

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

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

System Design

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.

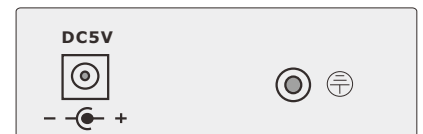
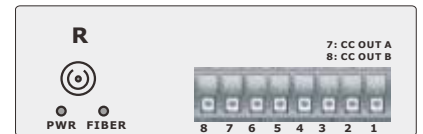
Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control, PIR signal Transmission, Traffic Signal Control Equipment, etc.

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

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.



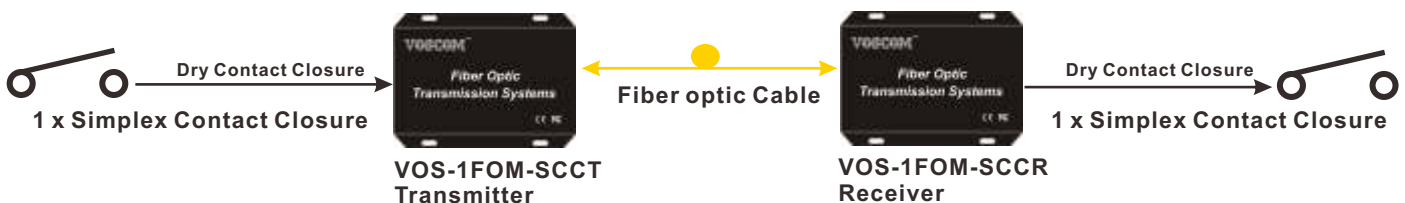
Panel



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



Video



Contact Closure

Data

Audio

Ethernet

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	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 Multit-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 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

* **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

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.

Stand-alone or rack-mount. All units of VOS-2FOM-SCCT/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-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.



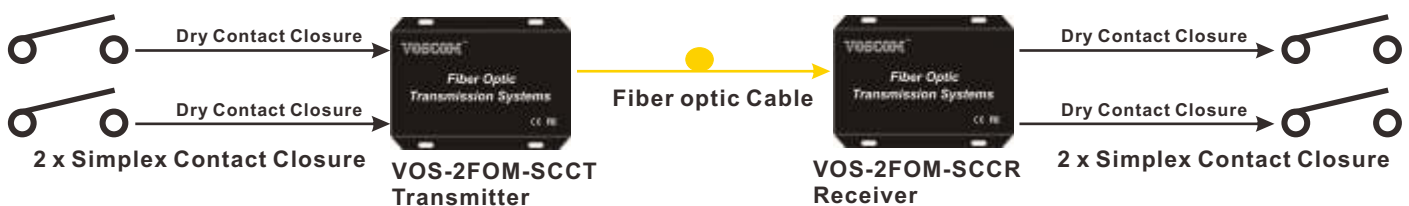
Panel



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



Video

2 →
Contact Closure

Data

Audio

Ethernet

Contact Closure over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
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 Multit-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: 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
 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: < 5W
 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

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.

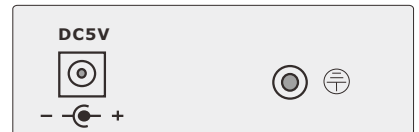
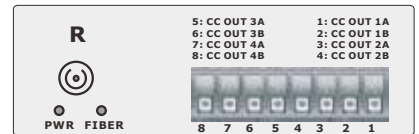
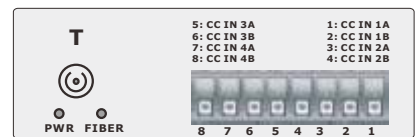
Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control, PIR signal Transmission, Traffic Signal Control Equipment, etc.

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 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.



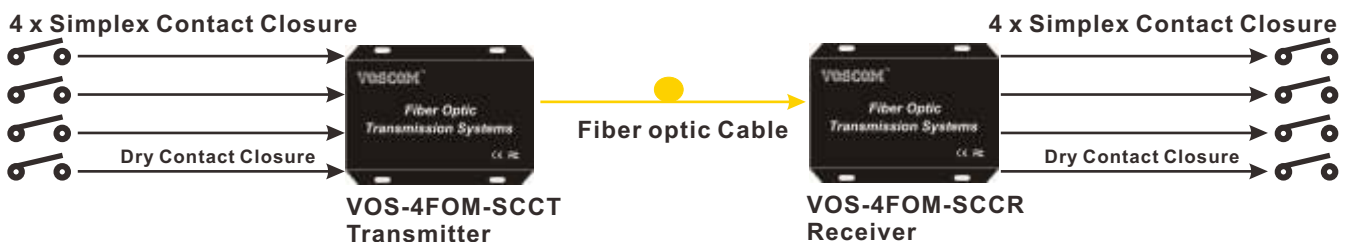
Panel



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

Typical Configuration



Video

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Contact Closure

Data

Audio

Ethernet

Contact Closure over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
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 Multit-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: 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
 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: < 5W
 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

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

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.

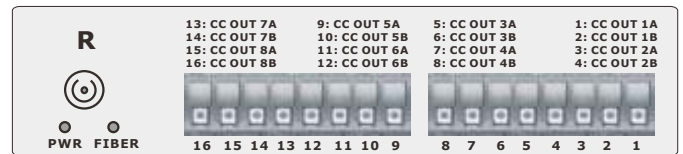
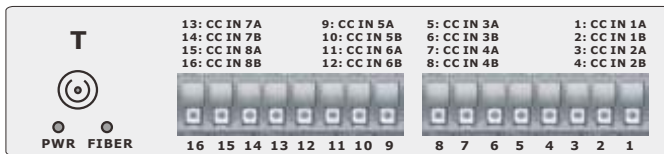
Stand-alone or rack-mount. All units of VOS-8FOM-SCCT/R come in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

8

Contact Closure



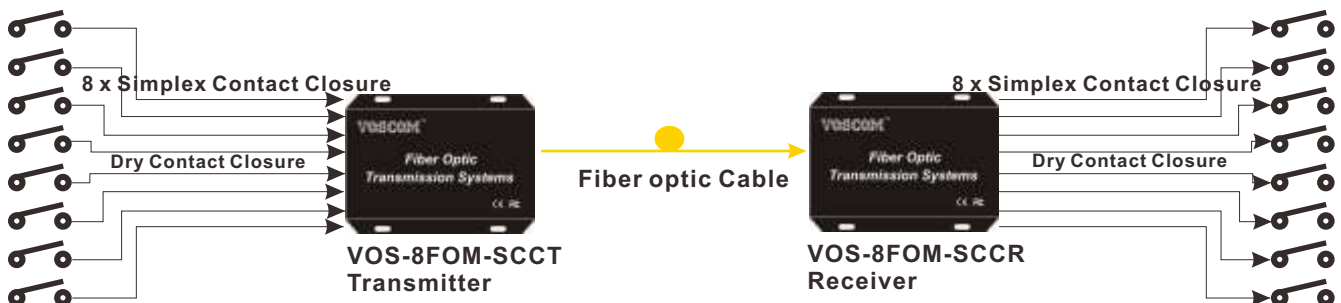
Panel



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

Typical Configuration



Contact Closure over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
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 Multit-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: 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

* **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@2A
 Power Adapter: AC 100V~240V
 Power Consumption: < 3W
 Stand-Alone Dimensions: 114mm x 167mm x 28mm
 Shipping Weight: 1.2kg (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

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.

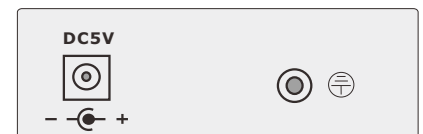
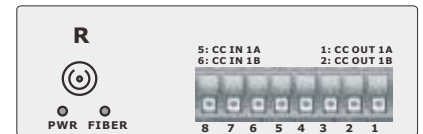
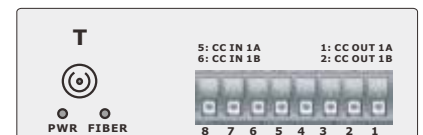
Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control, PIR signal Transmission, Traffic Signal Control Equipment, etc.

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.



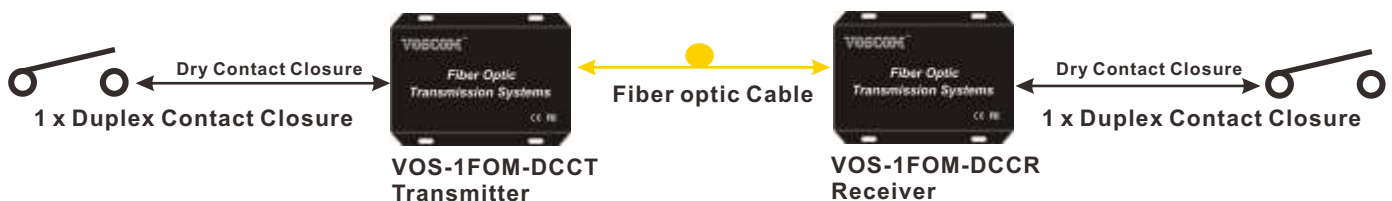
Panel



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



Video



Contact Closure

Data

Audio

Ethernet

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 Multit-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

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

System Design

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.

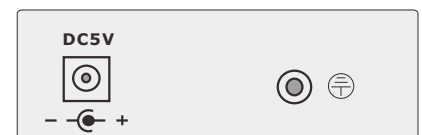
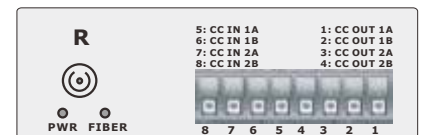
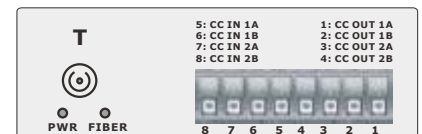
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Stand-alone or rack-mount. All units of VOS-2FOM-DCCT/R come in an insert card version. The cards can be inserted into our 16-slot, 19inch 4U rack-mountable card cage (VOS-CH04).

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.



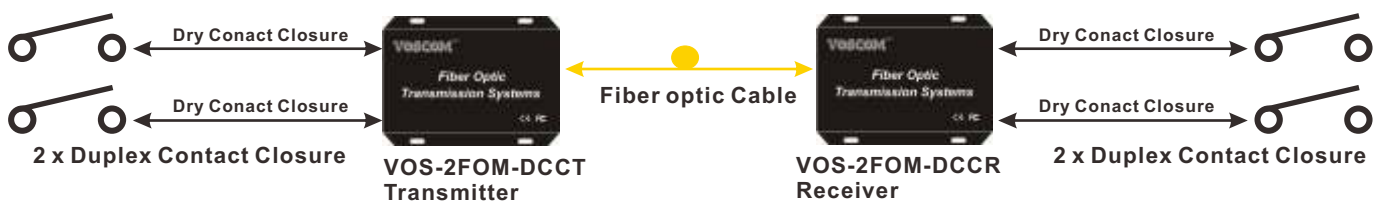
Panel



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



Video



Contact Closure

Data

Audio

Ethernet

Contact Closure over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
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 Multit-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: 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
 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

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



System Design

Fiber Optic Contact Closure Transmitter & Receiver

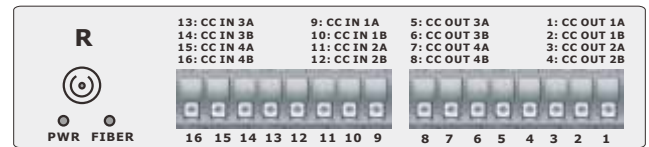
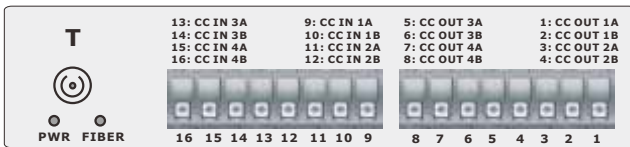
VOS-4FOM-DCCT/R provides for the digital transmission of 4-Channel Duplex dry contact closure input signal over one fiber.

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



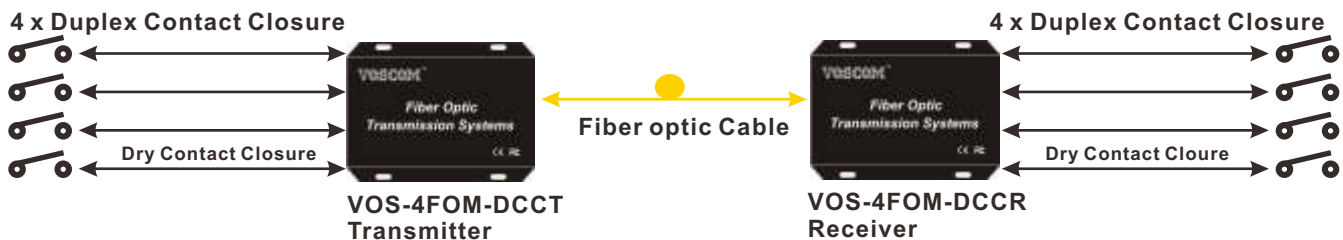
Panel



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

Typical Configuration



Contact Closure over Fiber

Ordering Information

Model Number		Fiber Mode	Wavelengths	Optical Power Budget	Maximum Transmission Distance
Transmitter	Receiver				
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 Multit-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: 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

* **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@2A
 Power Adapter: AC 100V~240V
 Power Consumption: < 3W
 Stand-Alone Dimensions: 114mm x 167mm x 28mm
 Shipping Weight: 1.2kg (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

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

System Design

Fiber Optic Contact Closure Transmitter & Receiver

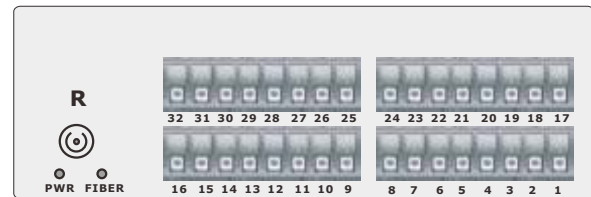
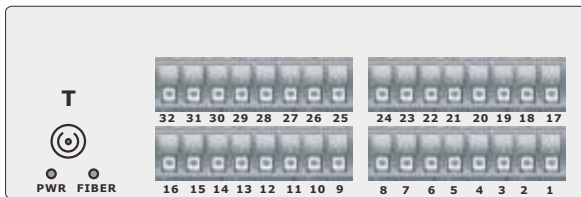
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Applications for Alarm Event Triggering, Building Automation and Environmental Control Systems, Fire & Alarm Systems, Gate control, PIR signal Transmission, Traffic Signal Control Equipment, etc.

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



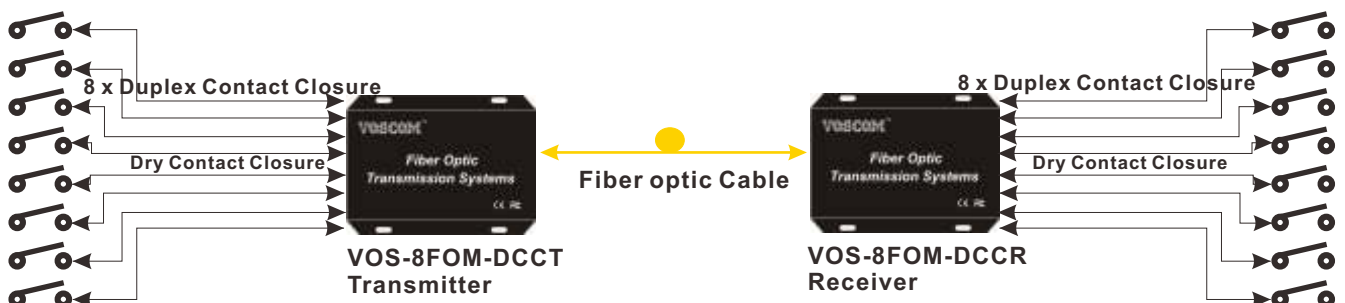
Panel



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

Typical Configuration



Contact Closure over Fiber

Ordering Information

Model Number		Fiber 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 Multit-mode(62.5/125 μm),Single-Mode(9/125 μM).
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- 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: 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

* **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@2A
 Power Adapter: AC 100V~240V
 Power Consumption: < 3W
 Stand-Alone Dimensions: 114mm x 167mm x 45mm
 Shipping Weight: 2kg (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