

# FTV10M Miniature Fiber Transmitter

## SINGLE-CHANNEL DIGITALLY ENCODED VIDEO

### Product Features

- Miniature Module Designed for Use in Pelco® EH2515/EH3512/EH3515 Series Camera Enclosures and in DF5/DF8 Series Fixed Mount Domes, or for Use as a Stand-Alone Module
- 10-Bit Digitally Encoded Video for High-Quality Transmission over a Single Fiber
- 1 Simplex Contact Closure
- Multimode Fiber Support for Distances up to 4 km (2.5 mi)
- Single-Mode Fiber Support for Distances up to 54 km (33.6 mi)
- Exceeds All Requirements for EIA RS-250C Short-Haul Transmission Specifications
- Laser for Transmission of Optical Signals
- Compatible with NTSC, PAL, or SECAM Video Standards
- Designed to Meet NEMA TS 1/TS 2 and Caltrans Traffic Signal Control Equipment Environmental Standards
- LED Status Indicators for Monitoring All Critical Operating Parameters



FTV10S1STM

The **FTV10M** miniature fiber transmitter allows transmission of one composite video channel over one optical fiber. The **FTV10M** transmitter is compatible with the FRV20 Series receivers. The **FTV10M** transmitter is available in multimode and single-mode versions. When using single-mode fiber, the **FTV10M** transmitter and compatible receiver offer an optical power budget of up to 16 dB and provide a transmission distance of up to 54 km (33 mi).

Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. Specially designed for use in EH2515/EH3512/EH3515 Series camera enclosures and in DF5/DF8 Series fixed mount domes, the **FTV10M** transmitter can also be used as a stand-alone module. As a stand-alone module, the unit can be placed on a desktop or can be mounted to a wall.

For stand-alone and wall mount installations, external power is required for the **FTV10M** transmitter. The unit can be powered with the recommended FEXTPS fiber external power supply.

# TECHNICAL SPECIFICATIONS

## MODEL

Transmitter	Compatible Receiver	Fiber Optical Connector Type	Number of Fibers	Wavelength	Optical Power Budget	Maximum Transmission Distance*
<b>Multimode (62.5/125 μm)</b>						
FTV10M1STM	FRV20M2ST	ST	1	1310 nm	12 dB	4 km (2.5 mi)
<b>Single Mode (9/125 μm)</b>						
FTV10S1STM	FRV20S2ST	ST	1	1310 nm	16 dB	54 km (33.6 mi)
FTV10S1FCM	FRV20S2FC	FC	1	1310 nm	16 dB	54 km (33.6 mi)
<p><b>Note:</b> This product requires a fiber installation with a minimum 30 dB connector return loss</p> <p>*Transmission distance will be diminished if additional losses are introduced by the optical connectors, splices and other factors regarding the quality of the fiber. Operating distance of multimode is limited by the characteristics of the fiber bandwidth.</p>						

## VIDEO

Number of Channels	1
Video Input	1.0 Vp-p, 75 ohms
Overload	>1.5 Vp-p
Bandwidth (minimum)	5 Hz to 10 MHz
Differential Gain	<2%
Differential Phase	<0.7°
Tilt	<1%
Signal-to-Noise Ratio	>67 dB typical at maximum optical loss
Max. Coaxial Cable (RG59)	100 m (300 ft) camera to fiber optic module to maintain bandwidth

## ELECTRICAL

Power Consumption	2 W, 28 BTU/H
Power Input	9 to 36 VDC; 12 to 24 VAC
MTBF	>100,000 hours
Optical Emitter	Laser
LED Indicators	Video, contact
Contact Closure Input	Closure to ground, 0.33 mA

## MECHANICAL

Connectors	Terminal block
Power	ST or FC
Optical	BNC (gold-plated center pin)
Video	Terminal block
Contact	Terminal block
Current Protection	Automatic resettable solid-state current limiters
Circuit Board	Meets IPC standard

## GENERAL

Dimensions	5.72 × 7.62 × 2.74 cm (2.25" D × 3.00" W × 1.08" H)
Operating Temperature	-40° to 75°C (-40° to 167°F)
Storage Temperature	-40° to 85°C (-40° to 185°F)
Relative Humidity	0% to 95%, noncondensing
Unit Weight	0.15 kg (0.34 lb)
Shipping Weight	0.90 kg (2.00 lb)

## SUPPLIED ACCESSORIES

Wall mounting bracket (supplied); refer to dimension drawing

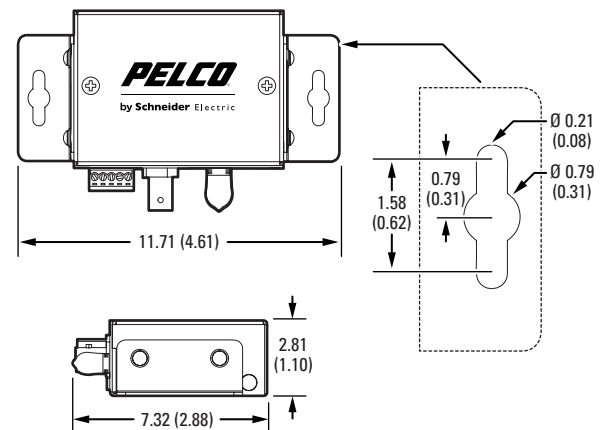
## RECOMMENDED ACCESSORIES

FKIT-DF5DF8	Fiber mount kit for use with DF5 Series and DF8 Series fixed mount domes
FKIT-EH2500	Fiber mount kit for use with EH2500 Series enclosures
FKIT-EH3500	Fiber mount kit for use with EH3500 Series enclosures
FEXTPS	Fiber external power supply with multiple plug adaptors (North American, Australian, United Kingdom, and European); 100 to 240 VAC, 50 to 60 Hz input, 9 VDC output

## CERTIFICATIONS/RATINGS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick
- Designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards

 VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.



### Pelco by Schneider Electric

3500 Pelco Way, Clovis, California 93612-5699 United States

**USA & Canada** Tel (800) 289-9100 Fax (800) 289-9150

**International** Tel +1 (559) 292-1981 Fax +1 (559) 348-1120

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