Smoke Ventilation
Roof Windows

The Keylite Smoke Ventilation System is designed to open a Keylite Roof Window automatically, in the event of a fire.

Features

- **Complete Compliance** - The Keylite Smoke Ventilation System has been fully certified to EN12101-2 and is in compliance with European EN Norms.

- **Entire System** - All Keylite Smoke Ventilation Systems are provided with the following components as standard;
  - Motor(s)
  - Control Panel
  - Break Glass Unit
  - Smoke Detector
  - 3 Day Battery Back-Up

- **Geometric Smoke Ventilation Applications** – Keylite's Smoke Ventilation Systems are fully tested and certified to EN12101-2 and are compliant on roof pitches between 15-90°.

- **Aerodynamic Smoke Ventilation Applications** – The Keylite Smoke Ventilation System can be upgraded to comply with Aerodynamic Smoke Ventilation requirements by including the optional Wind Deflector in the kit. Note for Aerodynamic Smoke Ventilation Applications, Keylite's Smoke Ventilation Systems are fully tested and certified to EN12101-2 and are compliant on roof pitches between 15-50°.

- **Optimum Smoke Ventilation Area's** – In order to provide 1m² and 1.5m² of a Smoke Ventilation Area, Keylite recommends that a Smoke Ventilation Kit is added to a CP-08 (1140 x 1180mm) and a CP-10 (1340 x 1400mm) respectively. However if you are restricted for whatever reason, Keylite can also provide alternative kits that will suit your requirements.

- **Installation** – When a Smoke Ventilation Kit and Roof Window(s) are ordered together the Motor Brackets are fitted free of charge. When the window(s) are delivered to site it is simply a matter of mounting the Motor(s) and wiring up the electrical components independently. Wiring details are located on Page 2 of this document.

- **Flexibility** – The Keylite Smoke Ventilation System can be integrated seamlessly with a building's main fire alarm interface, or can operate independently as a stand-alone system.

- **Reliability** – All Keylite Smoke Ventilation Systems are provided with a three day battery back-up should the building's electrical system fail in the event of a fire occurring.

- **Functionality Inspections** – When the Keylite Smoke Ventilation System has been fully installed, a functionality inspection can be conducted by Keylite, upon request. For further information on this service, please contact the Keylite Technical Team.

Operation

- The Smoke Detector can be used to open the Roof Window automatically. This can also be achieved at the Break-Glass unit supplied.

- Alternatively an additional switch can be provided upon request for comfort ventilation control.

Guarantee

- **10 Years** - Keylite's hassle free guarantee on windows and flashings.

- **3 Years** - Keylite's hassle free guarantee on blinds, accessories and electrics.

Classification's according to EN 1201-2

- **Operational Reliability (Re)**
  Re1000 & 10,000

- **Snow Load (SL)**
  SL 1000

- **Low Temperature (T)**
  T (-15)

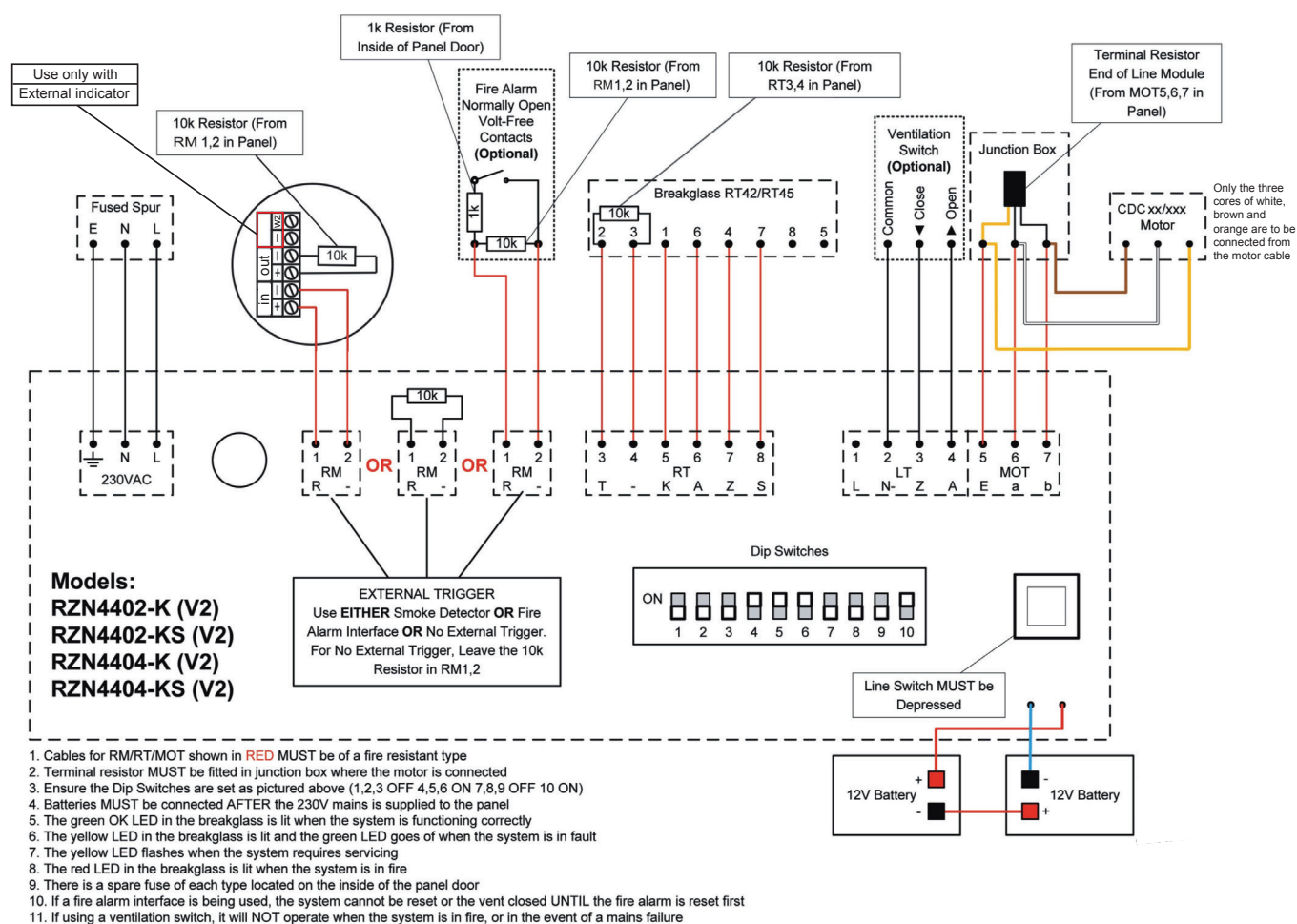- **Wind Load (WL)**
  WL 3000

- **Heat Exposure (B)**
  B 300

Smoke Ventilation Kit

Size Range & Smoke Ventilation Free Area's

Size Code Size (WxH)	08B 1140x980	08 1140x1180	09 1340x980	09C 1340x1180	10 1340x1400
Geometric Opening Area A_v in m^2	0.93	1.14	1.11	1.36	1.64
Aerodynamic Opening Area A_a in m^2 [1]	0.50	0.59	0.57	0.69	0.86

[1] = With Additional Wind Deflector (WD)

Electrical Wiring Details

Models:
RZN4402-K (V2)
RZN4402-KS (V2)
RZN4404-K (V2)
RZN4404-KS (V2)

EXTERNAL TRIGGER
Use EITHER Smoke Detector OR Fire Alarm Interface OR No External Trigger. For No External Trigger, Leave the 10k Resistor in RM1,2

1. Cables for RM/RT/MOT shown in RED MUST be of a fire resistant type
2. Terminal resistor MUST be fitted in junction box where the motor is connected
3. Ensure the Dip Switches are set as pictured above (1,2,3 OFF 4,5,6 ON 7,8,9 OFF 10 ON)
4. Batteries MUST be connected AFTER the 230V mains is supplied to the panel
5. The green OK LED in the breakglass is lit when the system is functioning correctly
6. The yellow LED in the breakglass is lit and the green LED goes of when the system is in fault
7. The yellow LED flashes when the system requires servicing
8. The red LED in the breakglass is lit when the system is in fire
9. There is a spare fuse of each type located on the inside of the panel door
10. If a fire alarm interface is being used, the system cannot be reset or the vent closed UNTIL the fire alarm is reset first
11. If using a ventilation switch, it will NOT operate when the system is in fire, or in the event of a mains failure

keyliteroofwindows.com