Model 2829

Digital Video/Audio/Data Fiber Optic Bit-Driver®

Features:
- Digitized 8-bit high resolution video
- Mono or stereo audio - digitized audio (24 KHz sampling)
- Digital data links, TTL, RS232, RS422, RS485
- Data rate - TTL: <150KHz, RS232: 0 - 115.2Kbps, RS422, RS485: 1200 - 115.2Kbps
- Options: NTSC, PAL video standards
  Video formats: Composite(CVBS), S-Video, Component(YPrPb)
- Full color or black & white
- Plug and play
- Status indicators PWR, Audio Overload, Receiver Sync, Test
- Long distance capability - see table
- Video: SNR > 40dB
- Audio: Mic or line input, line and speaker output
- Bidirectional video, audio and data
- Can be bidirectional on one fiber
- Multimode or Single mode optics

Specifications subject to change without notice.

Operation Mode: CCTV Video/Audio/Data
Video Format: NTSC or PAL
Transmitter Input Impedance: 75 ohms bulkhead jack
  Composite: BNC
  S-Video: Mini-DIN
  Component: RCA Style
Input Voltage: 0.5 to 1.6 Vpk-pk
Linearity: 1% Typical
Output Load Impedance: 75 ohms
Operating Wavelength: 820 nanometers (1300 nm option)
Optical Connectors: SC receptacle
Operating Temperature: 0 °C to 50 °C
Metal Enclosure: 7.25" X 7" X 2.0" (18.4 X 17.8 X 5.1 cm)
Weight: 3lbs. (1.4 kg)
Input Power: 110VAC, 220VAC 50/60 Hz, 10-32VDC
220 Volt Version: Model 2829V

Operating Distance for Fiber Optic Cable

<table>
<thead>
<tr>
<th>Fiber Size (Micron)</th>
<th>Attenuation dB/Km</th>
<th>Bandwidth MHz/Km</th>
<th>Distance Meters*</th>
<th>Distance Feet*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>825 nm</td>
<td>1310 nm</td>
<td>825 nm</td>
<td>1310 nm</td>
</tr>
<tr>
<td>50</td>
<td>3.0</td>
<td>1.0</td>
<td>600</td>
<td>1000</td>
</tr>
<tr>
<td>62.5</td>
<td>4.0</td>
<td>1.0</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>10 SM</td>
<td>Unspecified</td>
<td>0.4</td>
<td>Unspecified</td>
<td>Unspecified</td>
</tr>
</tbody>
</table>

SM - Single mode (1300nm) option
* At high data rate, both attenuation and bandwidth of the fiber are considered to determine distance limit.

TYPICAL APPLICATION

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