection:	IN 12 V / 24 V	Load output 1
2	bridging of alarms for motherboards: bridging of alarms from / to additional option cards	J7 J6	J13 –
3	Alarm output:	P3: 1-3	J15

CONNECT 5 OUTPUT MODULE FOR MOTHERBOARD: PRO2 V3 15 A AND 25 A

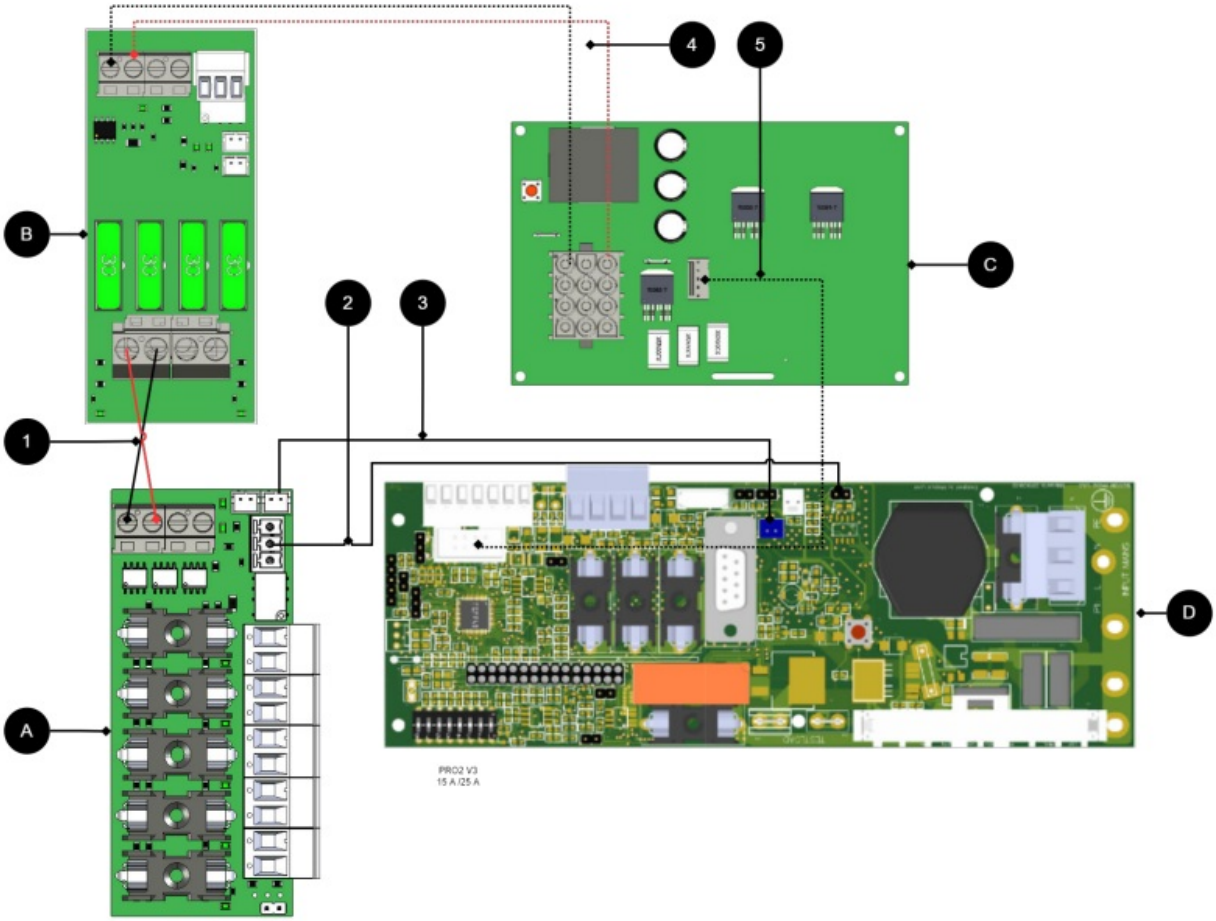


Connections 15 A and 25 A units

No. / letter	On circuit boards	Explanation
A	5 Output module	Option card (A).
B	2 Output module	Connect power supply (24 V) to 5 Output module (A).
C	Power card	Available in 15 A and 25 A units.
D	PRO1	Motherboard
1	IN 24 V	Connect power supply from 2 output module (B).
2	P3: 1-3	Alarm output, connected to J15 on motherboard (D).
3	J7	Connect alarm to motherboard (D) on J13
4, 5	–	Internal power supply and communication between cards.

CONNECT 5 OUTPUT MODULE FOR MOTHERBOARD: PRO2 V3 15 A AND 25 A

Connect the card as shown in the illustration.

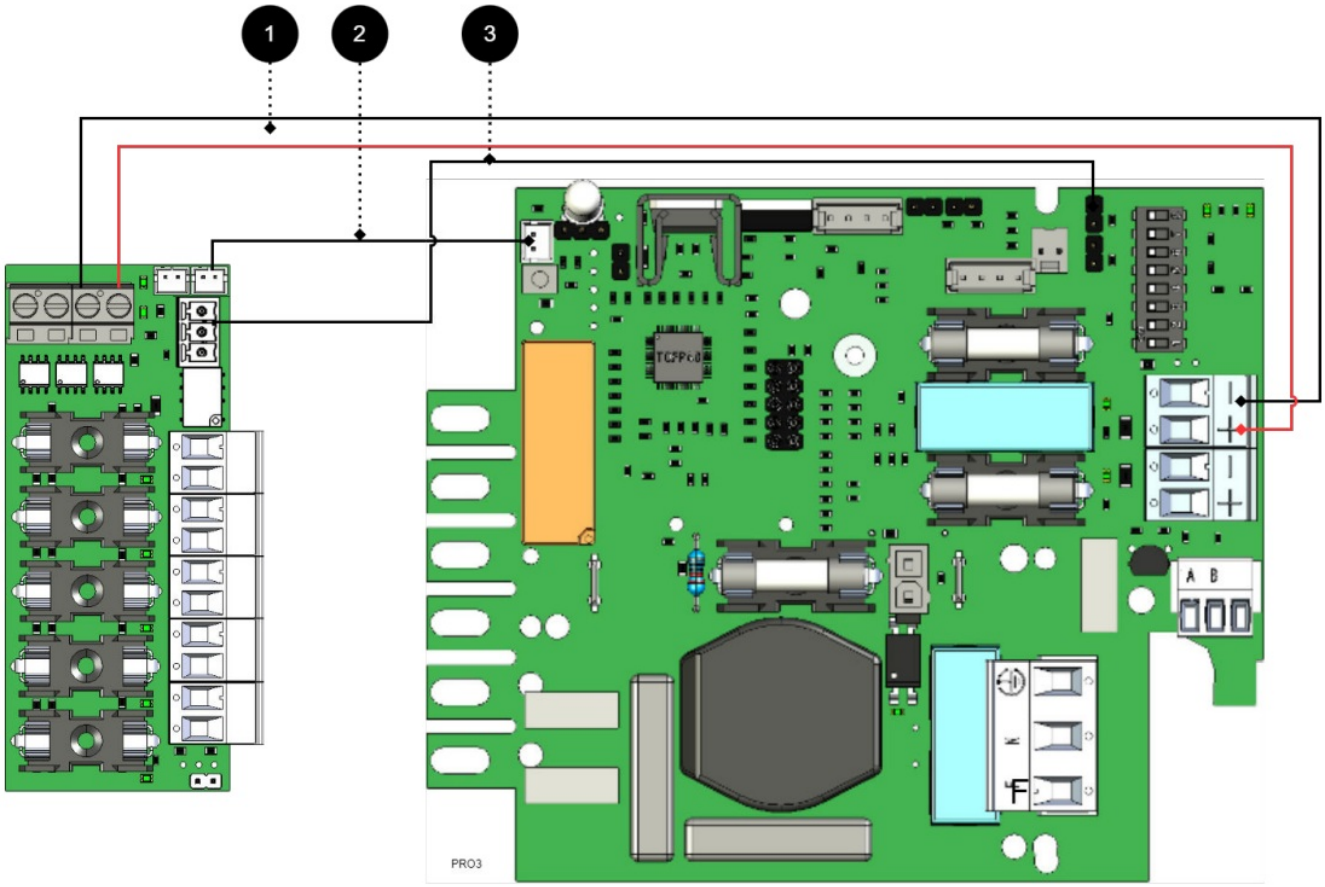


Connections 15 A and 25 A units

No. / letter	circuit board	Explanation
C	Power card	Available only on 15 A and 25 A units.
2	P3: 1-3	Alarm output, connected to J7 on motherboard
D	Motherboard	PRO2 v3
3	J7	Connect alarm to motherboard: J1
1	IN 24 V	Connect power supply from 2 output modules.
A	5 Output module	Option card.
B	2 Output module	Connect power supply (24 V) to 5 Output module.
4, 5	–	Internal power supply and communication between cards.

CONNECT 5 OUTPUT MODULE FOR MOTHERBOARD: PRO3

Connect the card as shown in the illustration.



+ and – from load on motherboard is connected to + and – on the option card.

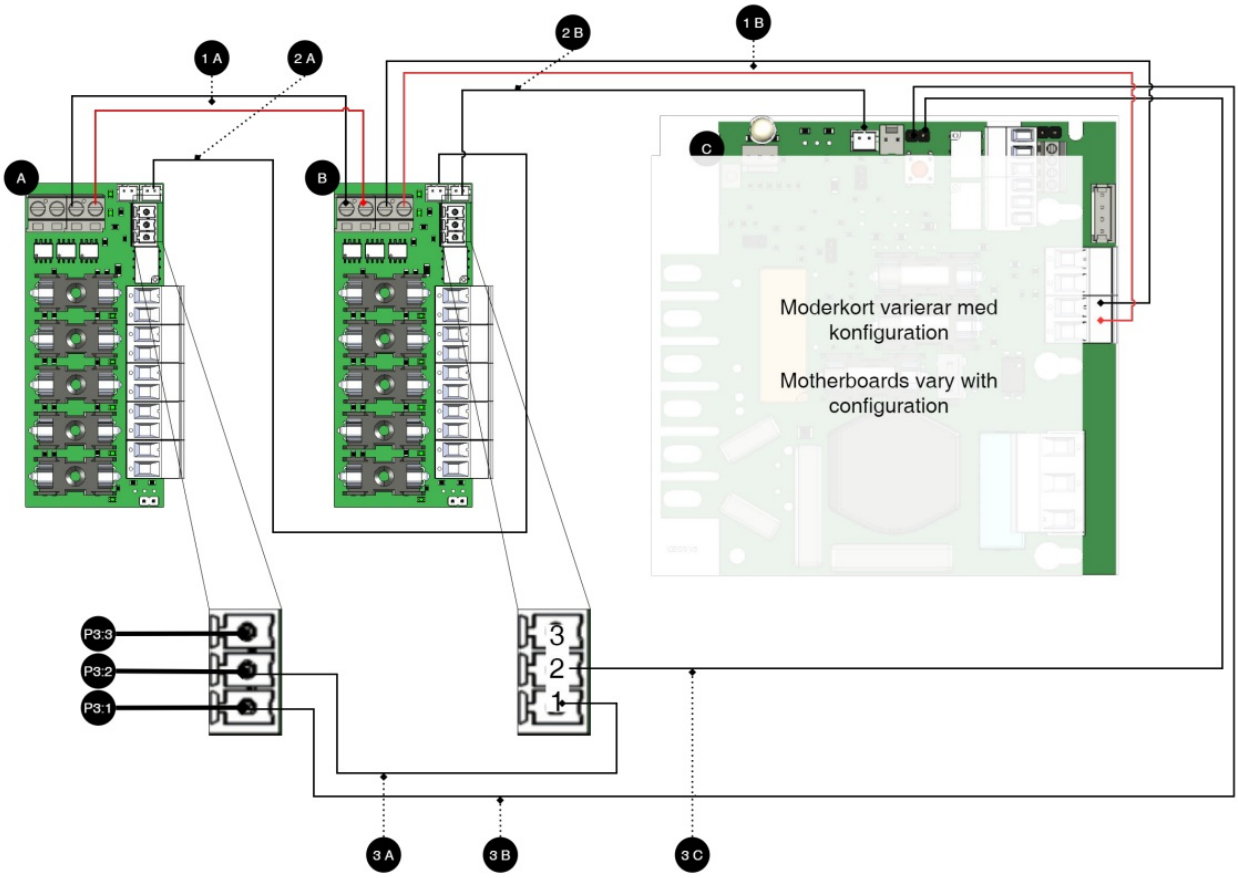
Communication is connected between terminals as the solid line shows.

Connections from battery backup to security card

Nr	Couplings	5 Output module	Motherboard
1	Power supply connection:	IN 12 V / 24 V	Load output 1
2	Connection to alarm on motherboard: bridging of alarms to / from additional option cards.	J7 J6	J5 –
3	Alarm output	P3:1-2	J10

CONNECTION OF ADDITIONAL 5 OUTPUT MODULE

Connection of additional option cards to motherboards



Connection of additional option cards

Letter / No.	Explanation	On the card
A	5 Output module.	–
B	5 Output module.	–
C	Motherboard, varies with configuration.	–

Letter / No.	Explanation	On the card
1 A	Power supply from 1B.	IN 24 V
1 B	Power supply from C (motherboard).	IN 24 V
2 A	Bridging of alarm to card B.	J7
2 B	Connection of alarm on C (motherboard) from card A	See table below.
3 A	Jumper between cards A and B.	P3: 1-3
3 B	Alarm output switches on C (motherboard).	P3: 1-3
3 C	Alarm output is connected to C (motherboard).	P3: 1-3

P3	Explanation
P3:1	NC
P3:2	Com
P3:3	NO

Alarms from optional cards are connected on terminal block (on motherboard)

Motherboard	Terminal as an alarm from an optional card must be connected (on motherboard)
CEO3 v5	J27
NEO3	J5
PRO1	J13
PRO2 v3	J1
PRO3	J5

TECHNICAL DATA – 5 OUTPUT MODULE

Info	Explanation
Short name:	5 Output module
Product description	5 Output module is a fuse module with five fully fused outputs.
The product fits in	Battery backups with motherboards: PRO1, PRO2, PRO2 V3, PRO3 and NEO3.
Measure	85 x 37 mm
Own consumption	35 mA
Tension	12 V or 24 V
Fuses	On load outputs.
Indication	Yes, LED on circuit board

Outputs

Info	Explanation
Alarm outputs, number	1
Alarm on alternating relay? (Yes No)	Yes, sum alarm in case of fuse fault
Alarm output protocol (communication protocol)	–
Load outputs, number	5
Voltage at load output	27.3 V DC
Voltage limit, upper, on load output	27.9 V DC
Voltage limit, lower, on load output. For battery operation and disconnected mains voltage.	20 V DC

Info	Explanation
Priority (always voltage) load outputs (Yes / No)	Yes
Maximum load, per output	10 A
Maximum load, total, (must not be exceeded).	16 A
Load output plus (+) secured? (Yes No)	Yes
Load output minus (-) secured (Yes / No)	No

Info	Explanation
Connection to buzzer? (Yes No)	No

Manufactured in Milleteknik's factory in Partille, Sweden.
This translation is not verified and should be cross referenced with the swedish original before use.

ADDRESS AND CONTACT DETAILS

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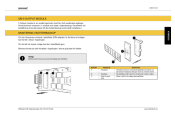
Documents / Resources

	Milleteknik CEO3 V2.1 Output Control Module Motherboard [pdf] User Guide CEO3 V2.1 Output Control Module Motherboard, CEO3 V2.1, Output Control Module Motherboard, Module Motherboard, Motherboard