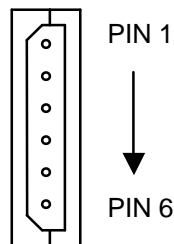


### OPTION E, EV, F, FV, EW, FW

The Analogue primary option is a factory fitted option board which provides the following functions:

- 1) Warning the AC input has been lost or that the converter has overheated.
- 2) Global inhibit / enable (Global meaning the option inhibits/enables all modules or outputs at the same time).
- 3) Auxiliary supply (fixed 5V for E, EV, F, FV variants or a voltage in the range 5~15V for EW & FW variants) which is present when AC is applied to the PSU regardless of the inhibit/enable status.

Refer to Lambda document 62308 for specifications of the Primary Options.  
The Option board occupies a position to the left of slot 5 as shown:



#### Mating connector information:

Note: housing and pins supplied with each power supply.

Molex housing 50-37-5063  
Molex crimp pins 08-70-1039  
Molex hand crimp tool 11-26-0167 (Japan)  
Or 11-01-0194 (Europe or USA)

Pin No.	Function
1	AC fail and over temperature warning, C
2	AC fail and over temperature warning, E
3	0V of auxiliary supply and 0V "reference" or "return" for global inhibit / enable.
4	Auxiliary supply +ve
5	Global inhibit/enable logic "0" input
6	Global inhibit/enable logic "1" input

### INHIBIT OR ENABLE.

One of two options are available (**required option must be specified at time of ordering**) : Inhibit or Enable.  
Both are TTL compatible.  
They are physically the same but with different functionality.

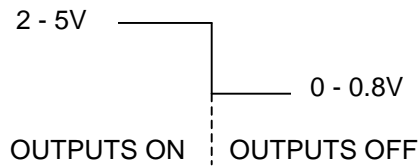
<b>Option specified = "INHIBIT"</b> All outputs normally "ON" (even if not connected)	PIN 5 taken to 0V-0.8V will turn outputs OFF.	PIN 6 to be taken to 2-5V will turn outputs OFF.
<b>Option specified = "ENABLE"</b> All outputs normally "OFF" (even if not connected)	PIN 5 taken to 0V-0.8V will turn outputs ON.	PIN 6 to be taken 2-5V will turn outputs ON.

All voltages are with respect to auxiliary 0Volts (PIN3 ). Both Pin 5 and Pin 6 will draw almost no current being the input to a comparator with suitable hysteresis.

### Global Inhibit Logic 0

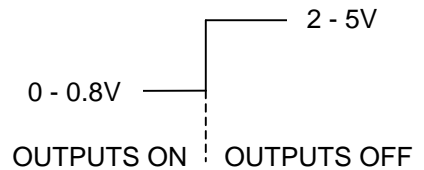
Pin 5 to be taken to 0-0.8V to turn outputs off, otherwise outputs normally on

Either 'INHIBIT'



### Global Inhibit Logic 1

Pin 6 to be taken to 2 – 5V to turn outputs off, otherwise outputs normally on



### Global Enable Logic 0

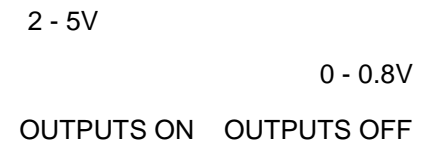
Pin 5 to be taken to 0 – 0.8V to turn outputs on, otherwise outputs normally off

Or 'ENABLE'



### Global Enable Logic 1

Pin 6 to be taken to 2 – 5V to turn outputs on, otherwise outputs normally off

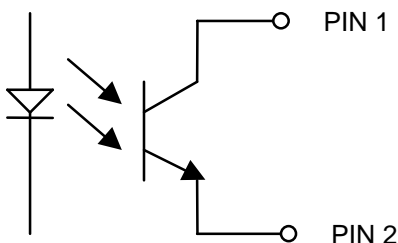


### Auxiliary supply.

This is available for powering auxiliary circuits and is present when AC input is applied regardless of inhibit/enable state of the PSU outputs. The output is rated as SELV.

Output voltage	Fixed 5V +/- 5% (Option E, EV, F, FV) or 5~15V (Option EW, FW)
Max continuous output current	100 mA (Option E, F) or 300mA (Option EV, FV) or 1A (Option EW, FW)
Overload protection	Current limited and thermally protected
Hold up time	1 Sec minimum
Isolation to earth	500V DC max

### AC FAIL

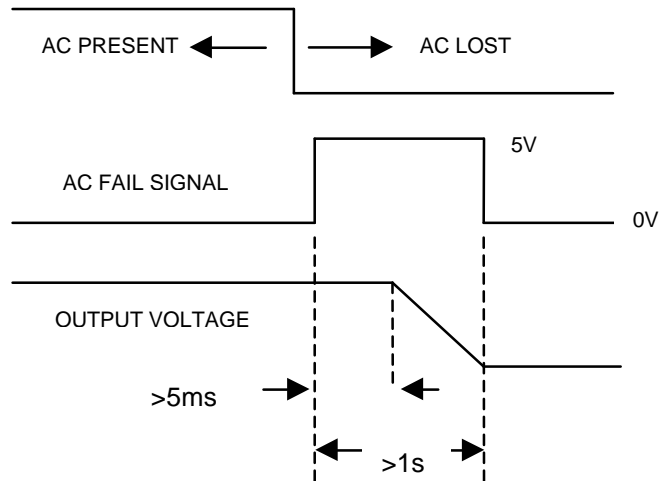
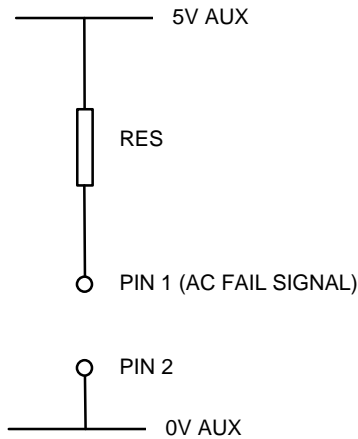


This provides an opto-isolated output which provides a minimum of 5mS warning before loss of output power due to either loss of AC input or over temperature of the converter.

Ic max	5mA
Vce max	30V
Warning time to DC output fall	5mS min (see timing diagrams below)
Vce saturated	Less than 0.4V

The signal can be configured in two ways:

**Either:**



**Or:**

