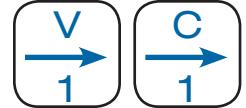




8-bit digitally encoded video receiver with contact closure



Description

The ComNet™ FVR1C1B receives one channel of video over one optical fiber utilizing 8-Bit digital decoding for high-quality video and contact closure transmission. These environmentally hardened units are ideal for use in unconditioned roadside or out-of-plant installations. This module is universally compatible with major CCTV camera manufacturers. Bi-color (Red/Green) LED indicators are provided for rapidly ascertaining equipment operating status. These units are interchangeable between stand-alone or card mount configurations.

Features

- 8-Bit digital video and contact closure transmission: receives real-time color video signal over optical fiber
- Contact closure
- Exceptionally low video distortion with zero Performance Variation vs. Optical Path Loss
- Compatible with all NTSC, PAL, or SECAM CCTV camera systems
- Wide optical dynamic range: optical attenuators are never required
- NTCIP compatible
- Tested and certified by an independent laboratory for full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Robust design ensures extremely high reliability in unconditioned out-of-plant environments
- Bi-color (Red/Green) LED status indicators provide rapid indication of critical operating parameters
- Automatic resettable solid-state current limiters
- Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use – ComFit
- Lifetime Warranty

Applications

- High-Performance CCTV (Fixed Video)



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FVR1C1B(M)(S)1

specifications

VIDEO

Video:	1 volt pk-pk (75 ohms)
Overload:	>1.5V pk-pk
Video Channels:	1
Bandwidth (minimum):	10 Hz - 6.5 MHz
Differential Gain:	<2%
Differential Phase:	<0.7°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	>60 dB @ Maximum Optical Loss Budget
Max. RG-59 COAX Distance:	100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth

CONTACTS

Contact Interface:	Response Time: 0.5 msec
Output:	SPST Relay, 0.5 A Contact Rating - normally open

WAVELENGTH	1310 nm, Multimode & Single Mode
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NUMBER OF FIBERS	1
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LED INDICATORS	- Contact - Video
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CONNECTORS	
Optical:	ST
Power:	Terminal Block
Video:	BNC (Gold Plated Center-Pin)

ELECTRICAL & MECHANICAL

Power:	8-15 VDC @ 2W
Surface Mount:	From Rack
Rack Mount:	From Rack
Number of Rack Slots:	1
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm) (L×W×H):	6.1 × 5.3 × 1.1 in., (15.5 × 13.5 × 2.8 cm)
Shipping Weight:	<2 lb./0.9 kg

ENVIRONMENTAL

MTBF:	>100,000 hours
Operating Temp:	-40° C to +75° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)*

* May be extended to condensation conditions by adding suffix '/C' to model number for conformal coating.



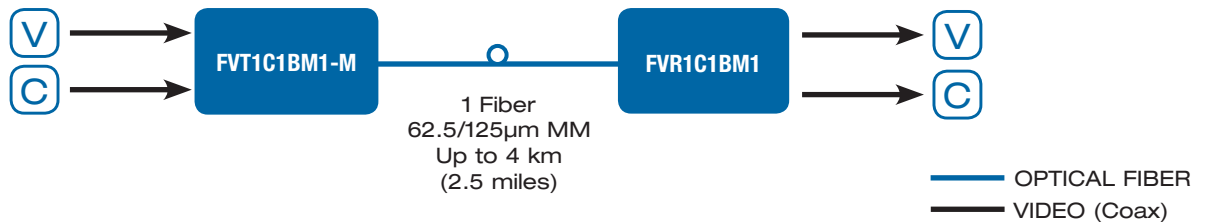
PART NUMBER	DESCRIPTION	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE†	# RACK SLOTS
FVR1C1BM1	Video Receiver (1310 nm)	1	Multimode 62.5/125µm	12 dB	4 km (2.5 miles)	1
FVR1C1BS1	Video Receiver (1310 nm)	1	Single Mode 9/125µm	16 dB	54 km (33 miles)	1
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)					
Options	Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)					

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended.

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

† Distance may be limited by optical dispersion.



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