



Fibre Optic Transmission System

Data Transceiver

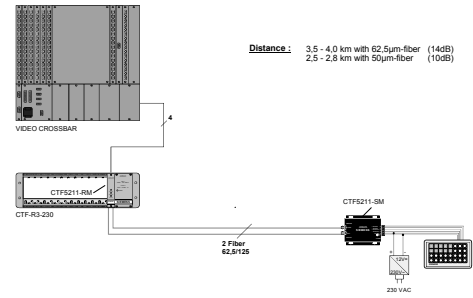
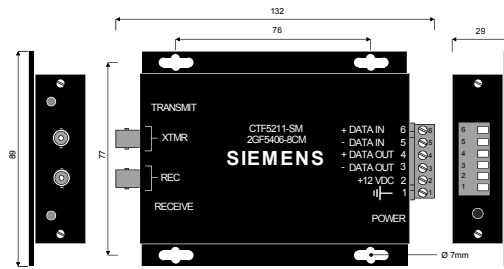
CTF5211-SM

850 nm, Surface Mount Module

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- **Compatible with Siemens camera control units and Siemens keyboards**
 - **Meets NEMA TS-1/TS-2 & Caltrans Specifications (temperature/humidity, shock/vibration, and voltage transient protection)**
 - **Point-to-point topology**
 - **No in-field electrical or optical adjustments required**
 - **Power transmit and receive data status LED indicators**
 - **Integrated WDM for greater product reliability**
 - **Automatic resettable fuses on all power lines**

The CTF5211-SM is designed to function as a fibre optic current-loop transceiver over two optical fibres. Models within this series are available for use with multi mode optical fibre. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments. Each transceiver incorporates power and transmit/receive status indicating LEDs for monitoring proper system operation. The module is compatible with Siemens keyboards.

Module design and System design (example)



Technical data

Specifications

Data

Data interface	Current Loop 20 mA
Wavelength	850 nm
Number of fibres	2
Fibre multi mode	62.5/125 µm 50/125 µm
Output	25 µW (-16 dBm)
Optical power budget	
with 62.5/125 µm	14 dB
with 50/125 µm	10 dB

Connectors

Optical	ST plug connectors
Power/Data	Terminal plug with screw clamps

Electrical and mechanical

Power supply	12 V DC, 150 mA
Current protection	Automatic resettable solid-state current limiters
Circuit board	Meets IPC Standard
Dimensions (W x H x D)	89 x 29 x 132 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
CTF5211-SM	2GF5406-8CM	Data Transceiver TTY 850 nm, Multi Mode, 2 fibres Surface mount	0.9 kg