

Fibre Optic Transmission System

Video Transmitter, TTY Receiver

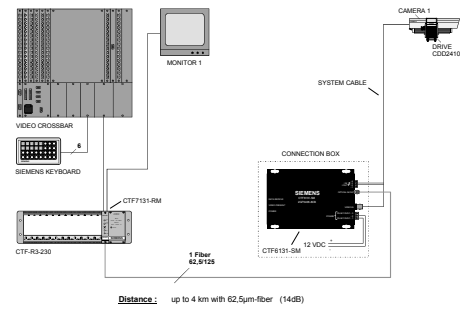
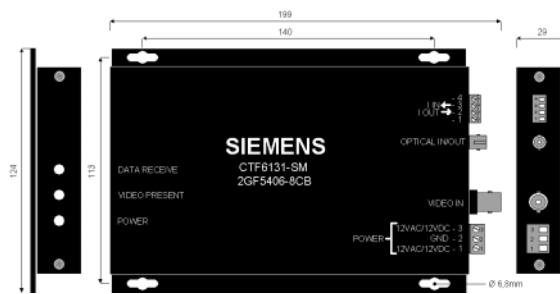
CTF6131-SM

850/1300 nm, Surface Mount Module

- **Compatible with Siemens camera control units**
- **AM video transmission (TX) and data RX (TTY)**
- **NTSC, PAL, SECAM compatible**
- **Full color compatibility**
- **Full range automatic gain control (AGC)**
- **No in-field electrical or optical adjustments required**
- **Power, video presence, data out and AGC status indicating LEDs to monitor system performance**
- **Integrated WDM for greater product reliability**
- **Automatic resettable fuses on all power lines**

The CTF6131-SM video transmitter and current loop receiver supports the simultaneous transmission of video and one way return current loop over one multi mode optical fiber. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments. The module incorporates power, video presence, data (TTY) and AGC status indicating LEDs to monitor proper system operation. Compatible with Siemens camera control units.

Module design and System design (example)



Technical data

Specifications

Data

Data interface 20 mA

Video

Video input 1 V_{PP} (75 ohms)

Bandwidth 5 Hz to 10 MHz

Differential gain < 5 %

Differential phase < 5°

Tilt < 1 %

Signal-to-noise ratio > 55 dB - 10 dB ATTN

Wavelength 850 nm or 850/1300 nm

Number of fibres 1

Fibre multi mode 62.5/125 µm

Optical power budget

with 62.5/125 µm 14 dB

with 50/125 µm 10 dB

Output 25 µW (-16 dBm)

Connectors

Optical ST

Video BNC (gold plated centre-pin)

Power Terminal block with screw clamps

Data Terminal block with screw clamps

Electrical and mechanical

Power supply 11 to 14 V DC, 200 mA, 24 V AC C.T

Current protection Automatic resettable solid-state current limiters

Circuit board Meets IPC Standard

Dimensions (W x H x D) in mm 124 x 29 x 199

Weight in kg 0.9

Environmental

MTBF > 100,000 hours

Operating temperature in °C -40 to +74

Storage temperature in °C -40 to +85

Relative humidity in % 0 to 95, no condensation

Ordering data

Type	Part no.	Designation	Weight
CTF6131-SM	2GF5406-8CB	Video Transmitter, Data Receiver, TTY 850/1300 nm, Multi Mode, 1 fibre, Surface mount	0.9 kg