

Fiber Optic Contact Closure Transmission 1-Channel Simplex Contact Closure over Fiber

System Design

Video

Fiber Optic Contact Closure Transmitter and Receiver
VOS-1FOM-SCCT/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.

Audio

Stand-alone or rack-mount. All units of VOS-1FOM-SCCT/R come in an insert card version. The cards can be inserted into our 14-slot, 19inch 4U rack-mountable card cage (VOS-CH04).



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Contact Closure

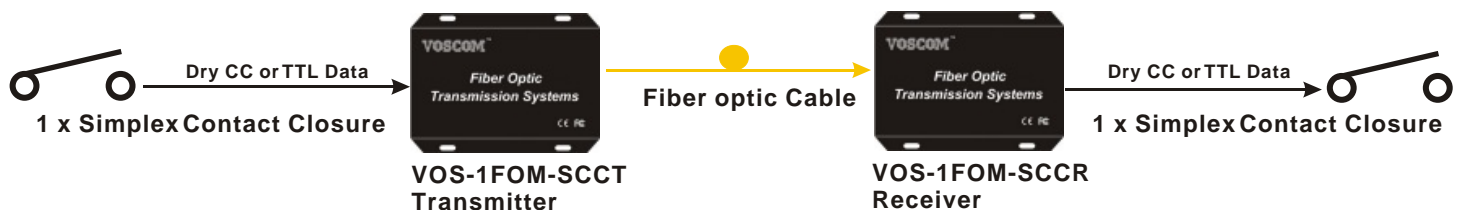
Single-Mode or Multi-Mode, VOS-1FOM-SCCT/R can support FC /PC or ST/PC optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget.

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
- Support Coarse Wavelength Division Multiplexing (CWDM)
- 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-SCCMT	VOS-1FOM-SCCMR	Multi-Mode	1310nm	16dB	2km
VOS-1FOM-SCCST	VOS-1FOM-SCCSR	Single-Mode	1310nm	12dB	20km
VOS-1FOM-SCCST-4	VOS-1FOM-SCCSR-4	Single-Mode	1310nm	18dB	40km
VOS-1FOM-SCCST-6	VOS-1FOM-SCCSR-6	Single-Mode	1550nm	25dB	60km

Note:

- The Optical Power Budget data fit Multi-mode(62.5/125 μ m), Single-Mode(9/125 μ m).
- When using 50/125 μ 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"> • Data 	<ul style="list-style-type: none"> • Connectors
Number of Channels: 1-Channel Simplex 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: < 10E-9	Data: Terminal Block Optical: FC (standard), ST Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord
	<ul style="list-style-type: none"> • Electrical & Mechanical
	Input Power Requirements: DC 5V@2A Power Adapter: AC 100V~240V Power Consumption: < 3W Stand-Alone Dimensions: 95mm × 70mm × 25mm Card for 4U Rack Dimensions: 145mm × 170mm × 20mm Shipping Weight: 1.2kg (include TX & RX)
	<ul style="list-style-type: none"> • Environmental
	Operating Temperature: -45° C~+75° C Storage Temperature: -45° C~+85° C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours

Due to continuous improvement, all products specifications are subject to change without further notice.
 Contact us for custom requirements. E-mail: Sales@voscom.com Website: www.voscom.com