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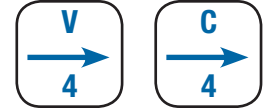 4-channel 8-bit digital video receiver with 4 contact closures over 4 optical fibers + four 8-bit digitally encoded video mini transmitters with contact closure

V → 4 **C → 4**

POWER SUPPLIES INCLUDED

Description

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. Bi-color (Red/Green) LED indicators are provided for rapidly ascertaining equipment operating status. Packaged in the exclusive ComNet ComFit housing, these units may be either surface or shelf-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate. Additionally the FVR4C4BS4 may be rack-mounted in ComNet Model C1 or C2 card cages.

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 shelf mount/stand-alone or rack-mount use – ComFit Packaging

- 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

COMPAK4VB
FVR4C4BS4 + 4 × FVT1C1BS1-M

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

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

LED INDICATORS
- 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

ELECTRICAL & MECHANICAL

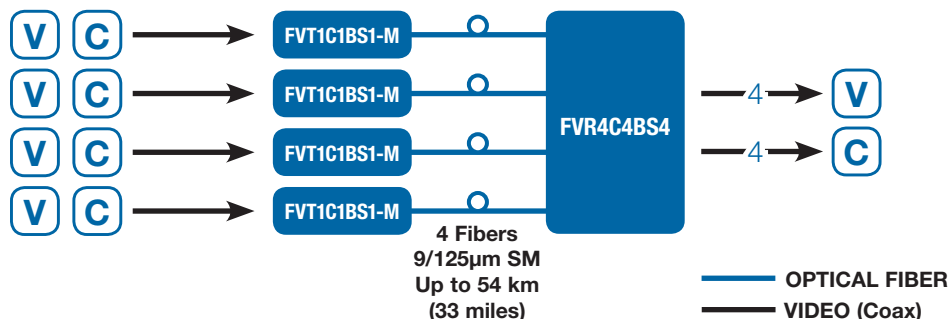|	
Surface Mount Power:	8-15 VDC @ 5W (Receiver)
	5 VDC @ 0.25A (Transmitters)
Rack Mount Power:	From Rack (Receiver only)
Number of Rack Slots:	1
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm) (L × W × H):	
Receiver:	6.1 × 5.3 × 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)*

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

AGENCY COMPLIANCE

FC PART 15 COMPLIANT — CE — cULus E322911 — RoHS COMPLIANT — N24621

MADE IN THE USA

PART NUMBER	DESCRIPTION	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE†	# RACK SLOTS
COMPAK4VB	4-Channel Video + Contact Receiver 4 × 1-Channel Video/Contact Transmitter	4	Single Mode 9/125μm	16 dB	54 km (33 miles)	1
Accessories Options	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included) Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate – With mounting hardware (Optional, order model DINBKT1)					

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

FVT1C1BS1-M × 4 → FVR4C4BS4 → 4 V, 4 C

4 Fibers 9/125μm SM Up to 54 km (33 miles)

─── OPTICAL FIBER
─── VIDEO (Coax)

01.20.12