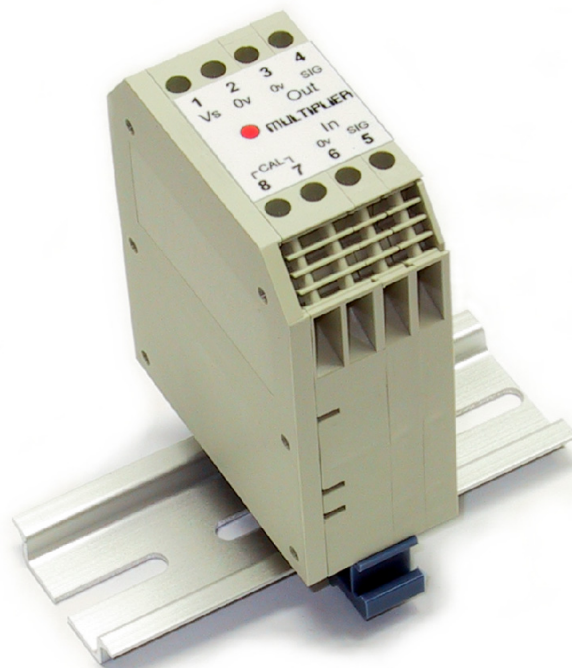


Electronic Pulse Multiplier

*Electronic Control
Equipment for the
Roadmarking Industry*



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SYSTEMS LTD (2007)

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For a vehicle with an electronic speedo which cannot use a cable driven encoder and requires a fit and forget solution.

Increases the speedo output from about one pulse per 100mm to one pulse every 10mm of ground travel.

DIN rail mount polyamide enclosure 90x60x28mm.

Specifications overleaf.



Model: EMV1

▶ **Power Supply:**

Voltage:

6 to 34V DC with reverse polarity and varistor protection.

Current:

22mA at 24V DC.

▶ **Electrical Isolation:**

1000 volts isolation between the gearbox pulse generator and the multiplied output pulse. (to the roadmark controller)

The gearbox input is powered by a 5V DC to DC converter.

Isolation is provided to prevent any solenoid inductive spikes from directly interfering with the vehicle instrumentation.

The roadmark controller which is powered by a direct connection to the vehicle battery will suppress these spikes.

▶ **EMC Protection:**

Three terminal RF filters are fitted to the power supply input and to the connection to the gearbox pulse generator.

▶ **Gearbox pulse generator Interface:**

5V maximum output voltage.

5mA sink to Ground (0V) to operate.

75V maximum input voltage.

Schmitt trigger signal conditioning.

Two wire connection: Signal plus Ground from pulse generator.

▶ **Multiplied Output Pulse Interface:**

Open collector output with 1K pullup to 5V.

56R 1W sink impedance.

▶ **Pulse Multiplication:**

Defaults to 10x multiplication.

May be adjusted by CAL input operation and moving the vehicle varied distances. See operator instructions.

▶ **Operation Indication:**

A three colour LED indicates normal, error and calibration modes.

See operator instructions.

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