

## 2 STEREO INPUT PROGRAM FAIL DETECTOR



The RPF-02 Program Fail Detector is a versatile unit suitable for use at studio and transmitter sites as a general program fail detector, automatic line changeover and emergency program controller.

It is provided with 2 Stereo or 4 mono independent audio program fail detector channels. The RPF-02 also features built in automatic stereo line changeover facilities, emergency program start, switched mains to the emergency device and line switching. This makes the RPF-02 extremely practical and of potential use in many applications.

Front panel LED's are provided as activity indicators for each input channel, illuminating when program audio is present, on program failure after the pre-set failure time delay has run and to indicate the output status.

All program fail detector channels have an alarm timeout or delay setting and can be set in 1 second steps, from 1 second to 256 seconds.

Program fail recovery time is adjustable in 2 second steps from 2 seconds to 128 seconds, to cater for intermittent short term recovery such as the rain fade effect commonly experienced with satellite links.

Each input channel operates independently, with alarm timeout or delay starting when valid audio program disappears on its input.

Alarm level sensitivity is pre-set and independent for each input via moveable links to 5 levels, 0 dBu, -10 dBu, -20 dBu, -30 dBu and -40 dBu.

A Common Alarm Relay is provided giving a common alarm whenever one of the 4 input channels has failed. Individual output status on open collector outputs.

A push button switch with LED status indicators is provided to switch the Common Alarm off when required.

Apart from the 4 program fail detector channels, the RPF-02 is provided with built in relays for stereo line changeover, emergency program insertion, emergency program start and AC power switching for the emergency program source making the RPF-02 extremely practical and of potential use in many applications.

A unique feature is the ability to power and run the emergency program source for tests by external control without switching the emergency program to line.

A mono link is provided to sum left and right emergency program to mono making the RPF-02 suitable in mono AM systems.

AC mains power inlet is a standard fused IEC chassis mounted male connector.

Switched AC mains power for the emergency program source equipment is via a standard chassis mounted IEC female connector.

## FEATURES SUMMARY

2 Stereo/4 Mono Program Fail Detector Channels

2 Stereo Changeover Channels

Relay Alarm Outputs

Adjustable Settings for Fail Delay Time, Audio Sensitivity and Recovery Time

Line Changeover Relays

Emergency Program AC Power Relay

Emergency Program Insertion

## APPLICATIONS

4 Channel Mono or 2 Channel Stereo Program Fail Detector

Automatic Line Changeover and Emergency Program Insertion System

Use at Studio site as a general Program Fail Detector

Use at Transmitter site as an Automatic Line Changeover and Emergency Program Controller

## SPECIFICATIONS

Program Line Inputs:           Balanced +4dBu, XLR Female

Emergency Program Input:    Balanced +4dBu, XLR Female  
  Un-balanced -10dBu, DB9

Emergency Program Output:   Balanced +4dBu, XLR Male

Alarm Relays:                    DB25

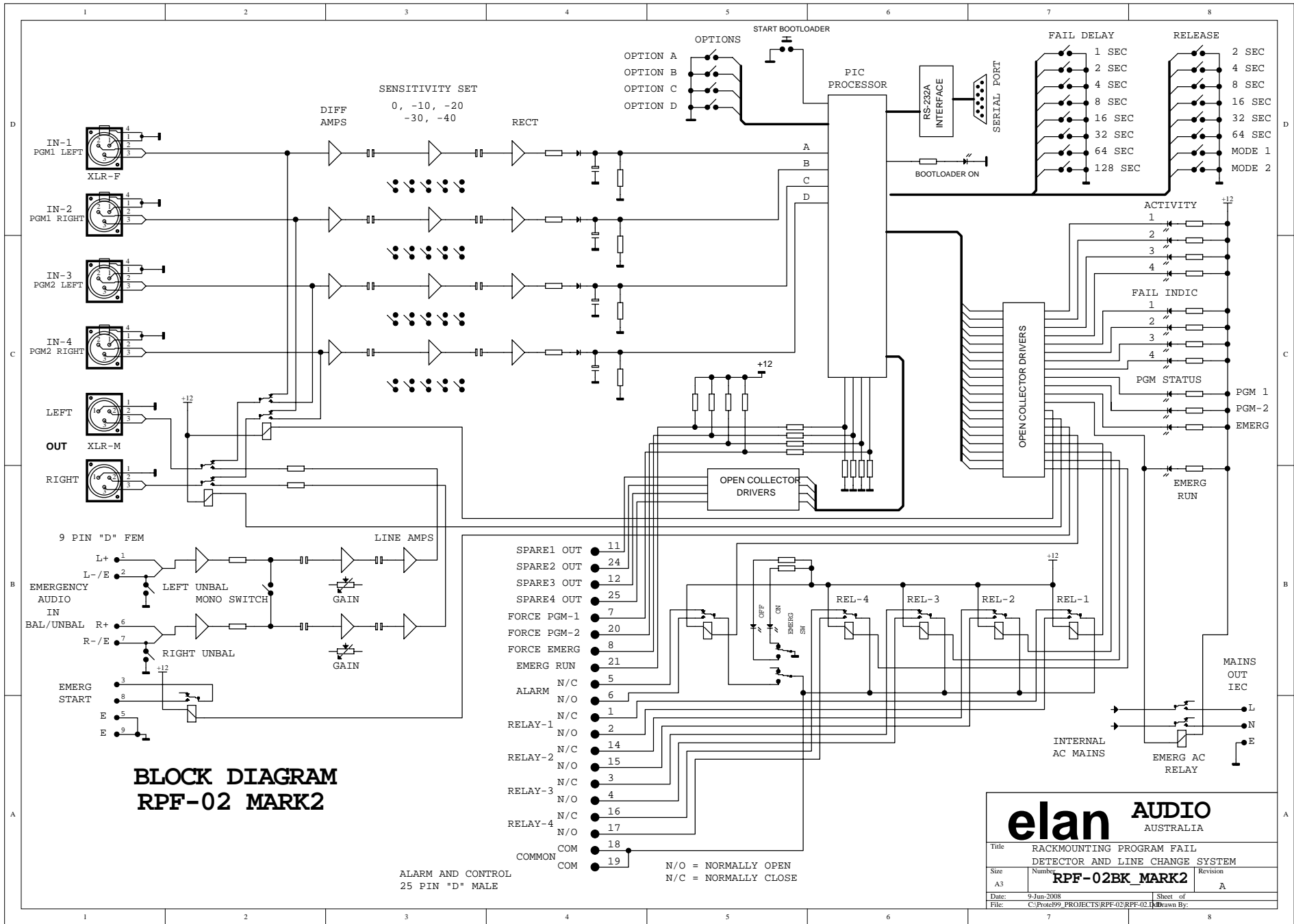
Remote Controls:                DB9

Rack Size:                        1RU

Power:                            240V AC



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**BLOCK DIAGRAM  
RPF-02 MARK2**

ALARM AND CONTROL  
25 PIN "D" MALE

- SPARE1 OUT ● 11
- SPARE2 OUT ● 24
- SPARE3 OUT ● 12
- SPARE4 OUT ● 25
- FORCE PGM-1 ● 7
- FORCE PGM-2 ● 20
- FORCE EMERG ● 8
- EMERG RUN ● 21
- N/C ● 5
- ALARM N/O ● 6
- N/C ● 1
- RELAY-1 N/O ● 2
- N/C ● 14
- RELAY-2 N/O ● 15
- N/C ● 3
- RELAY-3 N/O ● 4
- N/C ● 16
- RELAY-4 N/O ● 17
- N/O ● 18
- COMMON ● 19

N/O = NORMALLY OPEN  
N/C = NORMALLY CLOSE

**elan AUDIO**  
AUSTRALIA

Title: RACKMOUNTING PROGRAM FAIL DETECTOR AND LINE CHANGE SYSTEM

Size: A3    Number: **RPF-02BK\_MARK2**    Revision: A

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