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.

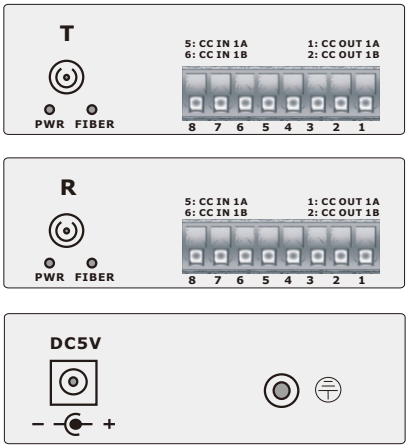
1 Contact Closure

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 16-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

Video Data Audio Ethernet

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.

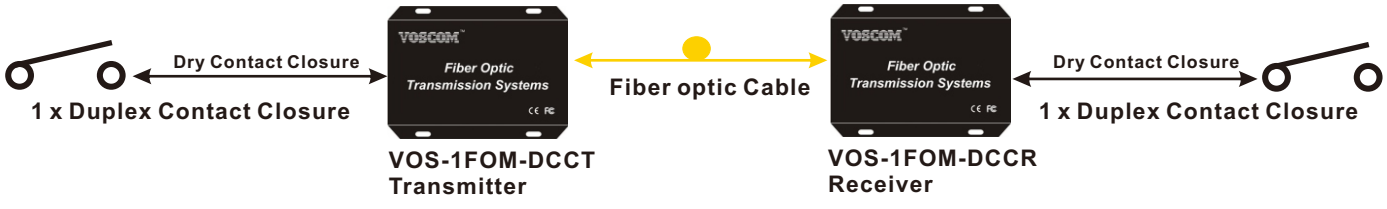
Panel



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



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 Mulit-mode(62.5/125 μm),Single-Mode(9/125 μM.).
- When using 50/125 μM. 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