## VOSCOM

### **Contact Closure over Fiber**

VOSCOM Dry Contact Closure over Fiber converter series support 1~8 Channels simplex or duplex contact closure over one multi-mode or single-mode optical fiber. The Dry contact over fiber extenders are typically used in applications with Access Control System, Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, PIR signal Transmission, Traffic Signal Control Equipment, etc.

All Dry Contact over fiber converters are available for stand-alone or rack-mount installations. FC or ST optical connectors is standard. Plug and Play design ensures adjustment-free installation and operation, and optical adjustments are never required. LED indicators are provided to instantly monitor the system operating status.

### **Features**

- 1~8 channels Contact Closure over Fiber
- Simplex or Duplex
- Normally open or Normally Closed
- Pluggable terminal blocks
- Multi-mode Fiber Support for Distances up to 500m
- Single-Mode Fiber Support for Distances up to 60 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops
- Stand alone or rack-mount

### **Applications**

- Fire & Alarm Systems
- Alarm Event Triggering
- PIR signal Transmission
- Traffic Signal Control
- Access Control System
- Building Automation
- Environmental Control Systems



1-Channel Simplex Contact Closure over Fiber



2-Channel Simplex Contact Closure over Fiber



4-Channel Simplex Contact Closure over Fiber



8-Channel Simplex Contact Closure over Fiber



4-Channel Duplex Contact Closure over Fiber



8-Channel Duplex Contact Closure over Fiber



### **Ordering Information**

Ordering Information	
Part Number	Description
VOS-1FOM-SCCT/R	1-Channel Simplex Contact Closure over Fiber, Terminal Block Connector
VOS-2FOM-SCCT/R	2-Channel Simplex Contact Closure over Fiber, Terminal Block Connector
VOS-4FOM-SCCT/R	4-Channel Simplex Contact Closure over Fiber, Terminal Block Connector
VOS-8FOM-SCCT/R	8-Channel Simplex Contact Closure over Fiber, Terminal Block Connector
VOS-1FOM-DCCT/R	1-Channel Duplex Contact Closure over Fiber, Terminal Block Connector
VOS-2FOM-DCCT/R	2-Channel Duplex Contact Closure over Fiber, Terminal Block Connector
VOS-4FOM-DCCT/R	4-Channel Duplex Contact Closure over Fiber, Terminal Block Connector
VOS-8FOM-DCCT/R	8-Channel Duplex Contact Closure over Fiber, Terminal Block Connector

**Details link:** https://www.voscom.com/dry-contact-over-fiber/



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

### **System Design**

Video

### **Fiber Optic Contact Closure Transmitter & Receiver**

VOS-1FOM-SCCT/R provides for the digital transmission of 1-Channel Simplex 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-SCCT/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).

Data

**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. Manufacturer's standard is: Single-mode 20km or Multi-mode 500m.



## Panel



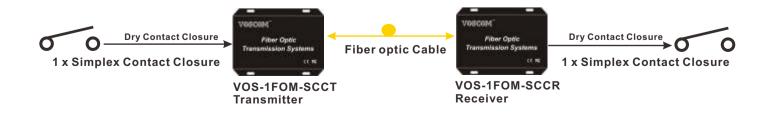




### Ethernet

### **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



### **Ordering Information**

Model	lumber	Fiber Mode	Fibor Modo	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver		wavelengths	Budget	Distance	
VOS-1FOM-SCCMT	VOS-1FOM-SCCMR	Multi-Mode	1310nm	16dB	500m	
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	1310nm	25dB	60km	

### Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 µm), Single-Mode(9/125 µM.).
- $\bullet$  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	• Connector	
Number of Channels: 1-Channel Simplex 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		FC/PC or ST/PC Optional Screw terminal block
1A@30VDC	• Electrical & Mechanical	
5A@6VDC Max output power: 30W		AC 100V~240V
	• Environmental	
* <b>Note:</b> 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.	Operating Temperature: Storage Temperature: Relative Humidity: MTBF:	-45°C~+85°C 0%~95% (non-condensing)



### **Fiber Optic Contact Closure Transmission** 2-Channel Simplex Contact Closure over Fiber

### **System Design**

### Fiber Optic Contact Closure Transmitter & Receiver

VOS-2FOM-SCCT/R provides for the digital transmission of 2-Channel Simplex 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. Contact Closure Stand-alone or rack-mount. All units of VOS-2FOM-SCCT/R come in an insert card version. The cards can be inserted into

Single-Mode or Multi-Mode, VOS-2FOM-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. Manufacturer's standard is: Single-mode 20km or Multi-mode 500m.

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

### **Panel**

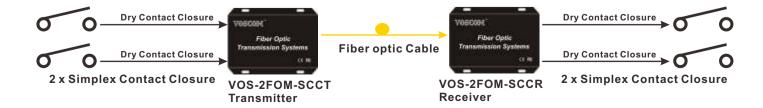






### **Features**

- 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



### **Ordering Information**

Model	lumber	Fiber Mode	Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver			wavelengths	Budget	Distance
VOS-2FOM-SCCMT	VOS-2FOM-SCCMR	Multi-Mode	1310nm	16dB	500m	
VOS-2FOM-SCCST	VOS-2FOM-SCCSR	Single-Mode	1310nm	12dB	20km	
VOS-2FOM-SCCST-4	VOS-2FOM-SCCSR-4	Single-Mode	1310nm	18dB	40km	
VOS-2FOM-SCCST-6	VOS-2FOM-SCCSR-6	Single-Mode	1310nm	25dB	60km	

### Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm), Single-Mode(9/125 μm).
- $\bullet$  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	• Connector	
Number of Channels: 2-Channel Simplex 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	Contact Closure: Terminal Block Optical: FC/PC or ST/PC Optional Stand-Alone Power: Screw terminal block Rack Power: AC line cord	
1A@30VDC	• Electrical & Mechanical	
5A@6VDC Max output power: 30W	Input Power Requirements: DC 5V@1A Power Adapter: AC 100V~240V Power Consumption: < 5W Stand-Alone Dimensions: 104mm x 104mm x 28mm Shipping Weight: 1kg (include TX & RX)	ı
	• Environmental	
* <b>Note:</b> 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.	Operating Temperature: -45°C~+75°C Storage Temperature: -45°C~+85°C Relative Humidity: 0%~95% (non-condensin MTBF: >100,000 hours	ıg)



### **Fiber Optic Contact Closure Transmission** 4-Channel Simplex Contact Closure over Fiber

### **System Design**

### Fiber Optic Contact Closure Transmitter & Receiver

VOS-4FOM-SCCT/R provides for the digital transmission of 4-Channel Simplex 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-4FOM-SCCT/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).

Single-Mode or Multi-Mode, VOS-4FOM-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. Manufacturer's standard is:

Single-mode 20km or Multi-mode 500m.





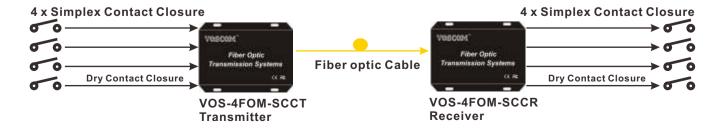
**Panel** 

### **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

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### **Ordering Information**

Model	Number	Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver		ribei Mode	Wavelengths	Budget
VOS-4FOM-SCCMT	VOS-4FOM-SCCMR	Multi-Mode	1310nm	16dB	500m
VOS-4FOM-SCCST	VOS-4FOM-SCCSR	Single-Mode	1310nm	12dB	20km
VOS-4FOM-SCCST-4	VOS-4FOM-SCCSR-4	Single-Mode	1310nm	18dB	40km
VOS-4FOM-SCCST-6	VOS-4FOM-SCCSR-6	Single-Mode	1310nm	25dB	60km

### Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 µm), Single-Mode(9/125 µm).
- $\bullet$  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**

Specification		
Contact Closure	• Connector	
Number of Channels: 4-Channel Simplex 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	Contact Closure: Terr Optical: FC/ Stand-Alone Power: Scre Rack Power: AC I	PC or ST/PC Optional rew terminal block
1A@30VDC	• Electrical & Mechanical	
5A@6VDC Max output power: 30W	1	4mm x 104mm x 28mm
	• Environmental	
* <b>Note:</b> 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.	· ·	



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

# 8 -> Contact Closure

### **System Design**

### **Fiber Optic Contact Closure Transmitter & Receiver**

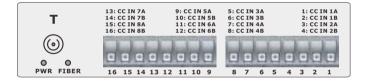
VOS-8FOM-SCCT/R provides for the digital transmission of 8-Channel Simplex dry contact closure input signal over one fiber.

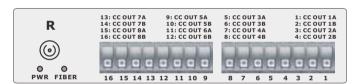
Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control, PIR signal Transmission, Traffic Signal Control Equipment, etc.

**Stand-alone or rack-mount**. All units of VOS-8FOM-SCCT/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).



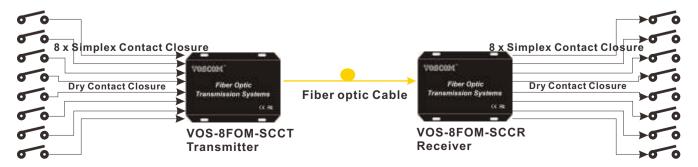
### **Panel**





### **Features**

- 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
- $\bullet$  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



### **Ordering Information**

Model	Number	nber Fiber Mode		Optical Power	Maximum Transmission
Transmitter	Receiver	- Fiber Mode	Fiber Mode Wavelengths	Budget	Distance
VOS-8FOM-SCCMT	VOS-8FOM-SCCMR	Multi-Mode	1310nm	16dB	500m
VOS-8FOM-SCCST	VOS-8FOM-SCCSR	Single-Mode	1310nm	12dB	20km
VOS-8FOM-SCCST-4	VOS-8FOM-SCCSR-4	Single-Mode	1310nm	18dB	40km
VOS-8FOM-SCCST-6	VOS-8FOM-SCCSR-6	Single-Mode	1310nm	25dB	60km

### Note:

- The Optical Power Budget data fit Mulit-mode(62.5/125 μm), Single-Mode(9/125 μM.).
- $\bullet$  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	• Connector	
Number of Channels: 8-Channel Simplex 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	· ·	FC/PC or ST/PC Optional Screw terminal block
	• Electrical & Mechanical	
	Power Consumption: Stand-Alone Dimensions:	AC 100V~240V
	• Environmental	
* <b>Note:</b> 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.		



## 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 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.

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**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).

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.

Audio

**Panel** 



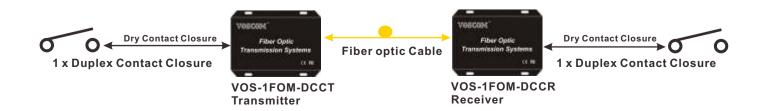




Ethernet

### **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



### **Ordering Information**

Model	lumber	Fiber Mode	Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver		ribei Mode	Wavelengths	Budget
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.).
- $\bullet$  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	• Connector	
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		FC/PC or ST/PC Optional Screw terminal block
1A@30VDC	• Electrical & Mechanical	
5A@6VDC Max output power: 30W	Power Consumption: Stand-Alone Dimensions:	AC 100V~240V
	• Environmental	
* <b>Note:</b> 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.	,	

# voscom

## Fiber Optic Contact Closure Transmission 2-Channel Duplex Contact Closure over Fiber

### **System Design**

Video

### Fiber Optic Contact Closure Transmitter & Receiver

VOS-2FOM-DCCT/R provides for the digital transmission of 2-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.

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Contact Closure

**Stand-alone or rack-mount**. All units of VOS-2FOM-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).

Data Single-Mode or Multi-Mode, VOS-2FOM-DCCT/R can support

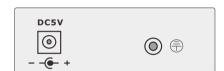
FC /PC or ST/PC Optical connector, can be used in Daisy-Chain system (Need to customize). The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km or Multi-mode 500m.

Audio

### **Panel**



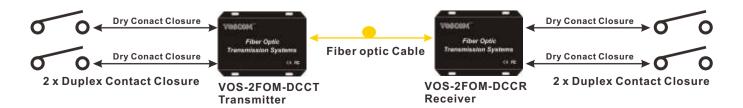




Ethernet

### **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



### **Ordering Information**

Model	Number	Fiber Mode	Fiber Mode Wavelengths	Fiber Mode	Wayolongths	Optical Power	Maximum Transmission
Transmitter	Receiver			Budget	Distance		
VOS-2FOM-DCCMT	VOS-2FOM-DCCMR	Multi-Mode	1310nm/1550nm	16dB	500m		
VOS-2FOM-DCCST	VOS-2FOM-DCCSR	Single-Mode	1310nm/1550nm	12dB	20km		
VOS-2FOM-DCCST-4	VOS-2FOM-DCCSR-4	Single-Mode	1310nm/1550nm	18dB	40km		
VOS-2FOM-DCCST-6	VOS-2FOM-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.).
- $\bullet$  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	• Connector	
Number of Channels: 2-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		FC/PC or ST/PC Optional Screw terminal block
1A@30VDC	• Electrical & Mechanical	
5A@6VDC Max output power: 30W	Power Consumption: Stand-Alone Dimensions:	AC 100V~240V
	• Environmental	
* <b>Note:</b> 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.	,	



## Fiber Optic Contact Closure Transmission 4-Channel Duplex Contact Closure over Fiber

# Contact Closure

### **System Design**

### Fiber Optic Contact Closure Transmitter & Receiver

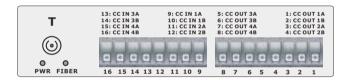
VOS-4FOM-DCCT/R provides for the digital transmission of 4-Channel Duplex dry contact closure input signal over one fiber.

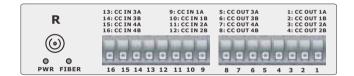
Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control, PIR signal Transmission, Traffic Signal Control Equipment, etc.

**Stand-alone or rack-mount**. All units of VOS-4FOM-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).



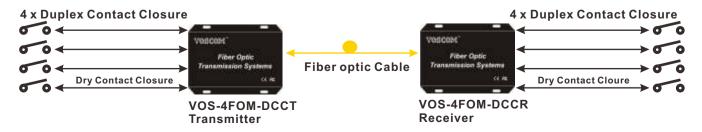
### **Panel**





### **Features**

- 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



### **Ordering Information**

Model	lumber	Fiber Mode	Fiber Mode Wavelengths	Optical Power	Maximum Transmission
Transmitter	Receiver			Wavelengths	Budget
VOS-4FOM-DCCMT	VOS-4FOM-DCCMR	Multi-Mode	1310nm/1550nm	16dB	500m
VOS-4FOM-DCCST	VOS-4FOM-DCCSR	Single-Mode	1310nm/1550nm	12dB	20km
VOS-4FOM-DCCST-4	VOS-4FOM-DCCSR-4	Single-Mode	1310nm/1550nm	18dB	40km
VOS-4FOM-DCCST-6	VOS-4FOM-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.).
- $\bullet$  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	• Connector	
Number of Channels: 4-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		FC/PC or ST/PC Optional Screw terminal block
	• Electrical & Mechanical	
	Power Consumption: Stand-Alone Dimensions:	AC 100V~240V
	• Environmental	
* <b>Note:</b> 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.	· ·	

## Voscom

## Fiber Optic Contact Closure Transmission 4-Channel Duplex Contact Closure over Fiber

# Contact Closure

### **System Design**

### **Fiber Optic Contact Closure Transmitter & Receiver**

VOS-4FOM-DCCT/R provides for the digital transmission of 4-Channel Duplex dry contact closure input signal over one fiber.

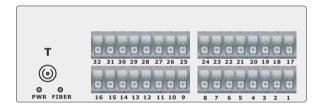
Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control,

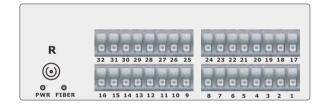
**Stand-alone or rack-mount**. All units of VOS-4FOM-DCCT/R come in an insert card version. The cards can be inserted into our our 16-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

PIR signal Transmission, Traffic Signal Control Equipment, etc.



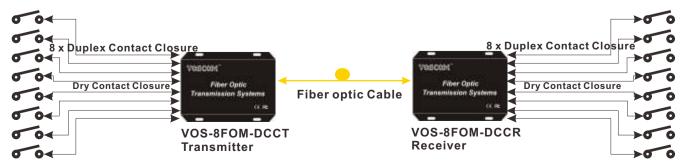
### **Panel**





### **Features**

- 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
- $\bullet$  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



### **Ordering Information**

Model	Number	Fiber Mode	iber Mode Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
VOS-8FOM-DCCMT	VOS-8FOM-DCCMR	Multi-Mode	1310nm/1550nm	16dB	500m
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 Mulit-mode(62.5/125 µm), Single-Mode(9/125 µM.).
- $\bullet$  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	• Connector	
Number of Channels: 8-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	Stand-Alone Power:	Terminal Block FC/PC or ST/PC Optional Screw terminal block AC line cord
	• Electrical & Mechanical	
	Power Consumption: Stand-Alone Dimensions:	AC 100V~240V
	• Environmental	
* <b>Note:</b> 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.	· ·	