

## SPARK CONTROL PANEL PAN-705M

### for spark detector RIV-601P/S

The control panel PAN-705M is designed to operate and monitor all the functions of a complete spark detector system.

On front panel it displays the operating state of the spark detectors that control the extinguishing and the monitoring functions, the nozzle water flow switch, the STOP function and the power voltage.

**MEMORY function:** the alarm signaling LEDs of the detectors and of the flow switch "remember" the alarm occurred blinking until the manual reset (RESET). The MEMORY function can be deactivated / activated by single switches, one for each LED (5-way DIP switch on the front panel circuit).

Reverse polarity and overload/short circuit warning lights are also present.

In addition it carries the detector TEST pushbutton and the stop/memory RESET pushbutton (it turns off the alarm, switches off the signaling LEDs and restores the normal operating condition). It must be powered by a 24Vdc power supply.

It is protected against overload and short circuit by a fast press-to-reset thermal circuit breaker (1.5A – 36W).

It also contains the control relays for the alarm sounder, the solenoid valve, the STOP circuit (external relay to stop the fan and possible duct valve).

The solenoid valve is controlled by the extinguishing spark detectors.

The stopping of the fan and the closing of the duct valve are controlled by the monitoring spark detectors through the stop relay, which is held active until manually reset.

The alarm sounder is controlled by the extinguishing spark detectors, by the monitoring spark detectors and their stop function, and by the water flow switch.



### Specifications

Wall mounting using mounting holes provided.

Power line voltage 24Vdc

Internal power consumption 15mA normal, 100mA in alarm.

Max power consumption 36W – 1.5A

Press-to-reset protection against overload and short circuit.

Operating temperature -20 +50°C.

Electrical wiring on 22 way terminal block, plug-in type, 5 pitch, wire size 2.5mm<sup>2</sup> max.

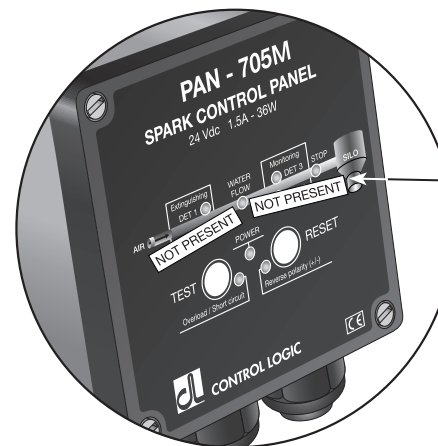
Cable entries by 2 M25 cable fittings, internal diameter 13-18mm.

Cast aluminium case IP66 protection (watertight NEMA 4).

Dimensions 180x140xH65 mm.

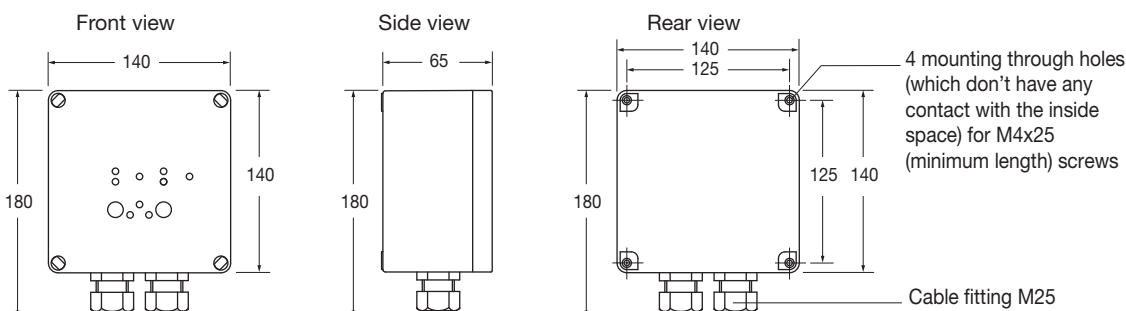
Packaging 240x180xH130 mm.

Weight 1kg.



In the packaging are included no 8. "NOT PRESENT" labels to put on the front panel to advise that one or more components are missing.

### Mechanical dimensions (mm)

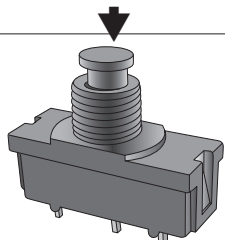


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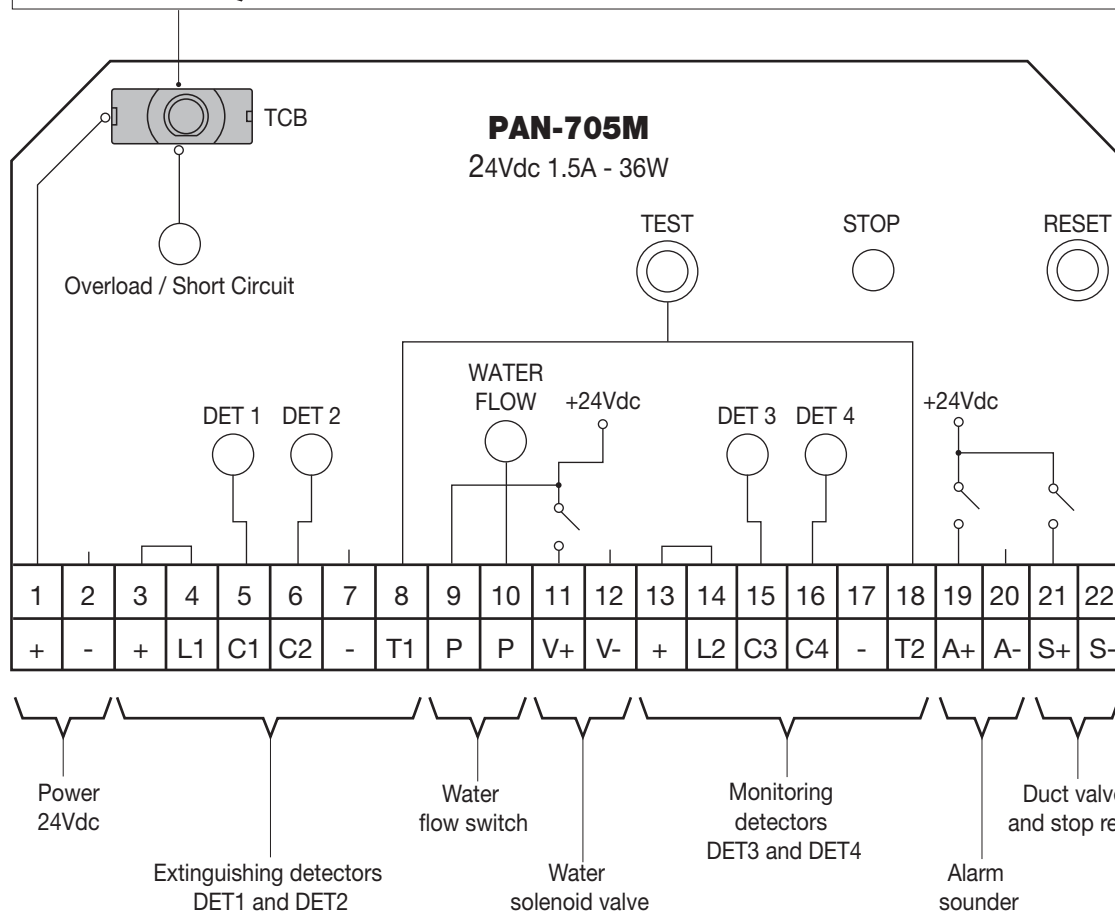
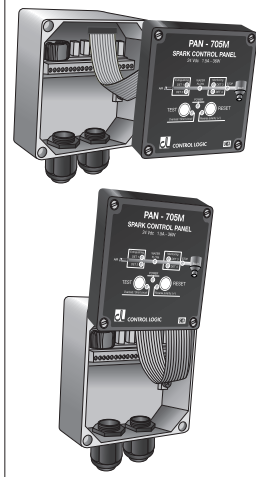
### Electrical diagram



#### 1.5A THERMAL CIRCUIT BREAKER (TCB)

In the event of overload or short circuit it automatically interrupts the current flow. Yellow LED on front panel lights up. Solve the problem and push the switch to resume normal operation.

The front panel should not be hung by the internal electrical connections. When you open the control panel it is suggested to place the front panel as represented by the pictures below.



Input and output voltage 24Vdc.  
 All wiring and grounding must be done in accordance with local and national rules and regulations.

**Notes:**

- It is highly recommended to connect the enclosure base to a good ground line using the ground terminal provided inside lower on the right. Then, connect base and cover using the ground terminal provided inside the base lower on the left and the ground terminal provided inside the cover lower on the right. All the ground terminals are signalled by ground label. The ground connection must be done using a yellow-green conductor and a M4 double crimp eyelet. The yellow-green conductor must be longer than the other conductors.
- In order to ensure an **IP66 protection grade** the cover must be tightly closed turning the four screws provided. The suggested closing torque value is 1 ÷ 1.5Nm.