GE Security

Product Data Sheet

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S730DV

Video and Two-Way Multiprotocol Data

Overview

The revolutionary S730DV fiber link converts analog video to digital video and supports two-way mutiprotocol data transmission over one or two optical fibers. Digital transmission of the video component along with a signal-to-noise ratio >60 dB assures clean, noise-free video at the receiver. Moreover, the S730DV supports all major video formats.

Multiprotocol Data Formats

With multiprotocol data, it is not necessary to order or stock different models to support different data formats. Also, the forward data path (from Tx to Rx) can be set to function as a relay. The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output.

Data Translation

The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output. Data formats are selected during installation and can be easily changed in the field via rotary switch.

Superior Diagnostics

The SMARTS™ diagnostic technology provides an extensive set of built-in diagnostic tools including LEDs that provide a visual indication of the operating status of the equipment.



Standard Features

- **One-way video and two-way multiprotocol data transmission over one or two multimode fibers**
- **10-bit video processing**
- **560 TV lines video resolution**
- **Unique data translation function**
- **Field-selectable data format**
- **13 dB optical budget**
- **Forward relay/contact closure - 1 channel**
- **Supports all major data formats**
- **Meets or exceeds EIA/TIA-250C medium haul standard**
- **Standalone or rack configurations**

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Specifications

Video

- Channels: 1 simplex
- Format: NTSC and PAL
- Input/Output Signal: 1.0 V pk - pk composite
- Bandwidth: 7 MHz
- Signal-to-Noise Ratio: >60 dB
- Video Resolution: 560 TV lines
- Input/Output Impedance: 75 ohms
- Differential Phase: 0.7°
- Differential Gain: 2%

Data

- Channels: 1 duplex
- Formats: RS-232 (3-wire/5-wire), TTL, RS-422, RS-485 (2-wire/4-wire), Manchester, Biphase, SensorNet
- Baud Rate: 250 kbps to 512 kbps (depending on data format)
- Relay/Contact Closure: 1 simplex channel (TX to RX)
- Relay/Contact Rating: 0.5 A at 30 VDC
- Bit Error Rate: <1.0E-9

Optical

- Mode: Multimode
- Optical Budget: 13 dB
- Emitter: LED
- Wavelength: 850 nm and/or 1300 nm (depending on model)
- Operating Distance: Up to 4.0 mi (6.5 km) (depending on model)
- Launch Power: -15 dBm
- Receiver Sensitivity: -28 dBm
- Gain Control: Optical Automatic Gain Control (OAGC)

Electrical

- Input Power, Standalone Units: 24 VAC or 13.5 VDC regulated (transmitter); 13.5 VDC regulated (receiver)
- Input Power, Rack Units: 13.5 VDC regulated
- Current Requirement: 650 mA
- Power Consumption: 8 W
- Power Factor: 6 (rack units only)
- Protection: : Solid-state short circuit protection
- Power Supply: Model 613P (optional)

Environmental

- Operating Temperature: -40 to 167 °F (-40 to 75 °C)
- Maximum Humidity: 95% relative, noncondensing

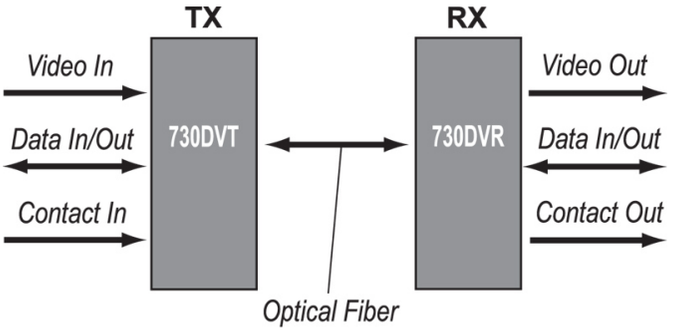
Standards

- Emmissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: ENV50204, EN61000-4-2, -3, -4, -5, -6, -11
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95

Mechanical

- Dimensions (LWD), Standalone Units: Transmitter 4.0" x 4.6" x 2.0"; Receiver 9.31" x 6.33" x 1.15"
- Dimensions, Rack Units: 1 slot (1.0")
- Weight, Standalone Units: Transmitter 0.75 lbs (0.34 kg); Receiver 0.1.36 lbs (0.061 kg)
- Weight, Rack Units: 0.6 lbs (0.27 kg)
- Construction: Aluminum (standalone and rack)

Related Diagram



Ordering Information

Use the Configurator below to select the options available for this product.

S730DV☐-☐ST☐☐

Product Type		Enclosure		No. of Fibers		Optical Wavelength
T	Transmitter	E	Standalone	1	1 Fiber	Add **L** here only if ordering High Order Wavelength (2-Fiber units only)
R	Receiver	R	Rack Card	2	2 Fibers	

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