VOSCOM

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

Video

8 →

Contact
Closure

Data

Audio

Ethernet

System Design

Fiber Optic Contact Closure Transmitter & Receiver
VOS-8FOM-SCCT/R provides for the digital transmission of 8-Channel
Simplex 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.

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 14-slot, 19inch 4U or 6U rack-mountable card cage
(VOS-CH04 or VOS-CH06). The card version of this model
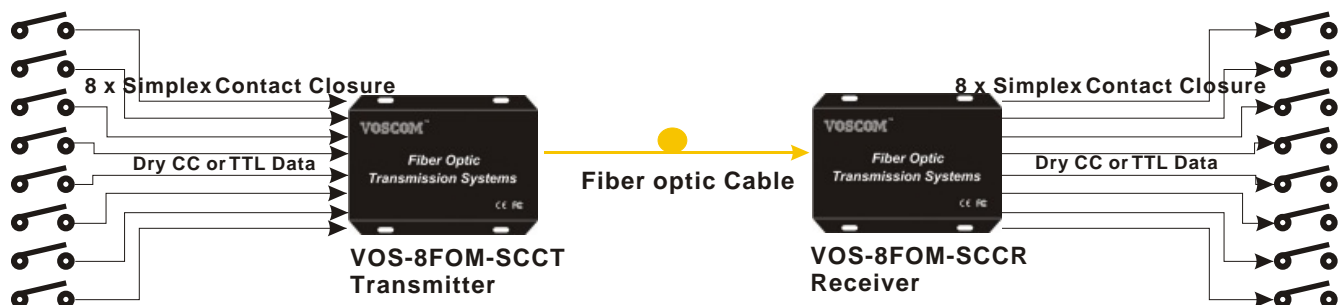require two slots widths.

Single-Mode or Multi-Mode, VOS-8FOM-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 2km.

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

• Stand alone or rack-mount

• Produce according to customer's specifications, providing OEM

Typical Configuration

8 x Simplex Contact Closure

Dry CC or TTL Data

**VOS-8FOM-SCCT
Transmitter**

Fiber optic Cable

**VOS-8FOM-SCCR
Receiver**

8 x Simplex Contact Closure

Dry CC or TTL Data

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	2km
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	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: 8-Channel Simplex CC
  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

- Connectors

  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@3A
  Power Adapter: AC 100V~240V
  Power Consumption: < 5W
  Stand-Alone Dimensions: 176.5mm × 158mm × 59mm
  Card for 4U Rack Dimensions: 145mm × 170mm × 45.4mm
  Shipping Weight: 2.5kg (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