Isolated In-line Serial Converters
Models 4WSD9OTB, 4WSD25OTB

Models 4WSD9OTB and 4WSD25OTB convert RS-232 to RS-422 or RS-485 (2 or 4-wire), 2,000V two-way optical isolation protects devices from power surges, spikes and ground loops in harsh electrical environments.

These in-line converters support distances up to 1,200 m (4000 ft.) and data rates up to 115.2 kbps. Switchable modes support 2-wire RS-485, 4-wire RS-485, and full duplex RS-422. Available with female DB9 or DB25 RS-232 inputs.

Removable terminal blocks for RS-422/485 and external power make wiring easy. Accepts external power from 10-48 VDC from an industrial power source or plug in power supply. The power supply is sold separately.

PRODUCT FEATURES
- Modbus compatible serial conversion
- Removable terminal blocks for RS-422/485
- 2,000V two-way optical isolation
- Automatic Send Data Control - no software drivers necessary

ACCESSORIES
SM16-12-V-ST - Power Supply, 12 VDC 6 Watt, 2.5MM Plug, International AC Input, International AC Blades
TBKT4 - 5 position 3.5MM Replacement Terminal Block
9PAMF6 - 6 ft. (1.8 m) DB9 Male to DB9 Female Cable
232AMF5 - 6 ft (1.8m) DB25 Male to DB25 Female Cable

SPECIFICATIONS

SERIAL TECHNOLOGY
- Data Rate: 115.2 kbps maximum
- LED Indicators: TD and RD
  - Connectors: 4WSD9OTB: DB9 female, 4WSD25OTB: DB25 female
  - Signals: TD, RD, GND
RS-422/485
  - Connector: 4WSD9OTB: Terminal block, removable
  - Connectors: 4WSD25OTB: Terminal block, removable
  - Signals: RS-485, 2-wire Data A(-), Data B (+), GND
  - RS-422/485, 4-wire TDA(-), TDB(+), RDA (-), RDB(+), GND

POWER
- Input Required: 10-48 VDC
- Current Draw: 28 mA at 12 VDC (typical)

MECHANICAL
- Dimensions, 4WSD9OTB: 9.8 x 4.3 x 2.3 cm (3.9 x 1.7 x 0.9 in)
- Dimensions, 4WSD25OTB: 9.8 x 5.5 x 2.3 cm (3.9 x 2.2 x 0.9 in)
- MTBF: 179604
- MTBF Calculation Method: MIL 217F Parts Count Reliability Prediction

ENVIRONMENTAL
- Operating Temperature: 0 to +70 °C (+32 to +158 °F)
- Storage Temperature: -40 to +85 °C (-40 to +185 °F)

APPROVALS / CERTIFICATIONS - 4WSD9OTB, 4WSD25OTB
- 2011/65/EU Reduction of Hazardous Substances Directive
- EN 55022: +AC Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
- EN 61000-1-1 Generic Standards for Residential, Commercial and Light-Industrial Environments
- EN61000-4-2 ESD Immunity
- EN61000-4-3: +A1 +A2 Radiated Immunity
- EN61000-4-4 EFT/Burst immunity
- EN61000-4-6 RF Conducted Immunity

All product specifications are subject to change without notice.
4WSD9OTB & 4WSD25OTB_2916ds