

# T-Gen2

## Emergency Warning System - 100V Splitter Module



### Features

- 4 x 100V Speaker outputs with individual open/short circuit supervision
- Automatic disconnection of shorted outputs
- Suitable for T-Gen60 or T-Gen120 amplifiers
- MX1 Loop Card format
- Demountable screw connectors for all wiring
- Daisy-chain modules together for multiple outputs
- Compliant with AS 4428.16

The FP1118 100V Splitter module is designed for use with VIGILANT EWIS/BOWS/T-Gen tone generators. It splits the 100V speaker output into four 100V speaker circuits, each with its own supervision for open or short circuit faults. Dual branch wiring of each output is supported - requiring use of 100k EOL resistors on each branch rather than a single 56k EOL resistor. If a short circuit fault is detected on an output, the 100V Splitter module disconnects that output, allowing the others to continue working. No control of the outputs is otherwise possible. Each output can support up to 100W of load, with the combination of all 4 outputs up to 120W maximum. The 100V Splitter module indicates the fault condition via an on-board LED, showing the output(s) in fault and the type of fault(s) present.

### Specifications

Operating Voltage	19.2V to 28.8Vdc
Quiescent Current	15mA @ 24V
Fault State Current <sup>1</sup>	40mA @ 24V
100V EOL Resistor	56k Ohm (1 branch) 100k Ohm (2 branches)
100V load/output	100W
100V load (all 4 outputs)	120W
Relay Contact Rating	2A @ 24Vdc
Fault on 100V in	25k Ohm
Ambient Temperature	-5°C to +45°C
Relative Humidity	10% to 95% (non cond.)
<i>Indoor Applications Only</i>	
Dimensions (HWD)	142 x 104 x 40 mm
Wire Size (maximum)	2.5sq. mm
ActivFire Listed	afp-3315
FPANZ Listed	VF/427

### Part Numbers

FP1118	100V Splitter Module
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1. All 4 outputs in short circuit fault.

When a fault condition occurs, the normally energised change-over fault relay drops out, and a 25k resistance is superimposed on the incoming 100V signal for the source tone generator to detect the fault. To provide more than 4 protected outputs, multiple 100V Splitter modules can be daisy-chained together using the 100V in/out terminals, and fitting a suitable end-of-line resistor at the open end. User protection against electrical shock is provided by mechanical covers and internally facing screw terminals. The 100V Splitter module includes all the cabling to wire to a T-Gen60 or T-Gen120 and the hardware to mount in an MX1 fire panel or T-Gen2 8U/15U BOWS/EWS cabinet. The 100V Splitter module can be mounted in a SIMPLEX 4100ESi fire panel using an FP1120 100V module mounting bracket. Refer to installation instructions LT0670 for details.

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