



BR901
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Specification for Flasher Unit for Level Crossing Road Signals

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Amendments

Amd. No.	Date	Text Affected

British Railways Board

B.R. SPECIFICATION NO.901FORFLASHER UNIT FOR LEVEL CROSSING ROAD SIGNALS.1. GENERAL.

This unit is intended for use at Barrier Level Crossings where a number of flashing road signals are provided. The road signal includes two lamps side by side which flash in antiphase. The flasher unit shall therefore supply two outputs, one to each phase of the flashing road signal.

The failure modes of the unit shall be such that failure to flash will result in at least 50% of the lamps giving a steady light. Failure of all lamps on one output shall not affect the flashing rate of the other output.

2. METHOD OF OPERATION.

The flasher unit shall be electronic, a flashing signal being formed by a pulse generator and the output shall be via thyristors, power transistors or similar devices, switches by the pulse generator.

3. POWER SUPPLIES.

The unit shall operate from a battery consisting of 20 nickel cadmium cells on trickle charge from an unsmoothed battery charger. The working voltage range shall be 22 volts - 29 volts.

4. TEMPERATURE RANGE.

The unit shall be suitable for use in an ambient temperature ranging from -20°C to $+60^{\circ}\text{C}$.

5. OUTPUT.

The unit shall be capable of providing two outputs each of 15 amps, $24 \pm 20\%$ volts to two loads, each consisting of eight 36 watt Tungsten filament lamps.

The two outputs shall flash at a rate of 80 ± 10 flashes per minute each, the outputs shall be in anti-phase and the flashes shall be of equal length.