



230V Powercord Incl. Tamper switch

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Data och konstruktion kan ändras utan föregående meddelande.



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## 1. TECHNICAL SPECIFICATIONS: 230V POWERCORD INCL. TAMPERSWITCH

230 V connection cable for power supply from Milletechnik.

## 2. TECHNICAL SPECIFICATIONS: TAMPER SWITCH

T-Tamperswitch is an accessory for battery backups which is a microswitch which, when connected to the motherboard, gives an alarm for tampering.

T-Tamperswitch can also be connected to external alarms, this is done in the devices that do not support tamper alarms on motherboards.

## 3. CONNECT MAINS

Pull wiring through the cable entry on the cabinet.

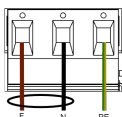
If possible, secure the mains cable with cable ties where possible.

Electrical network cabling shall be kept separate from other cabling to avoid EMC interference.





Figure 1. Connect the mains to the motherboard



Connect the mains cable to the terminal before it is put back on the motherboard. Secure F and N with cable ties for electrical safety.

Table 1. Electrical network connections

Letter	Explanation
F	Phase
N	Neutral
PE	Protective earth



### **ELECTRICAL MAINS CONNECTION 230 V AC ON CIRCUIT BOARD**

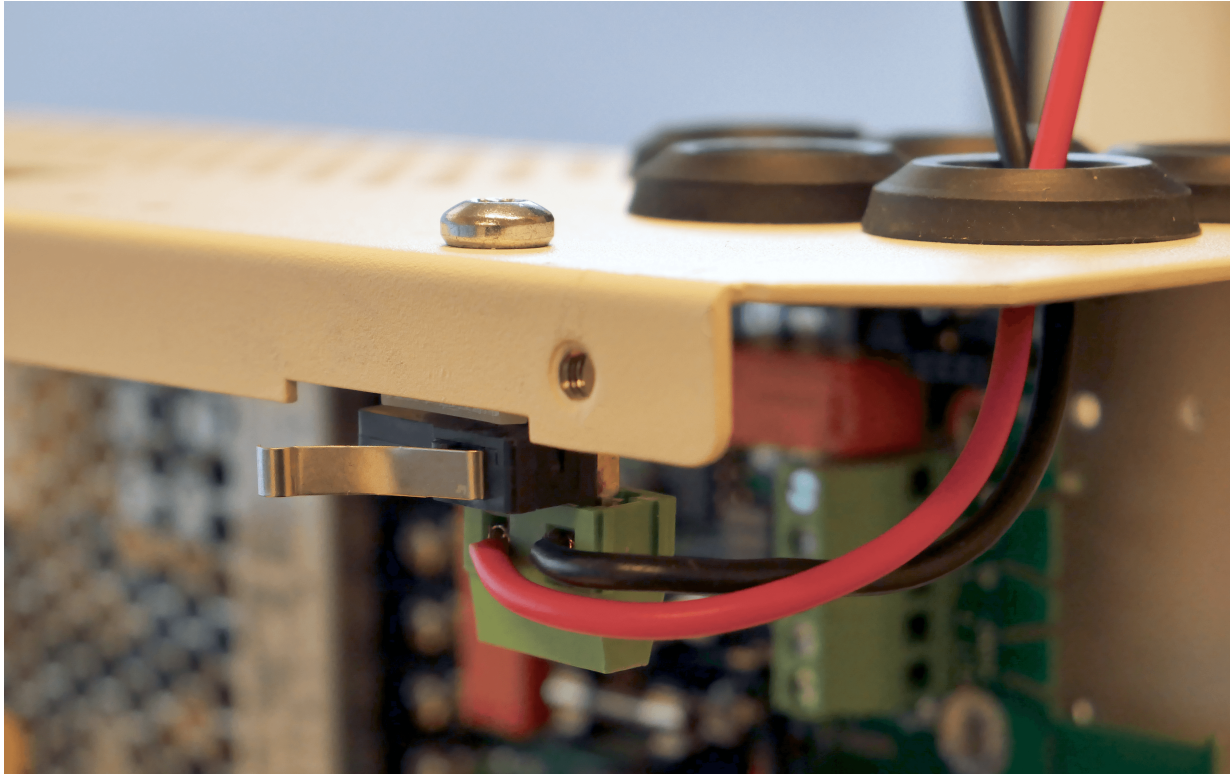
Check that the marking on the circuit board matches the cable arrangement on the terminal block.

## 4. INSTALLATION OF TAMPER SWITCH IN M

Tamper switch in the cabinet of size M has its place on the right, in front of the cable entry.

IN there is no connection for tamper contact on circuit boards, so alarms from tamper switches must be connected externally.



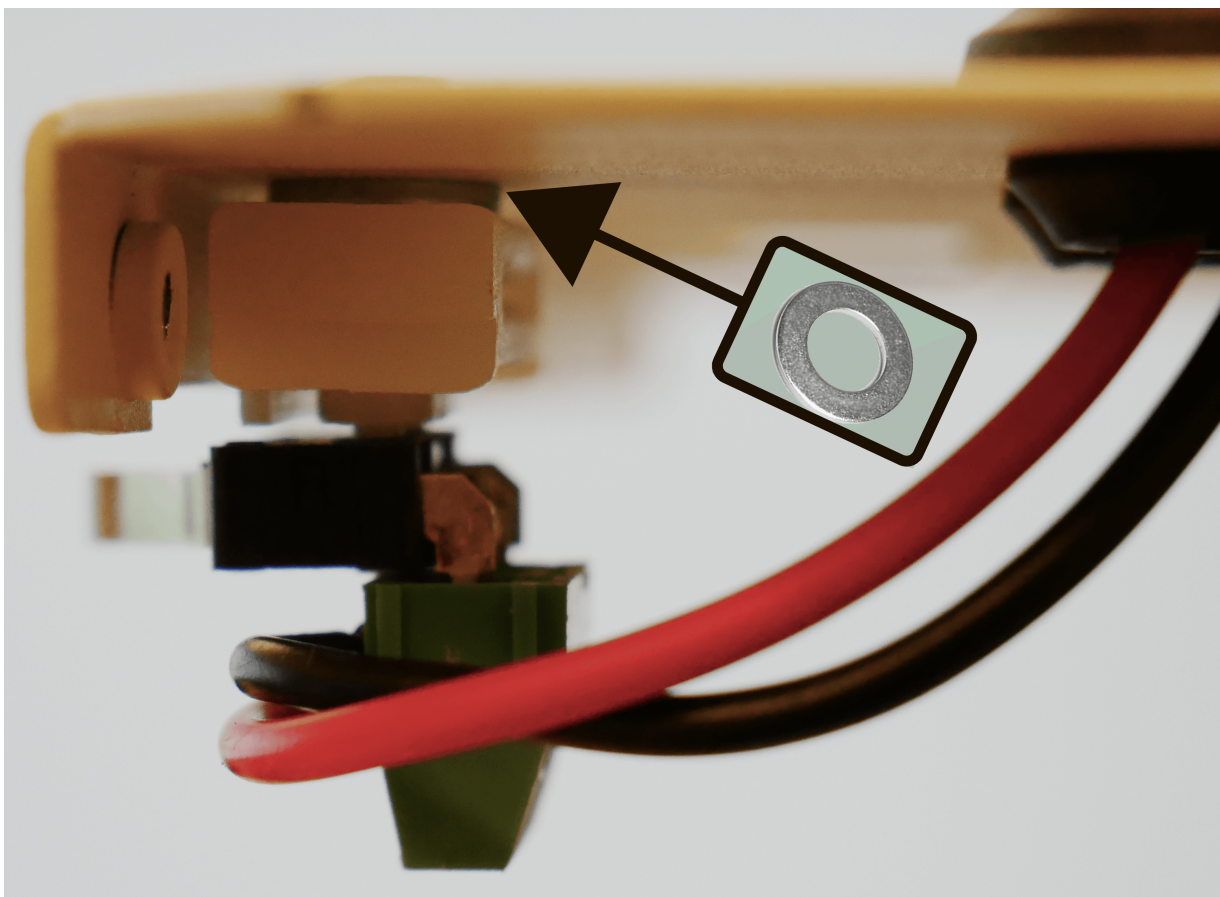


1. Screw tamper switch in the roof of the cabinet.
2. There should be a washer between the white piece of plastic and the ceiling on the inside of the cabinet.  
(If the washer is on the top, it is not possible to close the lid.)
3. Connect cables, tamper connector has no connection on circuit board.





Figure 2. Washer placement is between the white plastic piece and the roof of the cabinet



## 5. TAMPER SWITCH AND ALARM CLASS 3/4 ACCORDING TO SSF1014

- Tamper switch must be attached to the wall to comply with alarm class 3/4 according to SSF1014.
- The tamper switch must be connected to the system board.

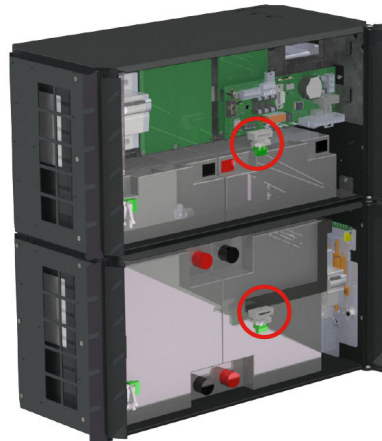
If the distance is long from the wall when mounting in a rack, for example, a spacer is needed. It is the installer's responsibility to install the appropriate spacer. The tamper switch in the cabinet must end when the cabinet door is closed. If the alarm goes off ("tamper alarm" / alarm to the control panel), the lever may need to be adjusted.

Tolerance levels for tamper contact: Alarm must be triggered when: Opening the cabinet door; > 1 mm.  
Breaking unit from wall:> 2.5 mm.



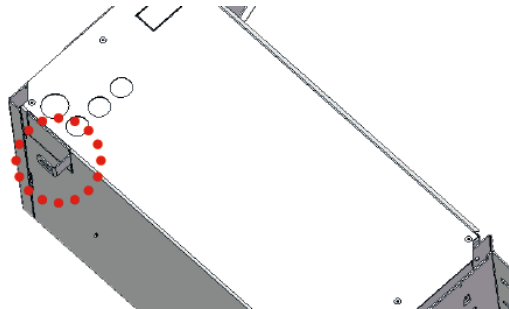


Figure 3. Placement of tamper switch when wall mounted.



The picture shows location in battery backup and battery box.

Figure 4. The angle of the tamper switch must be fixed to the wall.



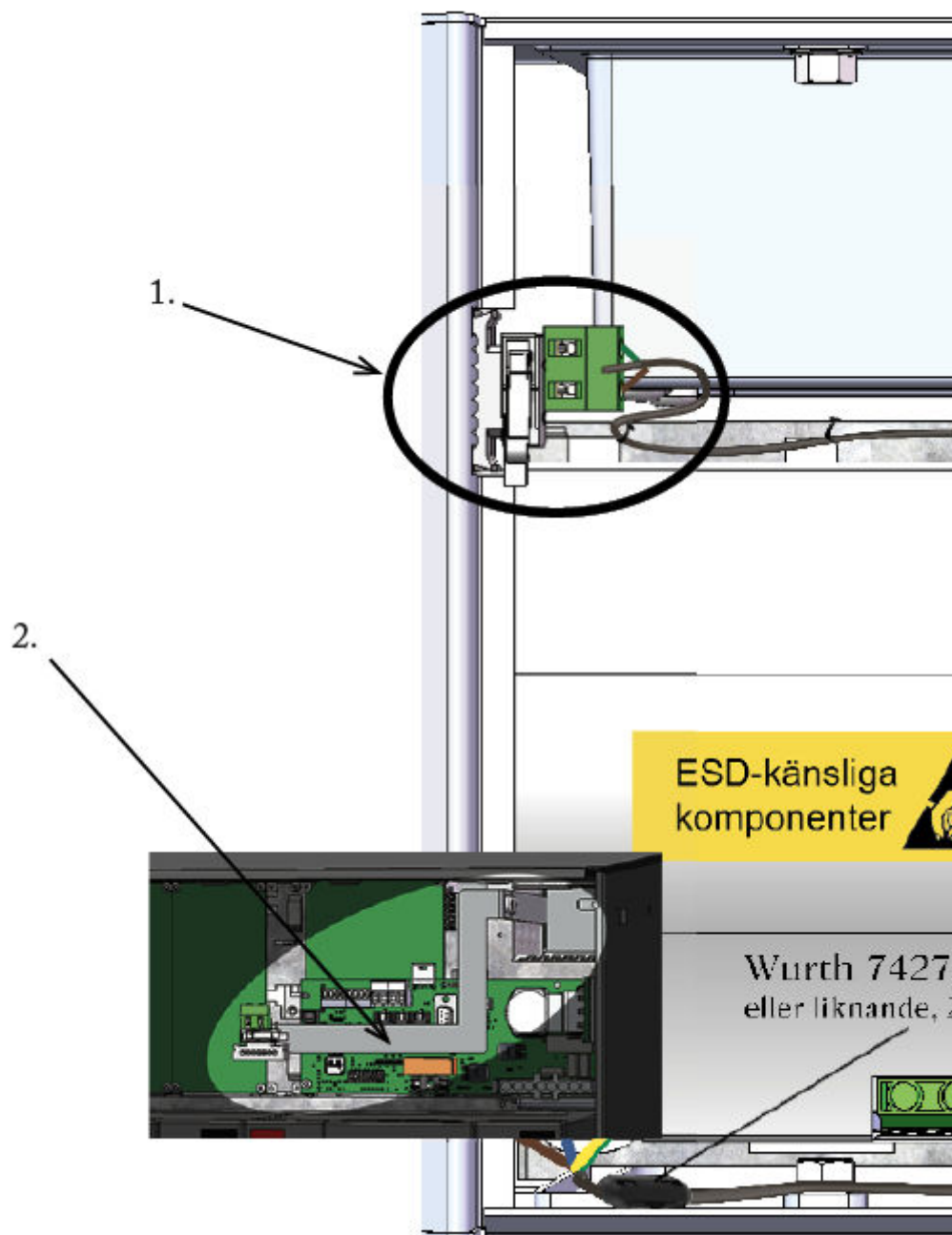
## 6. INSTALLATION OF TAMPER SWITCH IN FLX S

### 6.1. Tamper switch placements

The T-Tamperswitch must be in one of two placements:

1. To alarm when the door is opened, then the T-Tamperswitch placed in the cabinet above the lock.
2. In the wall to give an alarm in the event of breakage of the entire enclosure T-tamperswitch must be mounted in the wall to meet the alarm class according to SSF. Note that sheet metal angle may differ from actually delivered.





## 7. INSTALLATION OF TAMPER SWITCH IN FLX M

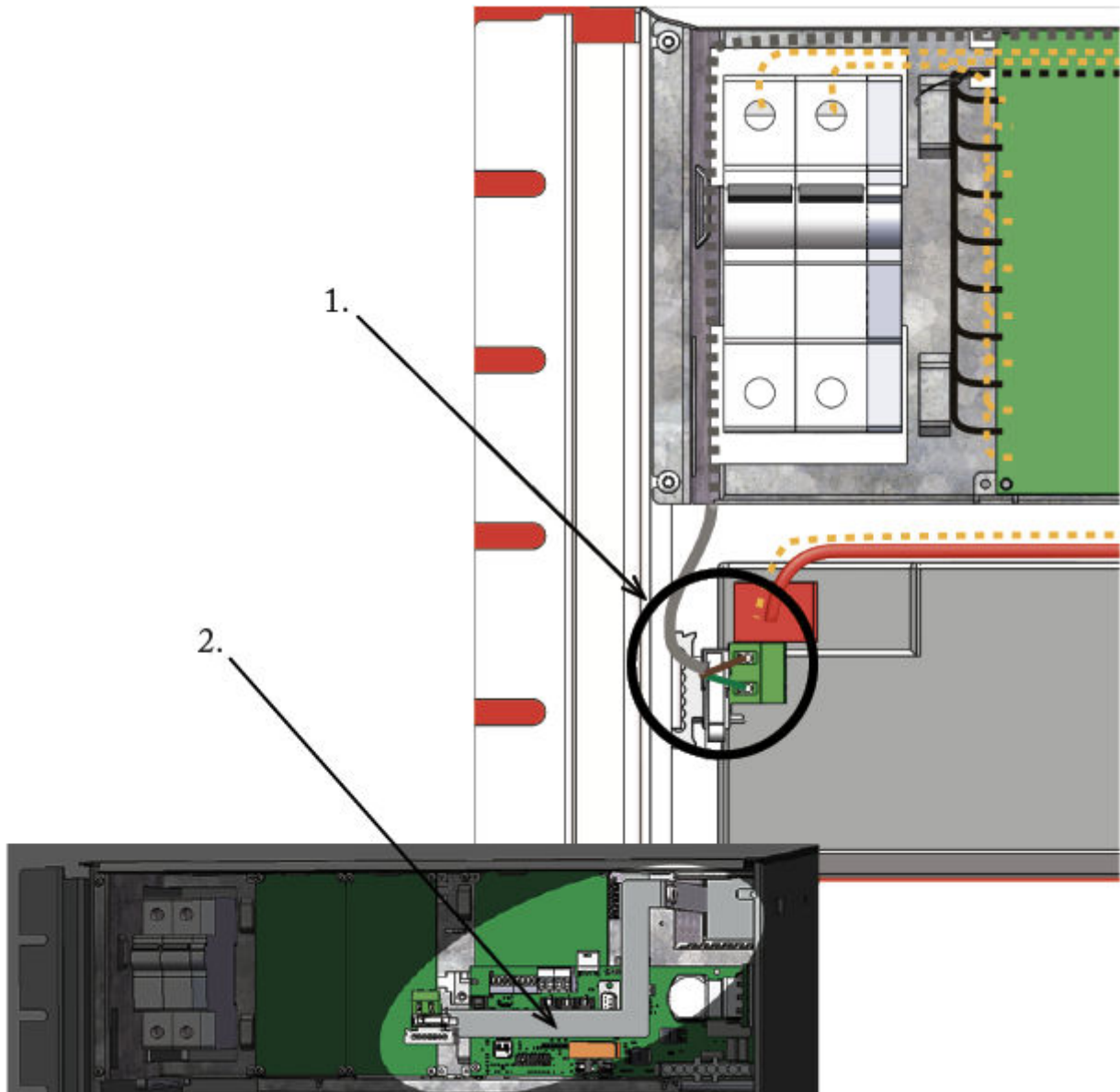
### 7.1. Tamper switch placements

The T-Tamperswitch must be in one of two placements:

1. To alarm when the door is opened, then the T-Tamperswitch placed in the cabinet above the lock.
2. In the wall to give an alarm in the event of breakage of the entire enclosure T-tamperswitch must be mounted in the wall to meet the alarm class according to SSF. Note that sheet metal angle may differ from actually delivered.







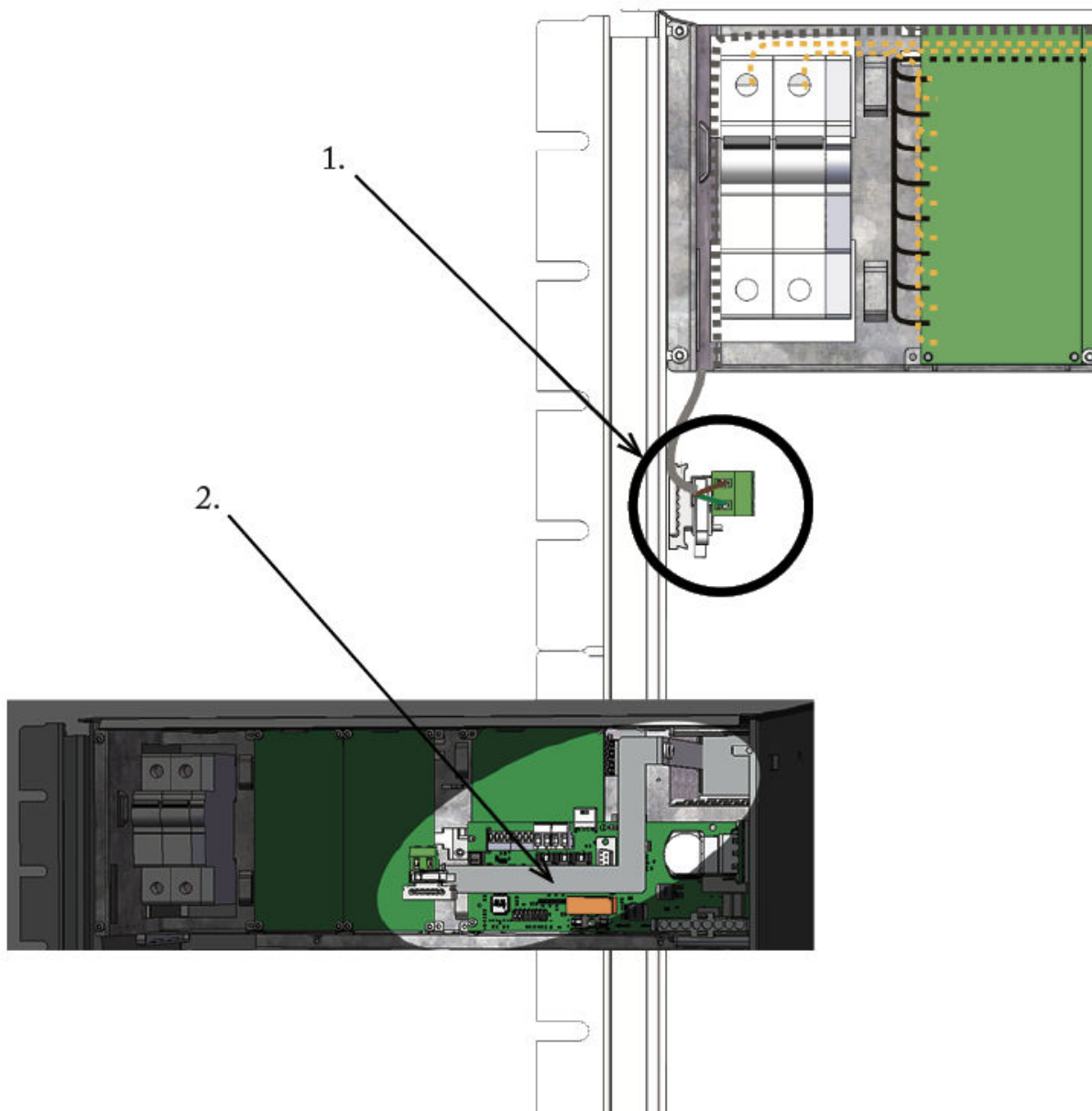
## 8. INSTALLATION OF TAMPER SWITCH IN FLX L

### 8.1. Tamper switch placements

The T-Tamperswitch must be in one of two placements:

1. To alarm when the door is opened, then the T-Tamperswitch placed in the cabinet above the lock.
2. In the wall to give an alarm in the event of breakage of the entire enclosure T-tamperswitch must be mounted in the wall to meet the alarm class according to SSF. Note that sheet metal angle may differ from actually delivered.



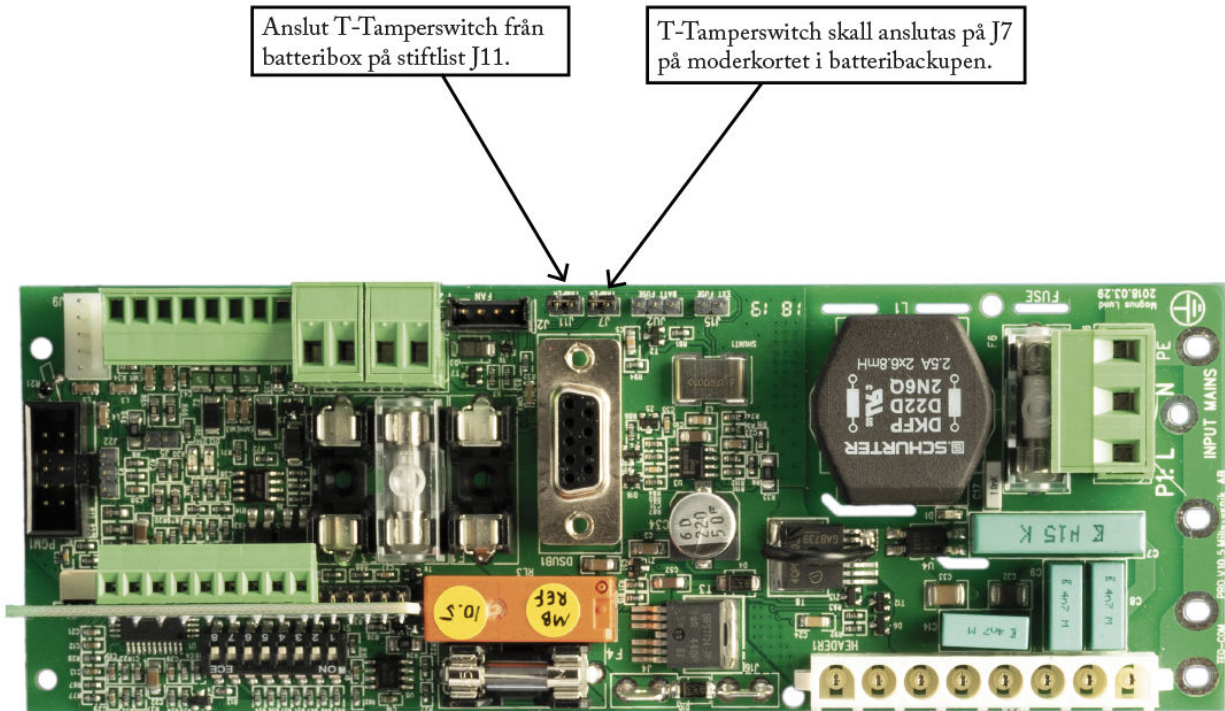


## 9. CONNECTION OF TAMPER SWITCH ON PRO1

The battery backup should not be connected to mains when connecting.

- Connector from T-Tamperswitch must be connected to J7 on the motherboard in the battery backup.
- The connector from the T-Tamperswitch in the battery box must be connected to J11 on the motherboard in the battery backup.





## 9.1. Alarm from tamper

When the T-Tamperswitch is correctly installed, an alarm must be given on the cabinet door (Slow green flashing) to the Sabotage (tamper) battery backup.

If the battery backup is connected to an alarm-station then alarm for sabotage will be given when the micro switch connection is broken.

## 10. CONNECTION OF TAMPER SWITCH ON PRO2

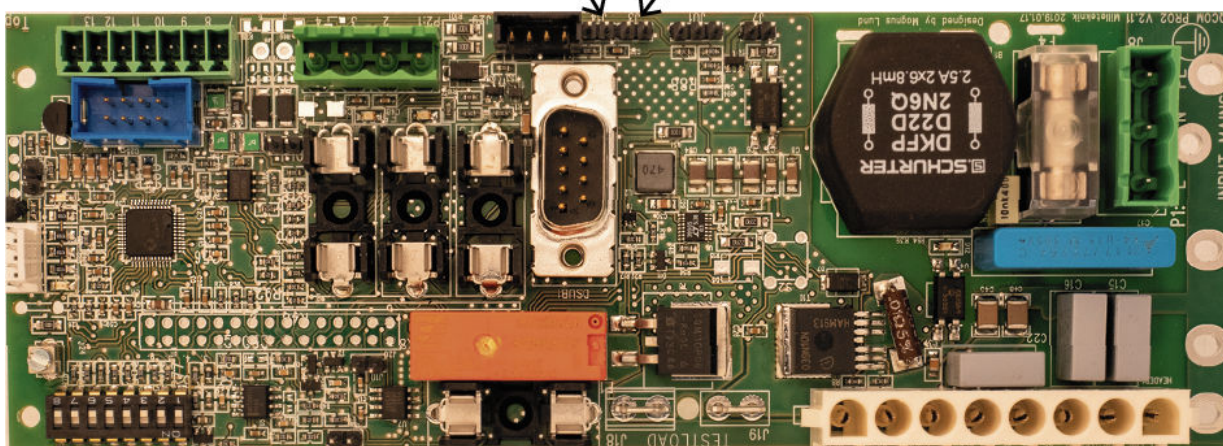
The battery backup should not be connected to mains when connecting.

- Connector from T-Tamperswitch must be connected to J3 on the motherboard in the battery backup.
- The connector from the T-Tamperswitch in the battery box must be connected to J14 on the motherboard in the battery backup.



Anslut T-Tamperswitch från batteribox på stiftlist J14.

Anslut T-Tamperswitch i batteribackup på stiftlist J3.



## 10.1. Alarm from tamper

When the T-Tamperswitch is correctly installed, an alarm must be given on the cabinet door (Slow green flashing) to the Sabotage (tamper) battery backup.

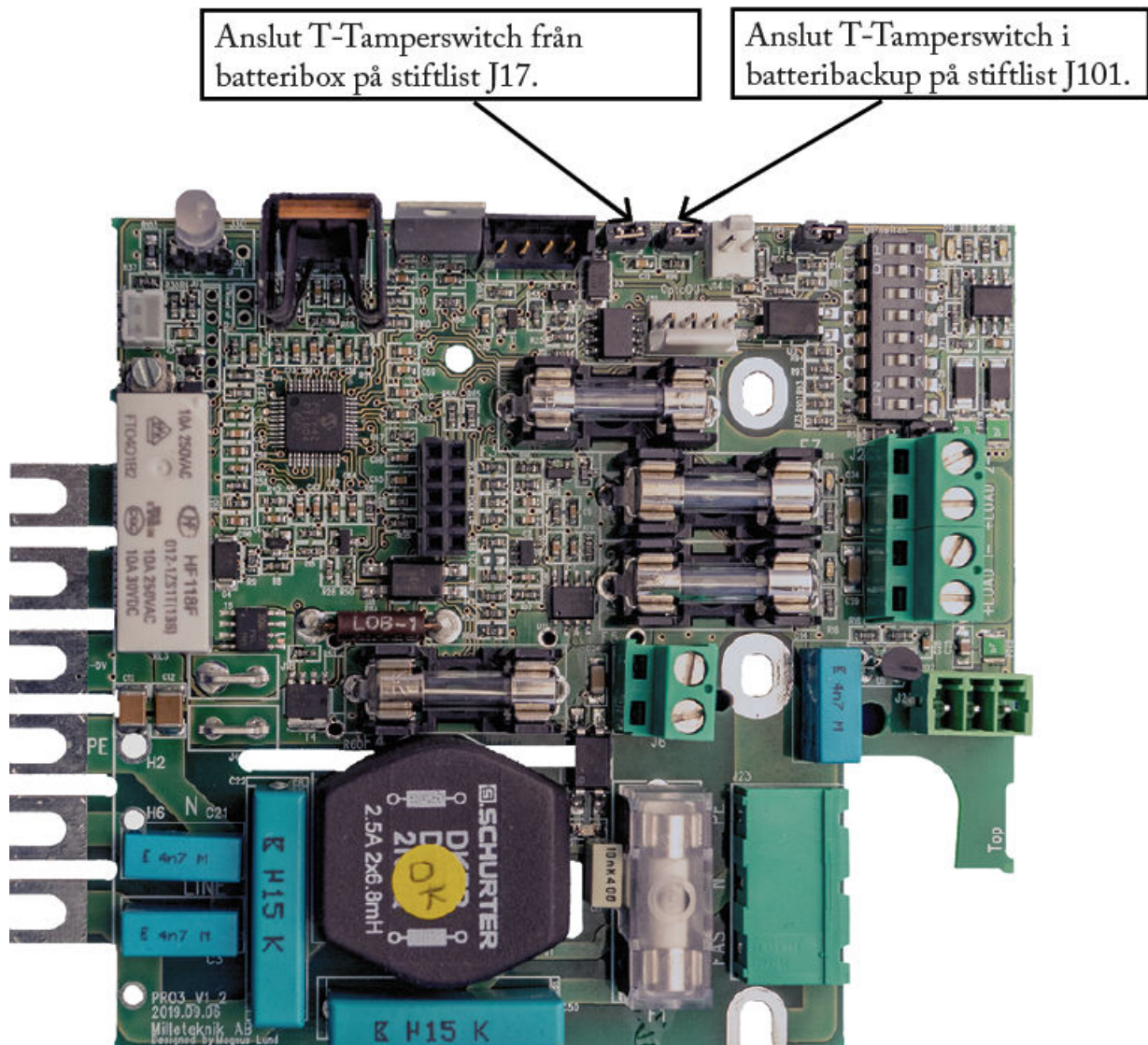
If the battery backup is connected to an alarm-station then alarm for sabotage will be given when the micro switch connection is broken.

## 11. CONNECTION OF TAMPER SWITCH ON PRO3

The battery backup should not be connected to mains when connecting.

- Connector from T-Tamperswitch must be connected to J101 on the motherboard in the battery back-up.
- The connector from the T-Tamperswitch in the battery box must be connected to J7 on the motherboard in the battery backup.





## 11.1. Alarm from tamper

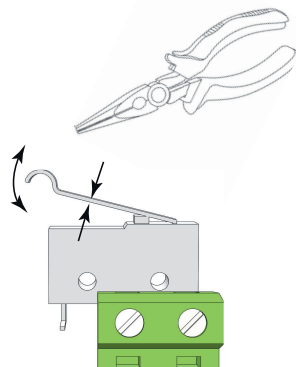
When the T-Tamperswitch is correctly installed, an alarm must be given on the cabinet door (Slow green flashing) to the Sabotage (tamper) battery backup.

If the battery backup is connected to an alarm-station then alarm for sabotage will be given when the micro switch connection is broken.





## 12. ADJUSTMENT OF TAMPER SWITCH



The tamper switch lever must be in the closed position when the cabinet door is closed. If the alarm goes off ("tamper alarm"), the lever may need to be adjusted.

The lever is adjusted by the following steps:

1. Pinch with pliers in the middle of the lever.
2. Carefully adjust the lever in the desired direction (up / down).
3. Check by closing the door. A click is heard when the contact is closed.



### NOTICE

Tamper switch will not give an alarm when closed and locked the door.

## 13. CONNECTION OF TAMPER DEVICES THAT DO NOT HAVE A COMMUNICATION CONNECTION

If there is no connection on the circuit board, as in , alarms from tamper switches must be connected to an external alarm.

## 14. TECHNICAL DATA 230V POWER CORD INCL. TAMPER SWITCH

Article name	230V Power cord Incl. Tamper switch
Item number	A-00002301FA01
Email number	5257446
Type	230 V connection cable for battery backup.
Length	2 meters





## 15. TECHNICAL DATA: TAMPER SWITCH

Name	T-Tamperswitch
Type	Microswitch
Voltage	12 V / 24 V

Manufactured in Milleteknik's factory in Partille, Sweden.

This translation is not verified and should be cross referenced with the swedish original before use.

### 15.1. About translation of this document

User manual and other documents are in the original language in Swedish. Other languages are machine translated and not reviewed, errors may occur.



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