

Product Models

Model	Function	Connector	Fiber Cable	Wavelength	Max Distance
FDVT1AA3A-AE	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FDVR1AA3A-AE	Receiver	ST Simplex	MM	850/1310nm	3 Km
FDVT1AA5A-AE	Transmitter	ST Simplex	SM	1310/1550nm	30 Km
FDVR1AA5A-AE	Receiver	ST Simplex	SM	1310/1550nm	30 Km

ST-SC adapters are available for applications using SC fiber connectors.

Technical Specifications

VIDEO

Video Input:	2 Volt pk-pk (75 Ohms)
Input/Output Channels:	1
Bandwidth:	5 Hz - 8MHz
Bit Resolution:	8 - Bit
Differential Gain:	< ±1%
Differential Phase:	< ±1°
Tilt:	< 1%
S/N Ratio:	60dB (Weighted)

WAVELENGTH

Multi-Mode:	850/1310nm
Single-Mode:	1310/1550nm

OPTICAL EMITTER

Laser Diode	
Number of Fibers:	1

DATA

Data Interface:	RS-485*
Data Rate:	Up to 300 Kbps
Data Channels:	(1) Bi-Directional
Bit Error Rate:	10 ⁻⁹
	*RS-232 or RS-422 Optional

CONTACT CLOSURE

Contact Closure:	24VDC, 0.5A (Normally Open)
	125VAC, 0.1A (Normally Open)

AUDIO

Audio Channels:	(1) Bi-Directional
Audio Impedance:	600 Ohms
Input/Output Voltage:	2.0Vp-p
Frequency Response:	10Hz-20KHz
Bit Resolution:	24-bit
S/N Ratio:	>95db (Weighted)

ETHERNET

Data Rate:	10/100 Mbps
Data Channels:	1

CONNECTORS

Optical:	ST
Video:	BNC
Data/Audio/CC:	Screw Terminal Strip
Ethernet:	Shielded RJ-45

GENERAL

Power Supply:	5VDC, 2A
Dimensions:	5.98 x 5.12 x 1.13 Inches
MTBF:	> 100,000 Hours
Operating Temperature:	-35° C to +65° C
Storage Temperature:	-45° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)