

## Fiber Optic Contact Closure Transmission 8-Channel Duplex Contact Closure over Fiber

### System Design

Video



Contact Closure

Data

Audio

Ethernet

Fiber Optic Contact Closure Transmitter & Receiver  
VOS-8FOM-DCCT/R provides for the digital transmission of 8-Channel Duplex dry contact closure or TTL data input signal over one fiber. Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control, PIR signal Transmission, Traffic Signal Control Equipment, etc.

Stand-alone or rack-mount. All units of VOS-8FOM-DCCT/R come in an insert card version. The cards can be inserted into our our 14-slot, 19inch 4U or 6U rack-mountable card cage (VOS-CH04 or VOS-CH06). The card version of this model require two slots widths.

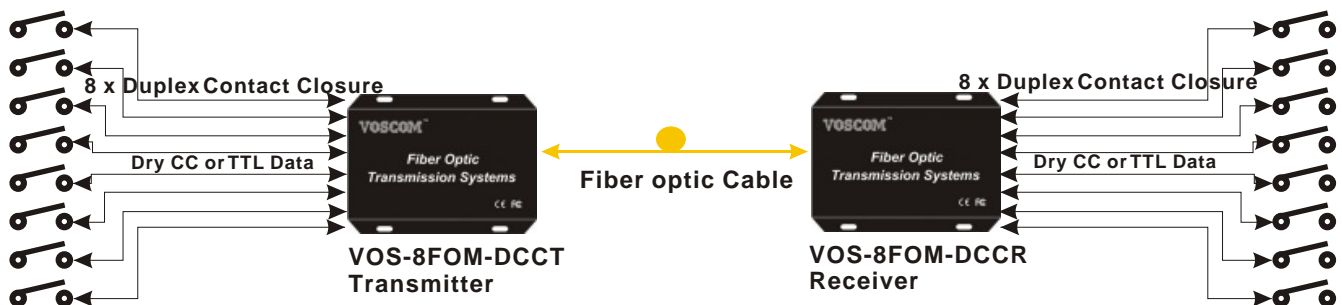
Single-Mode or Multi-Mode, VOS-8FOM-DCCT/R can support FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 2km.



### Features

- Support Point-to-Point or Daisy-Chain connection
- Dry Contact Closure or TTL data over one fiber
- Multi-mode Fiber Support for Distances up to 2.0 km
- Single-Mode Fiber Support for Distances up to 100 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount
- Produce according to customer's specifications, providing OEM

### Typical Configuration



# Contact Closure over Fiber

## Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-8FOM-DCCMT	VOS-8FOM-DCCMR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-8FOM-DCCST	VOS-8FOM-DCCSR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-8FOM-DCCST-4	VOS-8FOM-DCCSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-8FOM-DCCST-6	VOS-8FOM-DCCSR-6	Single-Mode	1310nm/1550nm	25dB	60km

**Note:**

- The Optical Power Budget data fit Multi-mode(62.5/125  $\mu$  m), Single-Mode(9/125  $\mu$  m).
- When using 50/125  $\mu$  m multimode fiber, subtract 3 dB from the optical power budget.
- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter is manufactured by third party and is supplied with fitted screw-terminal output cables. Power adapter included (for standalone) US, European, UK or Australian power plug.
- Please feel free to consult factory for any special requirement and customization

## Specification

<ul style="list-style-type: none"> <li>• Contact Closure                             <ul style="list-style-type: none"> <li>Number of Channels: 8-Channel Duplex CC</li> <li>Data Formats: Contact Closure, TTL</li> <li>Data Rate: DC to 200Kbps</li> <li>Response Time: 2 ms</li> <li>Relay/Contact Rating: 0.5 A @ 200 VDC</li> <li>Bit Error Rate: &lt; 10E-9</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Connectors                             <ul style="list-style-type: none"> <li>Contact Closure: RJ-45</li> <li>Optical: FC/PC or ST/PC Optional</li> <li>Stand-Alone Power: Screw terminal block</li> <li>Rack Power: AC line cord</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Electrical &amp; Mechanical                             <ul style="list-style-type: none"> <li>Input Power Requirements: DC 5V@3A</li> <li>Power Adapter: AC 100V~240V</li> <li>Power Consumption: &lt; 5W</li> <li>Stand-Alone Dimensions: 176.5mm × 158mm × 59mm</li> <li>Card for 4U Rack Dimensions: 145mm × 170mm × 45.4mm</li> <li>Shipping Weight: 2.5kg (include TX &amp; RX)</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Environmental                             <ul style="list-style-type: none"> <li>Operating Temperature: -45° C ~ +75° C</li> <li>Storage Temperature: -45° C ~ +85° C</li> <li>Relative Humidity: 0% ~ 95% (non-condensing)</li> <li>MTBF: &gt; 100,000 hours</li> </ul> </li> </ul>