

LTC 5231/90 and LTC 5234/90 Video Distribution Amplifiers

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Invented for life



- ▶ Compatible with NTSC/PAL video standards
- ▶ No user adjustments needed
- ▶ Supports Bilinx video signals
- ▶ Video presence indicators
- ▶ Video-Loss-Detection output

The LTC 5231/90 and LTC 5234/90 are video distribution amplifiers that provide multiple video outputs identical to the video input signal. Their ample bandwidth easily supports today's high-resolution video signals. A video-loss-detection feature is available for interfacing to external monitoring equipment.

The LTC 5231/90 and the LTC 5234/90 also support Bilinx technology, allowing bidirectional communication through the video cable to access and control Bilinx-enabled devices such as AutoDome® and Dinion® cameras. A maximum of two (2) different types of Bilinx controller models can communicate to a common Bilinx-capable camera. Contact a Bosch Security Systems Sales Representative regarding future product capabilities.

The LTC 5231/90 is a single-channel video distribution amplifier with four (4) video outputs for distribution to other video devices. A front panel LED indicates the presence of video.

The LTC 5234/90 is a 4-channel video distribution amplifier. It has four (4) independent distribution amplifiers, each with one input and three outputs. Front panel LEDs for each distribution amplifier channel indicates the presence of video.

These are indoor products and supplied as desktop units. Rack-mount kits are available from Bosch Security Systems for mounting in a standard EIA 48-cm (19-in.) rack.

Certifications and approvals

| | |
|-------------------------------------|-------------------------------------------------------------|
| Electromagnetic Compatibility (EMC) | Complies with FCC Part 15, ICES-003 and CE regulations |
| Product Safety | Complies with CE regulations, UL, CSA, EN and IEC Standards |

Technical specifications

Electrical

LTC 5231/90: Single-channel

| | |
|------------------------|-----------------------------------|
| Model Number | LTC 5231/90 |
| Rated Voltage | 120/230 VAC, 50/60 Hz |
| Voltage Range | 108 to 264 |
| Power at Rated Voltage | 3.5 W |
| Video Inputs | One (1), fixed 75 Ohm termination |
| Signal Range | 0.7 Vp-p to 1.4 Vp-p |

| | |
|-----------------------|--------------------------------|
| Video Outputs | Four (4) isolated, 75 Ohm |
| Video Gain | Unity +1.0/-0% |
| Signal-to-noise | -72 dB typical |
| Bandwidth-3 dB Point | 33 MHz typical |
| Differential Gain | 0.7% typical |
| Differential Phase | 0.8° typical |
| Field Time Distortion | 2.9% |
| Video-loss Output | Relay contact pair |
| | Rating: 1 A at 40 VAC/VDC max. |
| Indicators | Power on LED (green) |
| | Video presence LED (green) |

Mechanical

| | |
|------------------|--------------------------------------------------------|
| Construction | Steel chassis with sheet metal cover and plastic bezel |
| Finish | Charcoal |
| Size (H x W x D) | 4.1 x 23.4 x 26.2 cm (1.6 x 8.8 x 10.3 in.) |
| Weight | Approximately 1.5 kg (3.4 lb) |

Environmental

| | |
|-----------------------|-------------------------------------|
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Humidity | 20% to 90% relative, non-condensing |

Options

| | |
|-----------------------------|------------------------------|
| EIA 48-cm (19-in.) Rack Kit | LTC 9101/00 |
| | Height: 1 standard rack unit |
| | Width: 1 standard rack unit |

Electrical

LTC 5234/90: 4-channel

| | |
|------------------------|------------------------------------|
| Model Number | LTC 5234/90 |
| Rated Voltage | 120/230 VAC, 50/60 Hz |
| Voltage Range | 108 to 264 |
| Power at Rated Voltage | 5.5 W |
| Video Inputs | Four (4), fixed 75 Ohm termination |
| Signal Range | 0.7 Vp-p to 1.4 Vp-p |
| Video Outputs | Three (3) for each channel, 75 Ohm |
| Video Gain | Unity +1.0/-0% |
| Signal-to-noise | -72 dB Typical |
| Bandwidth-3 dB Point | 33 MHz Typical |
| Differential Gain | 0.6% Typical |

| | |
|-----------------------|-----------------------------------------------------------------------|
| Differential Phase | 0.6° Typical |
| Field Time Distortion | 2.2% |
| Video-loss Output | Relay contact pair for each channel Rating: 1 A at 40 VAC/VDC max. |
| Indicators | Power on LED (green) |
| | Four (4) video presence LEDs (green) |

Mechanical

| | |
|------------------|--------------------------------------------------------|
| Construction | Steel chassis with sheet metal cover and plastic bezel |
| Finish | Charcoal |
| Size (H x W x D) | 4.1 x 23.4 x 26.2 cm (1.6 x 8.8 x 10.3 in.) |
| Weight | Approximately 1.6 kg (3.6 lb) |

Environmental

| | |
|-----------------------|-------------------------------------|
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Humidity | 20% to 90% relative, non-condensing |

BilinX, AutoDome, and Dinion are registered by Bosch Security Systems, Inc. in the US patent trademark office.

Ordering information

LTC 5231/90 Video Distribution Amplifier

1 input, 4 output, half rack, 120/230 VAC, 50/60 Hz, mounting only with LTC 9101/00
Order number **LTC 5231/90**

LTC 5234/90 Video Distribution Amplifier

1 input, 3 output, half rack, 120/230 VAC, 50/60 Hz, mounting only with LTC 9101/00
Order number **LTC 5234/90**

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