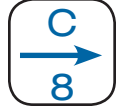


8-channel contact closure transmitter and receiver



Description

The ComNet™ FDC8 Series contact closure transmitter and receiver provides transmission of up to eight independent contact closures over one RS232 link or optical fiber. Microprocessor-based logic sends the contact information in packets that are ordered and encoded, ensuring extremely robust transmission. Packets that are garbled, packets out of sequence, and transmission bit errors will not cause random changes of state on the contact relays. Also, the mechanical latching relays maintain their state even when the unit loses power. Each module incorporates power and individual status indicating LED's for monitoring confirmation of contact closure of each of the eight channels. These units are interchangeable between stand-alone or card mount configurations.

Applications

- Alarm Event Triggering
- Building Automation and Environmental Control Systems
- Fire and Alarm Systems
- Lane/Gate Control
- PIR Signal Transmission

Features

- Transmits up to eight contact closures over one RS232 link, or one optical fiber
- Eight channel Point-to-Point transmission architecture
- Power and eight individual channel status LED indicators
- Eight SPST latching relays (with individual indicators)
- Tested and certified by an independent laboratory for full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Microprocessor-based logic and latching relays in receiver unit eliminate random contact closure status in the event of loss of link or loss of prime operating power.
- Relay contact rating: 30 VDC, 1 Amp, normally open
- Automatic resettable solid-state current limiters
- Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use
 - ComFit
- Lifetime Warranty



specifications

CONTACTS

Input/Output Channels: 8
 Input Contacts: 5 VDC, 0.5 mA, normally open
 Output Contacts: 30 VDC, 1 Amp, normally open
 Response Time: 25 msec maximum

CONNECTORS

FDC8T/R232, Contacts: Terminal Block
 FDC8T/R(M)(S)1: ST Optical Connectors

LED INDICATORS

- Power
- Channel Status
- Link (receiver only)

ELECTRICAL & MECHANICAL

Power: 8-15 VDC @ 150 mA
 Surface Mount: From Rack
 Rack: 1
 Number of Rack Slots: 1
 Current Protection: Automatic Resettable Solid-State Current Limiters Meets IPC Standard
 Circuit Board: 6.1 x 5.3 x 1.1 in., (15.5 x 13.5 x 2.8 cm)
 Size (in./cm) (LxWxH):
 Surface Mount:
 Shipping Weight: <2 lb./0.9 kg

ENVIRONMENTAL

MTBF: >100,000 hours
 Operating Temp: -40° C to +75° C
 Storage Temp: -40° C to +85° C
 Relative Humidity: 0% to 95% (non-condensing)*

* May be extended to condensation conditions by adding suffix 'C' to model number for conformal coating.

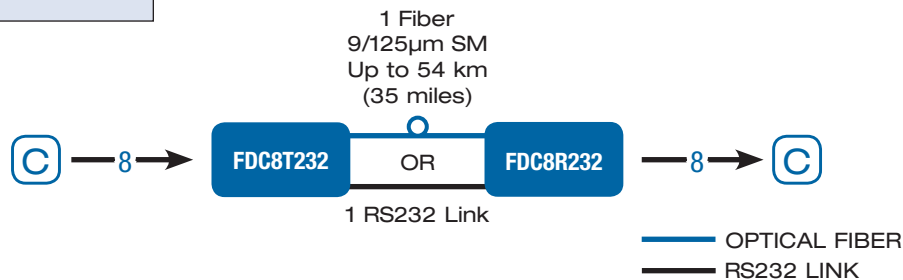


| PART NUMBER | DESCRIPTION | FIBERS REQUIRED | FIBER | OPTICAL PWR BUDGET | MAX. DISTANCE† | # RACK SLOTS |
|-------------|---|-----------------|-------------|--------------------|------------------|--------------|
| FDC8T(M)1 | 8-Channel Contact Closure Transmitter | 1 | Multimode | 16 dB | 16 km (10 miles) | 1 |
| FDC8R(M)1 | 8-Channel Contact Closure Receiver | | 62.5/125µm | | | |
| FDC8T(S)1 | 8-Channel Contact Closure Transmitter | 1 | Single Mode | 23 dB | 69 km (43 miles) | 1 |
| FDC8R(S)1 | 8-Channel Contact Closure Receiver | | 9/125µm | | | |
| Accessories | 9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included) | | | | | |
| Options | Add 'C' for Conformally Coated Circuit Boards (Extra charge, consult factory) | | | | | |

† Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth.

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J
 In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

| PART NUMBER | MEDIA REQUIRED |
|-------------|----------------|
| FDC8T232 | RS232 LINK |
| FDC8R232 | RS232 LINK |



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