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## Fuse Auto Changeover System

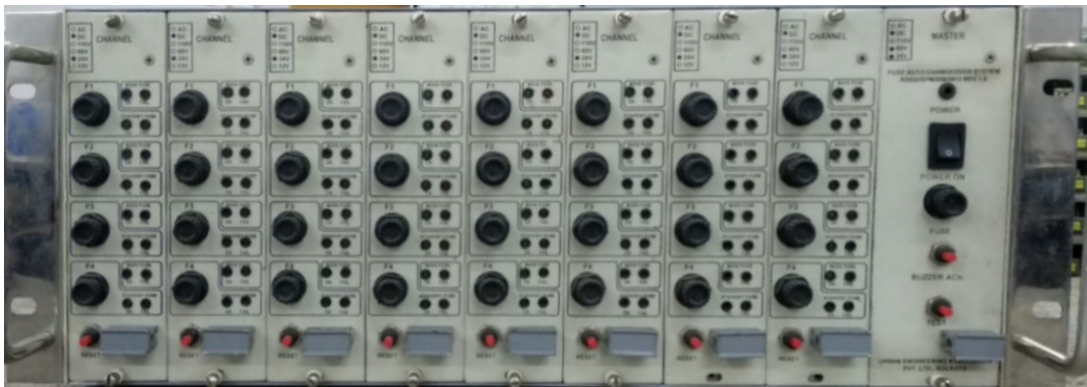
(for 32 fuses of 0.6Amp to 4.0Amp of any voltage 12V/24V/60V/110V AC/DC)

### The System:

The system is developed to continuously monitors health of various fuses provided in Railway Signaling Installations and in addition to the said monitoring it also automatically changes over the supply to 'Standby Fuse' on failure of 'Main Fuse'. The whole system simultaneously monitors the status of 'Main' and 'Standby' fuse and also provides audio and visual alarm on failure of any fuse. The system can detect up to 32 numbers of fuses used in the circuits of 12V, 24V, 60V, 110V DC and 110V AC.

### Mechanical construction:

Each module is designed to monitor up to a maximum number of 32 fuses and the module is suitable to be mounted directly on the Relay Racks. The overall dimension (L x B x H) = 483 x 165 x 178mm (19" - 4U)



### Front Panel:

- 32 Standby Fuses
- LED based Fuse Status Indicators
- Reset Push Button
- Power ON/OFF Switch
- Power ON Indication
- Power Input fuse
- Dual Tone Buzzer (mounted inside)
- Buzzer Ack. Push Button
- Test Push Button

### Back Panel:

On back panel, terminals have been provided to terminate the incoming wires for multiple power supply connections and input power. Six numbers of potential free contacts are provided for remote 'Common Audio Visual Alarm' or any other utility.

### Features Available:

- Indication towards the health of 'Main' as well as 'Standby' fuse.
- The Green LED indicates corresponding healthy fuse and Red LED indicates corresponding failed fuse.
- When the 'Main' fuse fails, the system changes over to 'Standby' fuse automatically.
- To check whether all indications are working – press 'Test' Push Button.
- The Audio alarm can be acknowledged by 'Buzzer Ack.' Push Button.
- To reset the individual channel card – press 'Reset' Push Button of the channel.
- Remote audio/visual indication is available through four nos. of potential free contacts, two nos. are for 'Main' fuses and other two nos. are for 'Standby' fuses.
- Two nos. of potential free contacts are provided for SMS transmission through GSM module, on the event of main and standby fuse blowing or replacement.
- Drainage of current from the monitoring line is less than 3mA per line.
- The system operates with N + 2 wires.
- The monitoring circuit is isolated from the main working circuit.
- The mains power section is common to all the channels. The audio section is also common for all the channels.
- The system is designed only as a supervisory circuit. On the event of any component failure within the FACS, it will not interrupt the supply to load by any means.
- An audio/visual alarm indication every individual failure.
- 32 Nos. of 5X20mm as per IEC 127; fuses of 0.6 to 4.0A of any voltage (12V, 24V, 60V, 110V DC and 110VAC) can be monitored by the system.
- Within the same unit, flexibility is provided to monitor fuses used in different circuit voltages.
- It is designed to be operated by 24VDC, 60VDC, 110VDC/VAC.