

Fibre Optic Transmission System

Mini Video Transmitter

CTF1141-SM

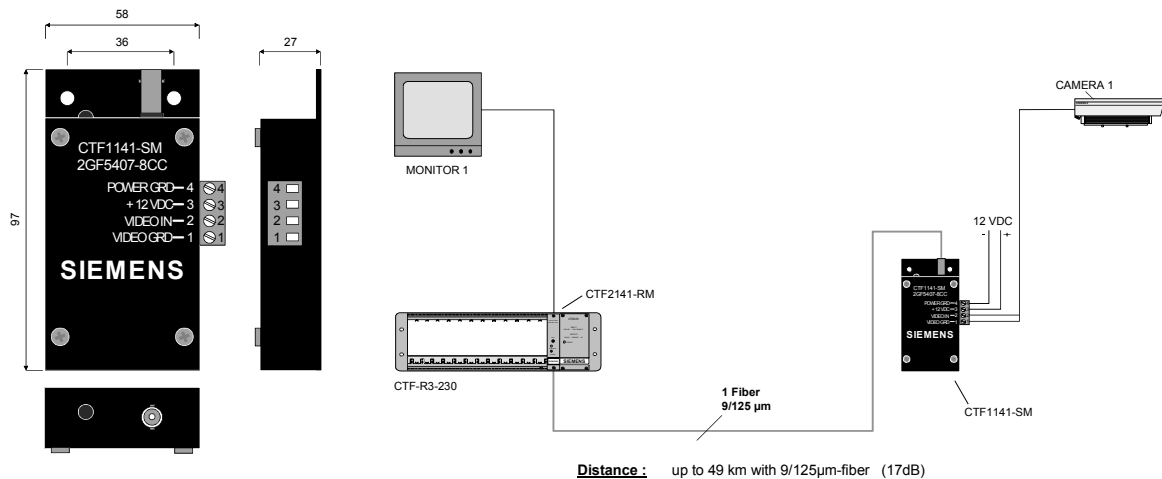
1300 nm, Surface Mount Module

- **FM video transmission reduces ghosting and jitter providing superior video transmission**
- **NTSC, PAL, SECAM compatible**
- **Full colour compatibility**
- **No in-field electrical or optical adjustments required**
- **Power status indicating LED to monitor system performance**
- **Automatic resettable fuses on all power lines**

The CTF1141-SM Mini Video Transmitter transmits a fixed video signal using frequency modulation (FM) on one single mode fibre optic cable. The transmitter is compatible with the Siemens CTF2141-RM receiver. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates a power status indicating LED for monitoring proper system operation.

The CTF1141-SM fibre-optic module can be installed in a camera housing, a connection box or other suitable equipment. The module should be installed in the vicinity of the camera or video source.

Module design and System design (example)



Technical data

| Specifications | |
|----------------------------------|---|
| Video | |
| Video input | 1 V _{PP} (75 ohms) |
| Bandwidth | 5 Hz to 10 MHz |
| Differential gain | < 2 % |
| Differential phase | < 2° |
| Tilt | < 1 % |
| Signal-to-noise ratio | 60 dB minimum (at maximum attenuation) |
| Wavelength | 1300 nm |
| Number of fibres | 1 |
| Fibre multimode | 9/125 μm |
| Optical power budget | 17 dB |
| Output | 25 μW (-16 dBm) |
| Connectors | |
| Optical | ST |
| Power/Video | Terminal block with screw clamps |
| Electrical and mechanical | |
| Power supply | 12 V DC, 200 mA |
| Current protection | Automatic resettable solid-state current limiters |
| Circuit board | Meets IPC Standard |
| Dimensions (W x H x D) | 58 x 27 x 97 mm |
| Weight in kg | 0.3 |
| Environmental | |
| MTBF | > 100,000 hours |
| Operating temperature | -40 to +74 °C |
| Storage temperature | -40 to +85 °C |
| Relative humidity | 0 to 95%, no condensation |

Ordering data

| Type | Part no. | Designation | Weight |
|------------|-------------|--|--------|
| CTF1141-SM | 2GF5407-8CC | Mini Video Transmitter 1300 nm, Single Mode, 1 fibre, Surface mount | 0.3 kg |