Start test:
- (a) Connect spade crimp to battery
- (b) Connect 230VAC to circuit breaker
- (c) Check the **OK** LED is lit
- (d) Disconnect 230VAC from circuit breaker and remove spade crimp from battery

Quick Guide SVM Control Panel **Actulux**

1 Connection to Actuator/LIP/Motor

- Remove 27KΩ resistor for line monitoring from terminal 2-3. (27KΩ is used for 3-wire monitoring)
- Connect Motors/LIP to terminal 2-3
  - At opening, terminal 3 = +
- Line monitoring "2-wire"
  - Check Jumper J2 in "Motor Line" (factory fitted)
  - Check/move Jumper J3 = number of LIP's (27KΩ resistors at 3-wire monitoring)
- No line monitoring
  - Remove Jumper J2 and J3

For more information see page 6-7 in Manual for SVM

2 Connection of Fire Switch

- Remove 10KΩ resistor for line monitoring from terminal 13-14 (this is not used in BVT fire switch)
- Connect the fire switch to terminal 10-11-12-13-14-15
- Make sure that jumper J1 (10KΩ resistor) for line monitoring in fire switch is mounted, but only in the last one (if several are connected).

For more information see page 8 in Manaual for SVM

3 Connection of Detector

- Remove 10KΩ resistor from terminal 16-17
- Smoke-/ thermo detectors
  - Connect the detectors L2 to terminal 16 and L1 IN to terminal 17
- Mount the 10KΩ resistor in the last detector (for line monitoring) between terminal L1 OUT and L2

For more information see page 9 in Manual for SVM

4 Connection of Comfort Ventilation

- Connect the comfort switch to terminal 18-19-20
  - "UP" to terminal 18
  - "DOWN" to terminal 19
  - "Common" to terminal 20 (Gnd.)

  For more information see page 9 (Installation Guide)

- The control panel is prepared for wireless remote control of comfort ventilation.
- Weather sensor is always recommended for comfort vent.

  For more information see page 18 in Manual for SVM

5 Connection of Weather sensor / Timer

- Connect the weather sensor to terminal 21-22-23
  - NC to terminal 21 (Weather)
  - COM to terminal 22 (Gnd)
  - 24V (plus 24V) to terminal 23 (24V)
- Timer can be connected to terminal 21-22
  - Timers NO to terminal 21 (Weather)
  - Timers COM to terminal 22 (Gnd)

Any potential-free contact (NO) can be connected to terminal 21-22 for close all comfort functions.

For more information see page 15 in Manual for SVM

6 Alarm and Error switch

- Alarm signals are transmitted to external terminal from terminal (potential-free relay contact)
  - 4(COM) 5(NC) 6(NO)
- Fault signals are transmitted via output terminals external systems from terminal (potential-free relay contact)
  - 7(COM) 8(NO) 9(NC)

For more information see page 15 in Manual for SVM

7 Connection from Fire Alarm Panel (AFA)

- Potential-free input signal (NO contact) from eg. AFA connects either terminal 13-14 or terminal 16-17

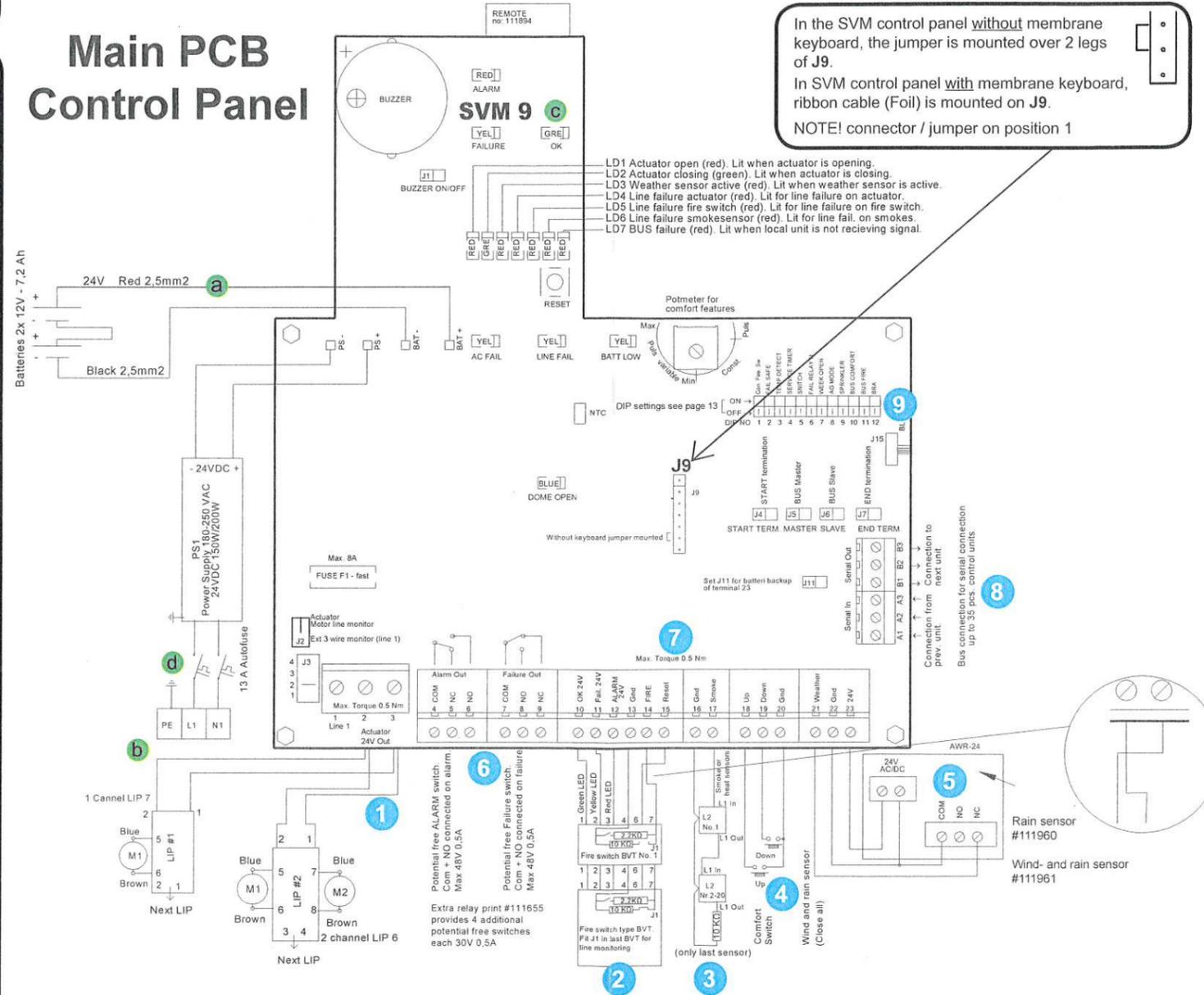*For line monitoring see page 15 in Manual for SVM*

8 BUS connection (several control panels)

Via the bus connection you can send signals to other SV/SVM control panels on terminal A1-A2-A3 and B1-B2-B3. From the control panel on B terminals and to the control panel on A terminals.

- Jumper settings (for SVM control panels)
  - First control panel: Mount J4-J5
  - Middle control panel(s): Mount J6
  - Last control panel: Mount J6-J7
- Optional features
  - Alarm   (to be selected or deselected, DIP11)
  - Comfort   (to be selected or deselected, DIP10)
- Default features / Settings (always active)
  - Reset
  - Weather signal
  - Error indications

For more information see page 14 in Manual for SVM

9 DIP settings

The control panel has many special features that can be activated via DIP switches - e.g.:

- DIP4 Annual service indication: ON (active) OFF (inactive)
- DIP5 Snitch: Remembers errors even if the error disappears, good for troubleshooting

For more information see page 13 in Manual for SVM

10. Optional equipment (examples)

- PCB with 2x2 additional relay outputs (Alarm or Failure Out)
- Remote control for comfort ventilation
- Firemans priority switch. Overrides the alarm and closes
- Room thermostat for controlling comfort ventilation
- Timer, is able to open/close at given times (e.g closing time)

For more information see page 18 in Manual for SVM

Problem / Possible causes table

Problem	Possible causes
LED 3 (Weather sensor) Illuminates though the weather sensor is passive	- The weather sensor's wires are not mounted correctly - Terminal 21-22 are short-circuited. Possibly due to clock / building alarm / CTS
LED 4 (Line monitoring actuator output) Lights	- J2-J3 is not set correctly - Output fuse defective (8A fuse) - Wires in terminal 2-3 are pole reversed Alarm = Window open } Proper operation Reset = Window close
LED 5 (Line error BVT fire switch) Lights	- 10 KΩ resistor must be removed in terminal 13-14 when fire switch is installed. - J1 in the fire switch is not fitted - Wires are not mounted correctly - J1 is in "ON" in other than the last / only fire switch
LED 6 (Line error detector) Lights	- Wires are not correctly connected in the detector - Detector not "clicked" (turned) correctly in the socket
AC error	- No 230VAC supply for control panel - 230V switch in control panel not turned on - Power supply under Main PCB is defect
Line error	- Check internal LEDs on main print to see which output / input has a line error - Ribbon cable from cover or Jumper on J9 is not mounted
Opening system runs in reverse	- Wires in terminal 2-3 are pole reversed Alarm = Window open } Proper operation Reset = Window close
Control panel enters alarm mode immediately	- Check connections to any fire switch/ detector (mismounted) - Verify that connector leads in terminal 16-17 and 13-14 do not touch each other
OK LED lights together with AC FAIL / BATT LOW / LD4 / LD5 / LD6 / LD7 (No sound)	- Snitch function (DIP5) is ON. (Reset = DIP5 OFF – ON)

Main PCB Control Panel

SVM 9

In the SVM control panel without membrane keyboard, the jumper is mounted over 2 legs of J9.
In SVM control panel with membrane keyboard, ribbon cable (Foil) is mounted on J9.
NOTE! connector / jumper on position 1

LD1 Actuator open (red). Lit when actuator is opening.
LD2 Actuator closing (green). Lit when actuator is closing.
LD3 Weather sensor active (red). Lit when weather sensor is active.
LD4 Line failure actuator (red). Lit for line failure on actuator.
LD5 Line failure fire switch (red). Lit for line failure on fire switch.
LD6 Line failure smokesensor (red). Lit for line fail. on smokes.
LD7 BUS failure (red). Lit when local unit is not recieving signal.

DIP settings see page 13