

Model: rdc232fos

RS-232 to Fiber Optics Converter(Single Mode)

The rdc232fos safely and easily connects your panel mounted RS-232 devices to fiber optic cables up to 11 km long, providing the ultimate in isolation, surge, and noise protection. Even the RS-232 port is galvanically isolated from the DC supply ground. ST connector, plus the quality Hewlett Packard components used are guaranteed to work with 9/125 μ m fiber sizes.

Isolation, industrial design, small size, DIN rail mount, user indication, and wide range DC supply make the rdc232fos a very engineer-friendly device for your industrial data communication system.

Specification

Fiber Optic

- Connector : ST (bayonet)
- Fiber Size : 9/125 μ m
- Insertion Loss : 0.2dB typically
- Technology : 1310 nm wavelength, ELED
- Power : typically -17dBm into 9/125 μ m fiber

RS-232

- Signal Type : EIA/RS-232E
- Voltage Level : +/- 9 vDC
- Permitted Surge : +/- 25 vDC

Isolation

- RS-232 to fiber : complete galvanic isolation
- Supply to fiber : complete galvanic isolation
- Supply to RS-232 : 1-port = none ; 2-port = 2.5Kv

Power Supply

- 9v to 36vAC or DC : 0.75w normal operation (1.5w test mode)
- 5v DC +/- 5% : 50mA normal operation (125mA test mode)
- User Indications : Green LED for each isolated supply

Communication

- Max Speed : at least 115Kbps at standard distances
- Character Setting : transparent, no configuration required
- User Indications : Txd and Rxd have LED (yellow) indications
- Practical Distance : less than 50m for RS-232, 11km for fiber (requires quality, low-cap cable < 50 pF/m)

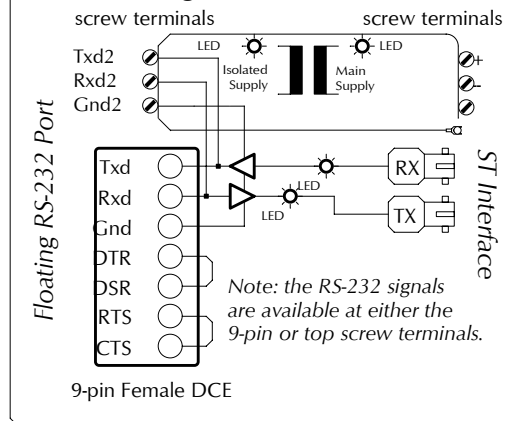
Mechanical / Environment

- Operating Range : 0C to +65C
- Storage Range : -40C to +100C
- Relative Humidity : 10 to 90% RH, non-condensing
- Terminals : wire up to 2.5mm (12 AWG)
- D-shell connector : 9-pin, 30 μ gold pins/sockets rated 500 cycles
- Case Material : nylon polyimide, fungus and termite resistant self-extinguishing
- Weight : approx 130g
- Mounting Rail : DIN EN 50 022 or DIN EN 50 035

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Specifications subject to change without notice.

Block Diagram



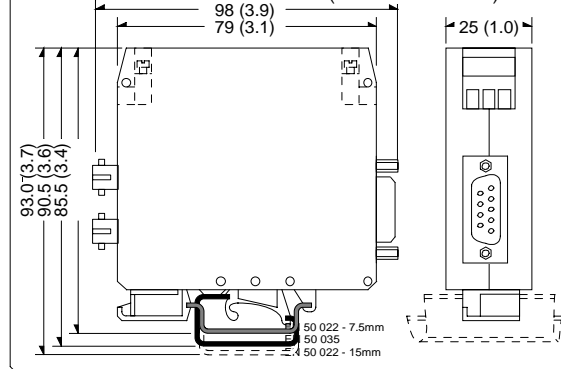
Order Information

- rdc232fos- - -
- st** Connector Configuration ST bayonet connector (® of AT&T)
 - 2p** Galvanic Isolation Configuration 1Kv isolation between RS-232 & supply
 - 1p** non-isolated, RS-232 SGnd = supply V-
 - dv** Power Supply Configuration 9v to 36v Unregulated DC Supply
 - hv** 48v +/- 20% Regulated DC Supply
 - av** 9v to 36v Unregulated AC Supply
 - 5v** 5v +/- 5% Regulated DC Supply
- bold box shows factory default options**

Option non-isolated (-1p) is only available with a regulated 5v power supply (-5v)

Testing - the top screw-terminal Rxd can also be used to easily test your fiber optics link. Connecting a +5 to +15vdc signal will force the fiber transmitter on, so you can easily see the light at the remote end - even with the naked eye. For example, 9v radio battery could be used to provide this test signal.

Dimensions in mm (and inches)



www.robustdc.com

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