

FUSE AUTO CHANGOVER SYSTEM (FACS)

(As per RDSO Specification No. RDSO/SPN/209/2012 Rev 1.0)

Fuse Auto Changeover Systems continuously monitor various fuses provided in Railway Signaling Installations. The System not only monitors the fuses, but also changeover to a Spare Fuse (provided within the system) automatically on failure of the Main Fuse. The system simultaneously monitors the status of both the Main and the Spare fuse and provides audio / visual alarm on failure of any fuse.



Types of FACS Module

Type I - Module Consist of 32 fuses of 0.6 Amp, 1.6 Amp, 4 Amp (G Type Fuse)

Type II - Module Consist of 24 fuses of 4 Amp to 10 Amp (G Type Fuse)

Components

Front Panel Components on Power card Module

- Buzzer
- Power ON indication (LED Based)
- Input Power fuse
- Test reset Push Button
- Buzzer ACKNOWLEDGE push button

Front Panel Components on Each Monitoring Card

- Standby Fuses
- Red & Green LEDs for indicating status of MAIN & SPARE fuses
- RESET Push Button

All terminations are provided on rear side

Main Features

INTEGRA make FACS has been designed to meet the requirement of Railway Signaling Safety.

- The module has arrangement for fuses of 4U spaces vertically in a standard 19 inch rack
- System operates with N+2 wires
- Continuously monitoring the status of both Main and Spare fuse
- Automatically changeover to a Spare Fuse on failure of the Main Fuse in less than 20 msec
- Current drain from the main system is very low
- Provides audio/visual alarm on failure of any fuse
- Push button to test whether all indications are working
- The audio alarm is resettable by push button
- Operating Voltage: 24VDC or 60VDC or 110V AC
- Fuses confirming IEC-127
- Each PCB coated with Acrylic coating which prevents components from moisture

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Optional Accessories

- Common Audio Visual Alarm Unit (CAVA)
- GSM Modem (8 channel)



Detail required from Customer while placing order:

- Operating Voltage of the system
- Voltage Rating of Fuses
- Current Rating of Fuses

References :

⇒ **INTEGRA FACS has been supplied for various station as depicted below :**

- Igatpuri, Pandhurna and Betul Station of Central Railway
- Surgaon Banjari Station of West Central Railway
- Praratapnagar Station of Western Railway
- 21 Station of North Western Railway
- 12 Station of Northeast Frontier Railway
- Agra City Station of North Central Railway

* Due to continuous improvement; product design & specifications may change subject to RDSO Directive