4-channel 8-bit digital video receiver with 4 contact closures over 4 optical fibers + four 8-bit digitally encoded video mini transmitters with contact closure

COMPAK4VB

POWER SUPPLY	75° -40°	VIDEO	CONTACT CLOSURE
INCLUDED	HARDENED	4	4

The ComNet™ FVR4C4B Video and Contact Closure Receiver unit supports four independent channels of video and four independent dry contact closures over four separate optical fibers. The FVT1C1B-M video mini-transmitter supports transmission of a fixed video and a contact closure signal using an 8-bit digitally encoded signal on one multimode or single mode fiber optic cable. State-of-the-art 8-bit digital decoding is utilized for the four video channels. The contact closure channels may be used with triggered-event CCTV camera systems, or other applications such as access controlled gates, doors, or other equipment requiring remote actuation and control. Plug-and-play design ensures ease of installation, and no electrical or optical adjustments are ever required.

FEATURES

› 8-bit digitally encoded video: transmits and receives 4 real-time color video signals on four separate optical fibers (via four transmitters and one receiver)

› 4 independent simplex dry contact closure channels

› Low video distortion, with zero performance variation vs. optical path loss

› Compatible with all NTSC, PAL, or SECAM CCTV camera systems

› 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

› May be DIN-rail mounted with the ComNet model DINBKT4 adaptor (sold separately)

› Lifetime Warranty

APPLICATIONS

› Industrial Security: Triggered-event CCTV surveillance and incident detection

› Industrial Control/Factory Automation: Triggered-event CCTV monitoring and control of critical manufacturing and shop floor processes

› Transportation/ITS: Triggered-event CCTV roadside monitoring and surveillance systems, and actuation of remotely actuated gate/lane controllers

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SPECIFICATIONS

Video

Video	1 volt pk-pk (75 ohms)
Overload	>1.5V pk-pk
Video Channels	4
Bandwidth (minimum)	5 Hz - 8 MHz
Differential Gain	<2%
Differential Phase	<2°
Tilt	<0.5%
Signal-to-Noise Ratio (SNR)	60 dB @ Maximum Optical Loss Budget

Contact
Output: 30VDC @ 500mA max., resistive-load

Wavelength
1310 nm Single Mode

Number Of Fibers
4

Indicating LEDs
- Optical - Contact Closed
- Video (Sync Presence for each Channel)

Connectors

Optical	ST
Power	Terminal Block (Receiver) 2.1mm Center Positive Plug
Video	BNC
Contact	Terminal Block

Power

Operating Voltage Range	8 to 15 VDC (Receiver), 5 VDC (Transmitters)
Rack Mount Power Supply	From Rack (Receiver only)
Power Consumption	5W (Receiver), 2W (Transmitters)

Electrical & Mechanical

Number of Rack Slots	1 (Receiver)
Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Sizes	
Receiver	6.1 × 5.3 × 1.1 in (15.5 × 13.5 × 2.8 cm)
Transmitters	3.3 × 2.5 × 1.1 in (8.4 × 6.4 × 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)[1]

AGENCY COMPLIANCE
PART 15 COMPLIANT · E322911 · N24621

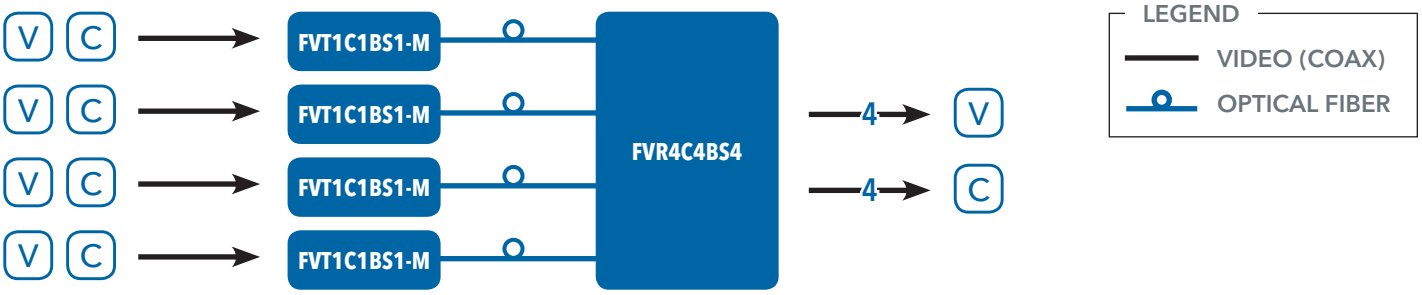
MADE IN THE USA

INCLUDED IN KIT

Part Number	Description	Fiber	Optical Pwr Budget	Max. Distance[2]
FVR4C4BS4	4-Channel Video + Contact Receiver	Single Mode 9/125µm	16 dB	54 km (33 miles)
4 × FVT1C1BS1-M	1-Channel Video/Contact Transmitters	Single Mode 9/125µm	16 dB	54 km (33 miles)
Accessories	5 × DC Power Supply (included)			
Options	[1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate – With mounting hardware (Optional, order model DINBKT4)			

[2] Distance may be limited by optical dispersion.
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.

TYPICAL APPLICATION



Low Power Consumption

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