comnet
Communication Networks

Video with Return Data

FVT/FVR15M2 SERIES

INCLUDED | HARDENED | 1 | 1

The ComNet™ FVT/FVR15M2 series video and data transceiver supports the simultaneous transmission of video and return data over two multimode optical fibers. The module is universally compatible with all major CCTV camera manufacturers and supports RS232 and RS422 data interfaces and all major data protocols. Plug-and-play design ensures ease of installation and no electrical or optical adjustments are ever required.

FEATURES

- AM Video Transmission
- NTSC, PAL, or SECAM compatible
- Full Color Compatibility
- NTCIP Compatible
- Supports RS232 or RS422 Data interfaces
- Transparent to data encoding/compatible with major CCTV camera manufacturers
- No In-field electrical or optical adjustments
- Distances up to 1.5 mi (2.5 km) without repeaters
- Designed for installation in harsh out-of-plant/unconditioned industrial or roadside operating environments (-40° to +75°C ambient). Fully compliant with the environmental requirements of NEMA TS-2 for Traffic Signal Control Equipment
- Voltage transient protection on all power and signal input/output line provide protection from voltage surges and other transient events
- Bi-color LED status indicators confirm operating status
- Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use – ComFit
- May be DIN-rail mounted by the addition of ComNet model DINBKT1 or DINBKT4 adaptor plate.
- Lifetime warranty
- Made in the USA

APPLICATIONS

- CCTV with one-way PTZ Camera Control
- CCTV with Remote Signalization

SPECIFICATIONS

Video

Video Input	1 volt pk-pk (75 ohms)
Bandwidth	5 Hz - 10 MHz
Differential Gain	<5%
Differential Phase	<5˚
Tilt	<1%
Signal-to-Noise Ratio (SNR)	>55 dB @ 10 dB ATTN.
Max. RG-59 COAX Distance	100 m (300 ft) Camera to Fiber Optic Module to maintain 6 Mhz Bandwidth

Data

Data Format	RS232, RS422, Manchester, biphase
Data Rate	DC-115 Kbps (NRZ)

Wavelength

850 nm

Number of Fibers

2

Indicating LEDs

› Video Sync Presence for Each Video Channel
› Transmit Data › Receive Data

Connectors

Optical	ST
Power	Terminal Block
Data	Terminal Block
Video	BNC (Gold Plated Center-Pin)

Power

Surface Mount	8 to 15 VDC
Power Consumption	4 W
Rack Mount	Supplied From Rack

Electrical & Mechanical

Number of Rack Slots	1
Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	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)[1]

AGENCY COMPLIANCE
PART 15 COMPLIANT E322911 N24621

MADE IN THE USA

ORDERING INFORMATION

Part Number	Description	Fibers Required	Fiber	Optical PWR Budget	Max Distance[2]	# Rack Slots
FVT15M2	Video Transmitter/Data Receiver	2	Multimode 62.5/125µm	10 dB	2.5 km (1.5 mi)	1
FVR15M2	Video Receiver/Data Transceiver					
Accessories	DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (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 Kit – With mounting hardware (Optional, order model DINBKT1 or DINBKT4)					

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended.
[2] Distance may be limited by optical dispersion.
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

2 Fibers

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