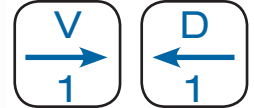
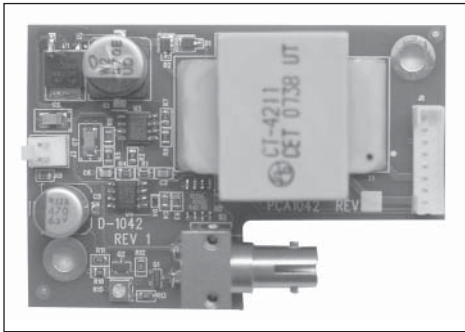


video with return data



Description

The ComNet™ FVTDR101B for the Bosch dome camera system supports the simultaneous transmission of video in one direction and pan tilt and zoom control signals in the reverse direction. The module is compatible with the ComNet FVRDT10M1, which is both a stand alone and rack mount device. The FVTDR101B supports RS-232 and RS-422 data signals from the receiver to the transmitter and outputs RS-422 data into the Bosch dome. Plug-and-play design ensures ease of installation and no electrical or optical adjustments are ever required. The FVTDR101B is camera mounted and powered by the camera's internal power supply. Bi-color (Red/Green) LED indicators on the receiver are provided for rapidly ascertaining equipment operating status. The receiver module is interchangeable between stand-alone or card mount configurations.

Features

- AM video transmission
- Full color compatibility
- Supports RS-232 or RS-422 data interfaces
- Transparent to data encoding
- Compatible with all NTSC, PAL, or SECAM CCTV camera systems
- Full range Automatic Gain Control (AGC)
- Designed to meet the full 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 protection from power surges and other voltage transient events.
- Bi-color (Red/Green) LED status indicators provide indication of critical operating parameters
- Integrated WDM for greater product reliability
- Hot-swappable receiver module
- Lifetime Warranty



FVTDR101B Transmitter, FVRDT10M1 Receiver

video with return data

specifications

VIDEO

Video Input (FVT):	1 volt pk-pk (75 ohms)
Video Output (FVR):	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:	100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth

DATA

Data Interface:	RS-232, RS-422
Data Format:	NRZ, NRZI, Manchester, Bi-phase
Data Rate:	DC-100 Kbps (NRZ)

WAVELENGTH

FVT:	850/1310 nm, Multimode
FVR:	1310/850 nm, Multimode

NUMBER OF FIBERS

1

LED INDICATORS

- Video Present -Data Present

CONNECTORS

Optical:	ST
Power and Data (FVR):	Terminal Block
Video and Sync:	BNC (Gold Plated Center-Pin)

ELECTRICAL & MECHANICAL

Power:	
FVT:	24 VAC from camera @35 mA
FVR:	8-15 VDC @ 100 mA
Rack (FVR):	From Rack
Number of Rack Slots (FVR):	1
Current Protection (FVR):	Automatic Resettable Solid-State Current Limiters
Max. RG59 Cable Length (FVR):	750 ft.
Circuit Board:	Meets IPC Standard
Size (in./cm) (LxWxH)	
FVT:	6.1 × 5.3 × 1.1 in., (15.5 × 13.5 × 2.8 cm)
FVR:	2.8 × 1.9 × .875 (7.5 × 5.0 × 2.5 cm)
Shipping Weight (FVT/FVR):	<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)†

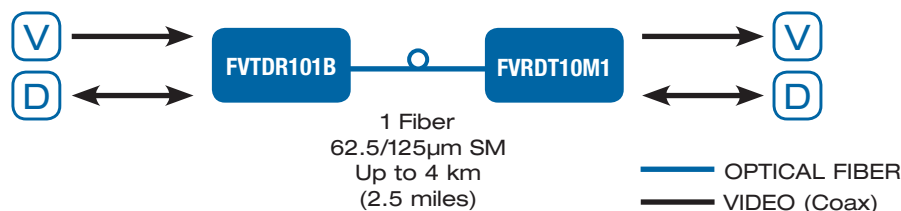
* May be extended to condensation conditions by adding suffix '/C'



MADE IN THE
USA

PART NUMBER	DESCRIPTION	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE [†]	# RACK SLOTS
FVTDR101B	Video Transmitter/Data Receiver (850/1310 nm)	1	Multimode [‡] 62.5/125µm	14 dB	4 km (2.5 miles)	1 (FVR)
FVRDT10M1	Video Receiver/Data Transmitter (1310/850 nm)					
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included for FVR)					
Options	Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)					

† Distance may be limited by optical dispersion. ‡ For 50/125µm fiber, subtract 4 dB from the optical power budget.



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