

Overview

The S761DAV and S7761DAV fiber links provide one-way video transmission combined with two-way audio, two-way multiprotocol data, and two-way contact closure over one or two single mode or multimode fibers.

Digital Processing

Digital processing of the video signal along with a video signal-to-noise ratio >60 dB assures clean, noise-free video at the receiver. Digital processing of the audio signal along with an audio signal-to-noise ratio >90 dB allows the audio output to drive balanced or unbalanced loads and maintain constant audio levels.

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 SMARTSM diagnostic technology provides an extensive set of diagnostic tools including an audio test generator to verify audio channel operation and a video test pattern generator that allows failures to be diagnosed from the monitor. LEDs provide a visual indication of the operating status of the video, audio, data, and contact channels as well as the optical signal strength.

Standard Features

- One-way video and two-way one-channel audio, one-channel multiprotocol data and one-channel contact closure transmission over one or two fibers
- Single and multimode models available
- 9-bit video processing
- 24-bit audio processing
- >600 TV lines video resolution
- Unique data translation function
- Local or remote user-selectable data format - 1 independent data channel
- Supports multiprotocol data formats
- Relay/contact closure - 1 duplex channel
- Built-in video and audio test generators
- Diagnostic LEDs and on-screen monitor displays

One-Way Video, Two-Way Audio, Multiprotocol Data and Contact Closure

S761DAV and S7761DAV



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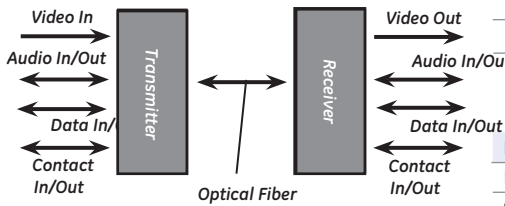
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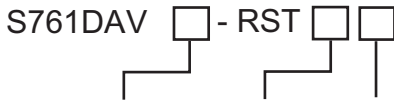
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Related Diagram

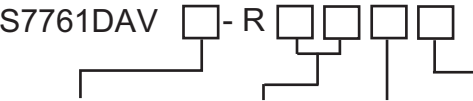


Ordering Information

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



| Product Type | No. of Fibers | Optical Wavelength |
|---------------|---------------|--|
| T Transmitter | 1 Fiber | Add L here only |
| R Receiver | 2 Fibers | if ordering High Order Wavelength (2 Fiber unit) |



| Product Type | Connector Type | No. of Fibers | Optical Wavelength |
|---------------|----------------|---------------|--|
| T Transmitter | FC FC Type | 1 Fiber | Add L here only if ordering |
| R Receiver | ST ST Type | 2 Fibers | High Order Wavelength (2 Fiber units only) |

* Optical Budget based on 62.5 μm fiber, for 50/125 μm fiber subtract 3 dB.

** Operating distance is approximate and assumes best fiber. It will be affected by the type and number of splices in the fiber. Refer to update No. TB00-005, which can be found at www.gesecurity.com

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative.
S761DAV-2006-09-2

| Video | S761DAV (Multimode) | S7761DAV (Single Mode) |
|---------------------------|---|--|
| Channels | 1 simplex | |
| Format | All major formats | |
| Input/Output Signal | 1.0 V pk-pk | |
| Bandwidth | 7.5 MHz | |
| Signal-to-Noise Ratio | >60 dB | |
| Video Resolution | >600 TV lines | |
| Input/Output Impedance | 75 ohms | |
| Differential Phase | <0.7° | |
| Differential Gain | 2% | |
| Audio | | |
| Channels | 1 duplex | |
| Input Signal Level | 17.4 V pk-pk, +18 dBu max. | |
| Input Impedance | 600 ohms or 100 k ohms | |
| Bandwidth | 20 Hz to 20 kHz | |
| Sampling Rate | 52 kHz | |
| Output Signal Level | 17.4 V pk-pk, +18 dBu max. | |
| Output Impedance | 30 ohms unbalanced, 60 ohms balanced | |
| Signal-to-Noise Ratio | >90 dB | |
| Total Harmonic Distortion | <0.006% | |
| 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) | |
| Bit Error Rate | <1.0E-9 | |
| Relay/Contact Closure | 1 duplex channel | |
| Relay/Contact Rating | 1 A at 30 VDC | |
| Optical | | |
| Mode | Multimode | Single Mode |
| Optical Budget* | 13 dB | 18 dB |
| Emitter | Laser | |
| Wavelength | 850 and/or 1300 nm | 1310 and/or 1550 nm |
| Operating Distance** | Up to 3.2 mi. (5.2 km) (depending on model) | Up to 37 mi. (60 km) (depending on model) |
| Electrical | | |
| Input Power | 13.5 VDC regulated | |
| Current Requirement | 500 mA | |
| Power Consumption | 6.75 W | |
| Power Factor | 4 | |
| Protection | Solid-state short circuit protection | |
| Environmental | | |
| Operating Temperature | -40 to 167 °F (-40 to 75 °C) | |
| Maximum Humidity | 95% relative, noncondensing | |
| Mechanical | | |
| Dimensions | 2 slots (2.0") | |
| Weight | 1.2 lbs. (0.54 kg) | |
| Construction | Aluminum | |

AGENCY COMPLIANCE **MADE IN THE USA**



Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

