



Fibre Optic Transmission System

Single Channel AM Video Receiver

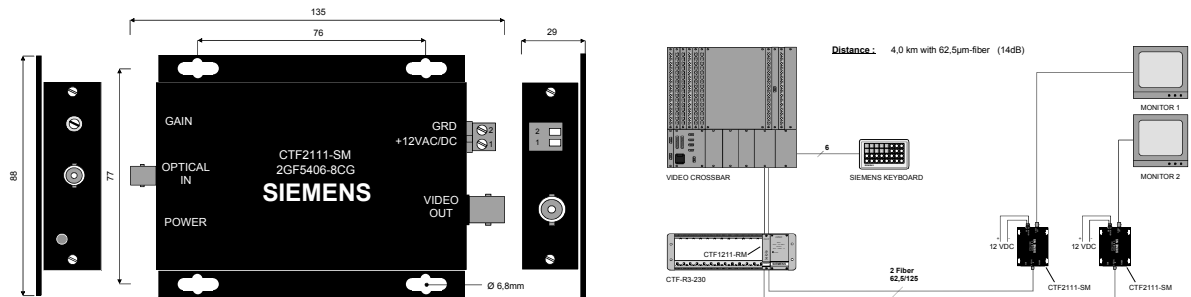
CTF2111-SM

850 nm, Surface Mount Module

- **AM video transmission**
- **NTSC, PAL, SECAM compatible**
- **Full colour compatibility**
- **Utilizes manual gain**
- **Power status indicating LED to monitor system performance**
- **Automatic resettable fuses on all power lines**

The CTF2111-SM video receiver is designed to receive optical signals from a compatible transmitter with a Closed Circuit Television (CCTV) video input, as well as convert the optical signals back to the original electrical video signal. A gain adjustment setting is provided to allow a manual optimisation of the video image. It operates over 62.5/125 μm (or 50/125 μm) multi mode fibre optic cable. Plug-and-Play design ensures ease of installation. The receiver incorporates a power status indicating LED for monitoring proper system operation.

Module design and System design (example)



Technical Data

Specifications

Video

Video input	1 VPP (75 ohms)
Bandwidth	5 Hz to 10 MHz
Differential gain	< 5 %
Differential phase	< 5°
Tilt	< 1 %
Signal-to-noise ratio	60 dB typical, 54 dB minimum
Wavelength	850 nm
Number of fibres	1
Fibre multi mode	62.5/125 µm
Sensitivity	1 µw (-30 dBm)

Optical power budget

with 62.5/125 µm	14 dB
with 50/125 µm	10 dB

Connectors

Optical	ST
Video	BNC (gold plated centre-pin)
Power	Terminal block with screw clamps

Electrical and mechanical

Power supply	DC 10 to 12 V, 150 mA
Current protection	Automatic resettable solid-state current limiters
Circuit board	Meets IPC Standard
Dimensions (W x H x D)	88 x 29 x 135 mm
Weight	0.9 kg

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
CTF2111-SM	2GF5406-8CG	Single channel AM Video Receiver 850 nm, Multi Mode, 1 fibre, Surface mount	0.9 kg