

### Fiber Optic Contact Closure Transmission 1-Channel Duplex Contact Closure over Fiber

#### System Design

Video

Fiber Optic Contact Closure Transmitter & Receiver  
VOS-1FOM-DCCT/R provides for the digital transmission of 1-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.



Contact Closure

Stand-alone or rack-mount. All units of VOS-1FOM-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).

Data

Single-Mode or Multi-Mode, VOS-1FOM-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.

Audio

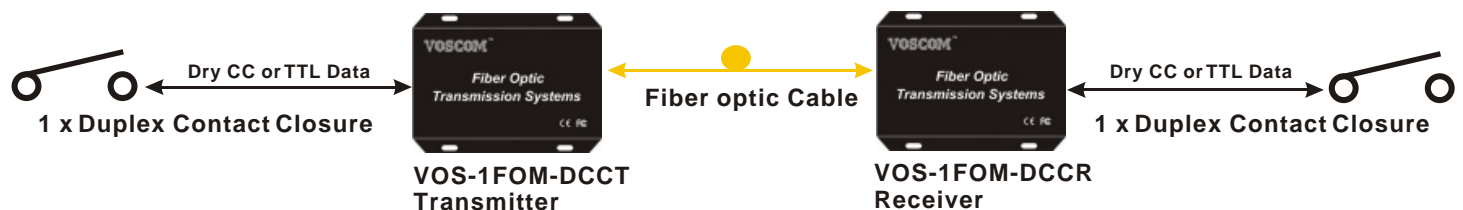


Ethernet

#### 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-1FOM-DCCMT	VOS-1FOM-DCCMR	Multi-Mode	1310nm/1550nm	16dB	2km
VOS-1FOM-DCCST	VOS-1FOM-DCCSR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-1FOM-DCCST-4	VOS-1FOM-DCCSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-1FOM-DCCST-6	VOS-1FOM-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</li> </ul> <p>                     Number of Channels: 1-Channel Duplex CC                      Data Formats: Contact Closure, TTL                      Data Rate: DC to 200Kbps                      Response Time: 2 ms                      Relay/Contact Rating: 0.5 A @ 200 VDC                      Bit Error Rate: &lt; 10E-9                 </p>	<ul style="list-style-type: none"> <li>• Connectors</li> </ul> <p>                     Contact Closure: Terminal Block                      Optical: FC/PC or ST/PC Optional                      Stand-Alone Power: Screw terminal block                      Rack Power: AC line cord                 </p>
	<ul style="list-style-type: none"> <li>• Electrical &amp; Mechanical</li> </ul> <p>                     Input Power Requirements: DC 5V@2A                      Power Adapter: AC 100V~240V                      Power Consumption: &lt; 3W                      Stand-Alone Dimensions: 142mm × 107mm × 25mm                      Card for 4U Rack Dimensions: 145mm × 170mm × 20mm                      Shipping Weight: 1.8kg (include TX &amp; RX)                 </p>
	<ul style="list-style-type: none"> <li>• Environmental</li> </ul> <p>                     Operating Temperature: -45° C~+75° C                      Storage Temperature: -45° C~+85° C                      Relative Humidity: 0%~95% (non-condensing)                      MTBF: &gt;100,000 hours                 </p>