Quick Guide SVM Control Panel Actulux

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

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 Manaual 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*

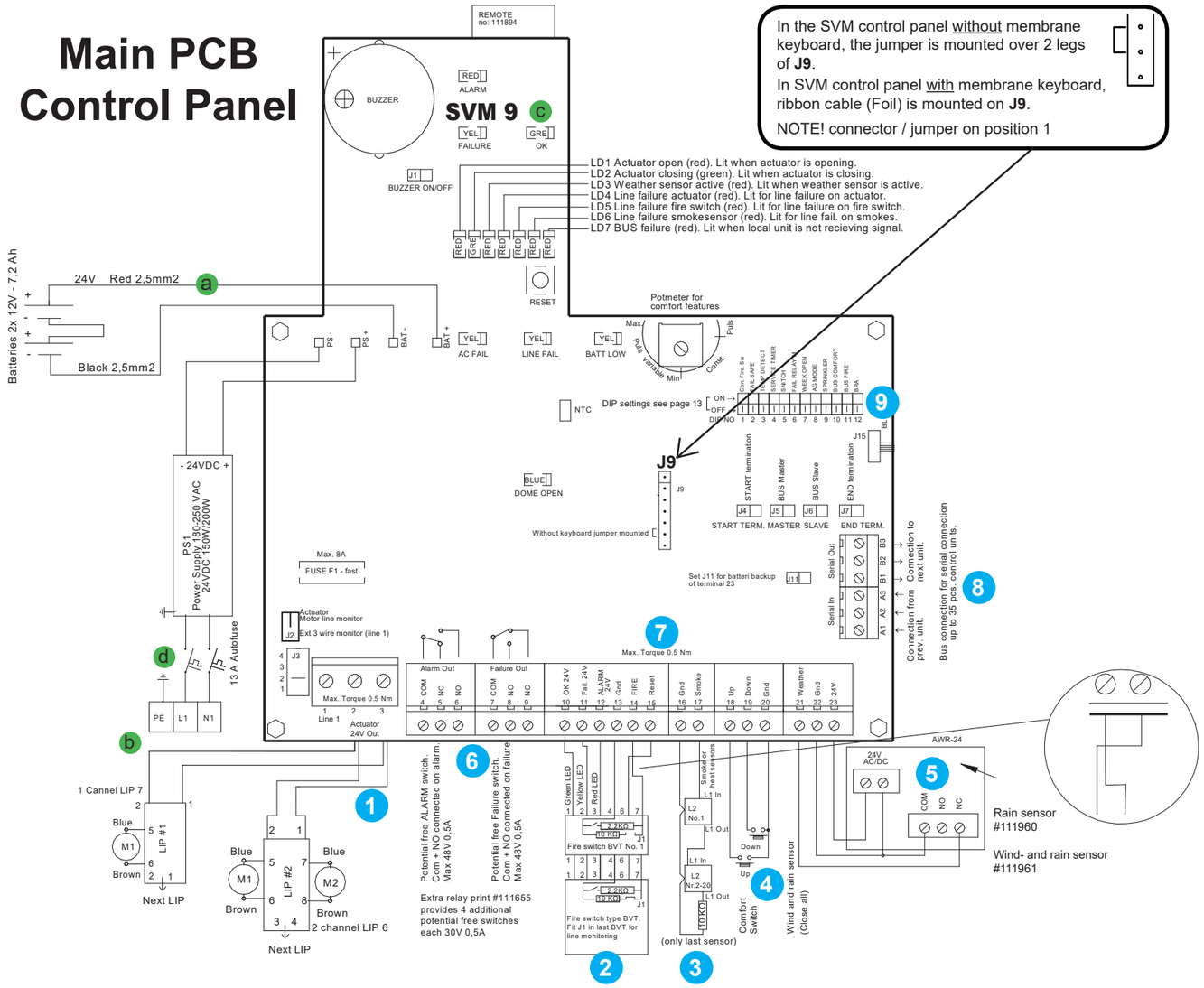
10. Optional equipment (examples)

- 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
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 Reset = Window close } Proper operation
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 Reset = Window close } Proper operation
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 to-gether with AC FAIL / BATT LOW / LD4 / LD5 / LD6 / LD7 (No sound)	- Snitch function (DIP5) is ON. (Reset = DIP5 OFF – ON)

Main PCB Control Panel



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