

CAN Newsletter Online

FOR UP TO 2 KM

Fiber-optic converter for CAN

S.I. Tech (USA) produces a component that converts electrical CAN signals to optical signals. The maximum speed on the electrical side is 1 Mbit/s.



The signal converter is DIN-rail mountable (Source: S.I. Tech)

Use of fiber-optic converters allows for electrical isolation between the attached devices, protecting them from electrical surges and providing EMI/RFI (electromagnetic interference/radio frequency interference) immunity. Use of fiber-optic lines also allows for longer distances between nodes. The units enable a distance capability of up to 2 km (multi-mode) and up to 10 km (single-mode). CAN bit rates from 125 kbit/s to 1 Mbit/s are supported. For the electrical part 120 Ω termination is used at both ends of the network.

The metal-enclosure device measures 10 cm x 9 cm x 2,5 cm and is designed for DIN-rail mounting. Status indicators are available for the Tx, the Rx, and the power signals. Operating temperature range from 0 °C to +70 °C can be optionally extended. Versions for external power supply of 24 V_{DC}, 110 V_{AC}, and 230 V_{AC} are offered.

S.I. Tech develops and markets fiber optics systems. The company founder formerly managed Belden Corporation's venture development in fiber optic systems including fiber optic cables, transmitters, receivers, modems, multiplexers, and link developments. S.I. Tech acquired the fiber optic systems division of Belden Corporation in 1984. In 1988 the fiber optic multiplexer division of Honeywell was acquired, too.

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