COMPLETE RAIL SOLUTIONS

Australian Rail Technology

Australian Rail Technology has experienced designers in the field of vigilance systems.

Using highly reliable state machines based on CPLD (Complex Programmable Logic Device), not software and microprocessors, we have the capability to provide custom designs for:

- New vigilance systems – ARTs Drivers Vigilance Device (DVD)

- Replace/Retro fit existing systems – such as the Fischer Industries Mk6, Mk8, Mk10 and Mk12 Vigilance Control Unit.

- Secondary Intervention Device – 'Bolt on' to sit over an existing vigilance

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About

Our combined knowledge means our engineers have designed more vigilance systems than anyone else in Australia. These include around a thousand units still in service on the;

- Intercity/Suburban/Tangara & Millennium Electric fleet in NSW,

- Hunter Rail Cars in NSW,

- Prospector cars in WA and

- Various Locos used by major operators around Australia.

Options

Inputs:
- Tasked linked
- Optically isolated digital Inputs up to 16
- Analogue inputs (voltage or current)
- PWM
- Frequency Input

Preset Time intervals:
- Random time stages
- Fixed time stages
- Each stage can be custom set

No Maintenance

Outputs:
- Optically isolated digital Output up to 8
- Open Collector
- Voltage free C/O contacts
- Warnings—Light & Bell/Buzzer
- Penalty Brake application

Mounting options:
- 19" sub rack
- Custom enclosure
- IP ratings

Drivers prep mode:
- Drivers can quick and easily check all tasked linked features are functioning

Typical Interfaces:

Tasked linked inputs;

- Optically isolated digitals—Town/Country horn, Power/Brake demand, Vigi push Button, Headlights, BCP, Drivers Key etc

- Analogue Inputs (Voltage or current)

- Manifolds for Braking—BPP, MR, BCP 1 & 2, Horn—Town & Country

- Pressure switches and pressure transducers

- Frequency input—speed

Optically isolated outputs:

- Vigilance acknowledge button, Warning light, Audible device

- Penalty Brake application solenoid

- Voltage free C/O contacts

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