

**Start test:** **a** Connect spade crimp to battery    **c** Check the OK LED is lit  
**b** Connect 230VAC to circuit breaker    **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 Manual 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.)

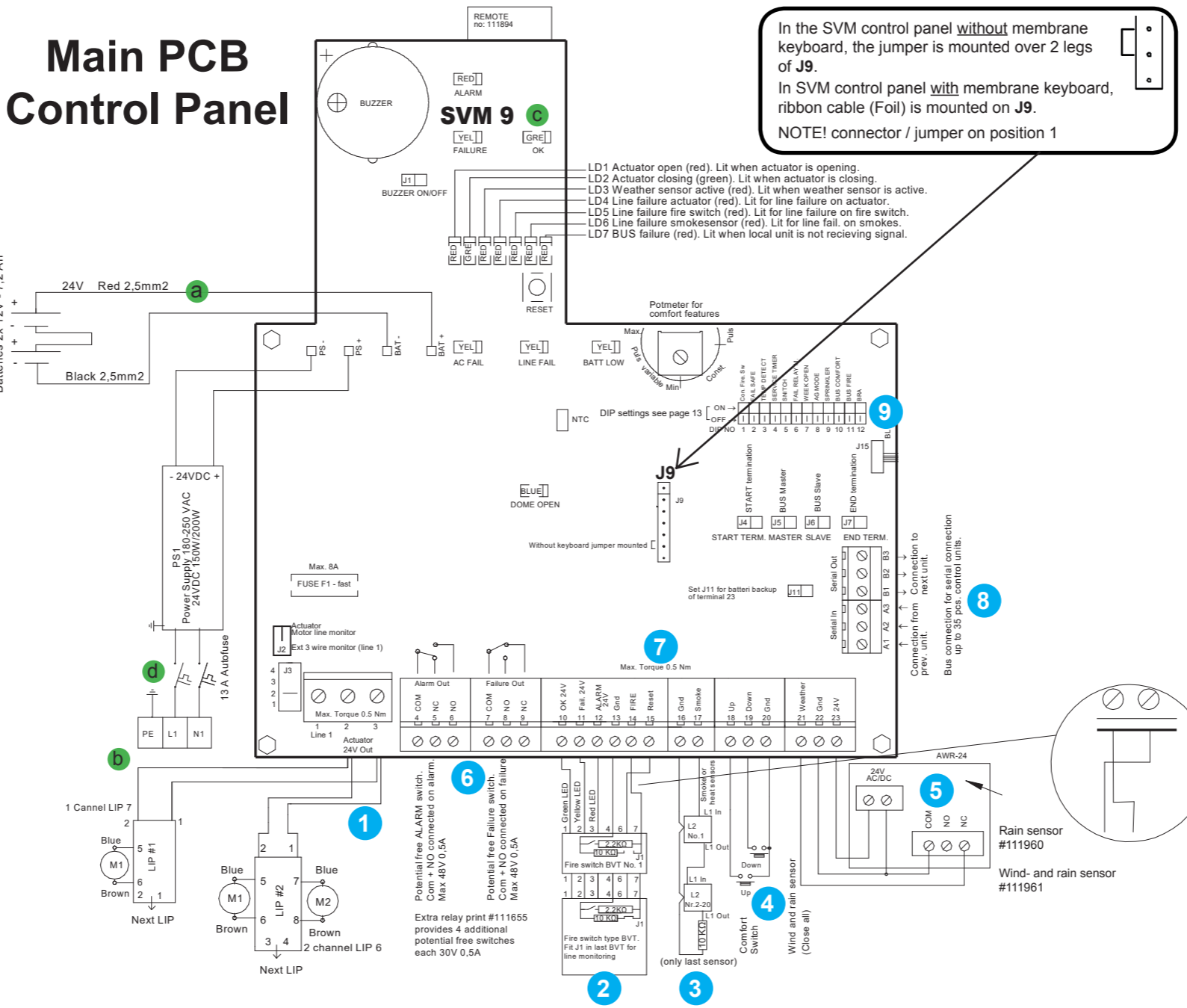
*For more information see page 9 (Installation Guide)*

- 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*

Problem	Possible causes
<b>LED 3</b> (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
<b>LED 4</b> (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
<b>LED 5</b> (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
<b>LED 6</b> (Line error detector) Lights	- Wires are not correctly connected in the detector - Detector not "clicked" (turned) correctly in the socket
<b>AC error</b>	- No 230VAC supply for control panel - 230V switch in control panel not turned on - Power supply under Main PCB is defect
<b>Line error</b>	- 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
<b>Opening system runs in reverse</b>	- Wires in terminal 2-3 are pole reversed Alarm = Window open } Proper operation Reset = Window close
<b>Control panel enters alarm mode immediately</b>	- Check connections to any fire switch/detector (mismounted) - Verify that connector leads in terminal 16-17 and 13-14 do not touch each other
<b>OK LED lights together with AC FAIL / BATT LOW / LD4 / LD5 / LD6 / LD7 (No sound)</b>	- Switch 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

**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*

**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*

**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*