

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

### System Design

#### Fiber Optic Contact Closure Transmitter & Receiver

VOS-1FOM-DCCT/R provides for the digital transmission of 1-Channel Duplex dry contact closure input signal over one fiber.

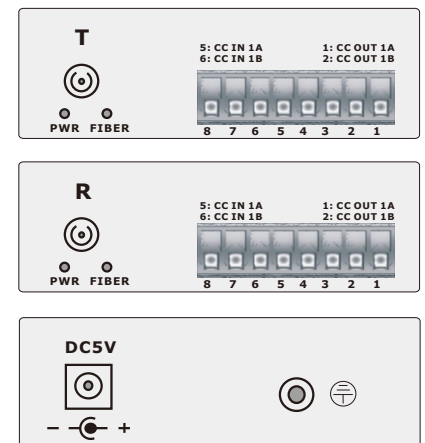
Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control, PIR signal Transmission, Traffic Signal Control Equipment, etc.

**Stand-alone or rack-mount.** All units of VOS-1FOM-DCCT/R come in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

**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 500m.



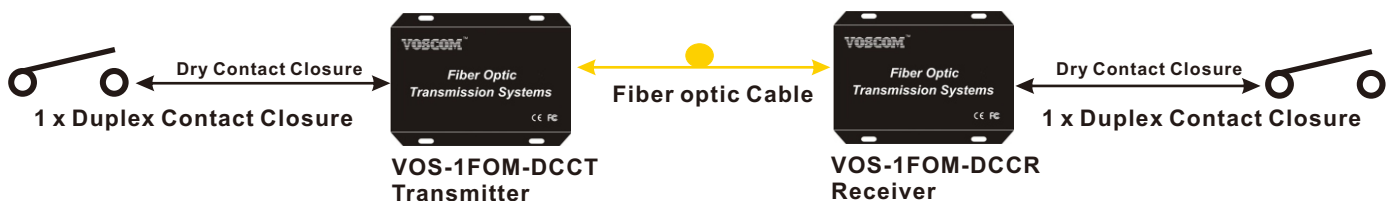
### Panel



### Features

- Support Point-to-Point or Daisy-Chain connection
- Dry Contact Closure over one fiber
- By default, the dry contact closure status is normally open.
- Multi-mode Fiber Support for Distances up to 500m
- 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	500m
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 Mult-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

### • Contact Closure

Number of Channels: 1-Channel Duplex CC  
Data Formats: Dry Contact Closure  
Status: Normally Open (Default)  
Response Time: 2 ms  
Relay/Contact Rating: 0.5 A @ 120VAC  
0.25 A @ 240VAC  
1A@30VDC  
5A@6VDC  
Max output power: 30W

\* **Note:** the contact closure can also support Normally Closed status, but this must be configured by the factory, so please choose the configuration prior to placing the order.

### • Connector

Contact Closure: Terminal Block  
Optical: FC/PC or ST/PC Optional  
Stand-Alone Power: Screw terminal block  
Rack Power: AC line cord

### • Electrical & Mechanical

Input Power Requirements: DC 5V@1A  
Power Adapter: AC 100V~240V  
Power Consumption: < 3W  
Stand-Alone Dimensions: 104mm x 104mm x 28mm  
Shipping Weight: 1kg (include TX & RX)

### • Environmental

Operating Temperature: -45°C~+75°C  
Storage Temperature: -45°C~+85°C  
Relative Humidity: 0%~95% (non-condensing)  
MTBF: >100,000 hours