

Fibre optic transmission systems for CCTV



Digital video optical emitter, A191 model

OPTICAL PARAMETERS		
Optical Emitter	Laser	
Wavelength (see note 1)	1,310 nm (A version) 1,550 nm (B version)	
Type of fibre	Singlemode (9/125 µm) (optionally multimode)	
Mean optical power (see notes 2 and 3)	≥ -4 dBm	
Line rate	155.52 Mbits/s	
VIDEO ELECTRICAL PARAMETERS		
Video specification	PAL, SECAM, NTSC	
Input voltage	1 Vpp ± 3 dB	
Input impedance	75 Ω	
Resolution	10 bits	
Sampling frequency	> 14 MHz	
Bandwidth (-1 dB) (see note 2)	≥ 5.8 MHz	
Peak to peak differential gain (see notes 1 and 2)	< 2.0 %	
Peak to peak differential phase (see notes 1 and 2)	< 2.0 °	
Signal to noise ratio (weighted) (see notes 1 and 2)	> 67 dB	
POWER PARAMETERS		
Power requirements	+10,5 to +14 Vdc	
Power consumption (see note 1)	< 650 mA	
MECHANICAL PARAMETERS		
Format	Plug-in module for 19" rack and 3U high, inside plant box	
Dimensions	10 TE wide, 160 mm deep (without connectors)	
Optical connector	FC/PC	
Video connector	BNC	
Power supply connector	Removable screw-on terminal for 2 contacts	
ENVIRONMENTAL CONDITIONS		
Operating temperature range	-40 °C to +74 °C	
Humidity range	0 a 95% without condensation	
INDICATORS AND ALARMS (see note 4)		
Unit in operation	Green	ON
No video input	Red	NV

Note 1.- Typical values as a production average

Note 2.- Actual values are given in the test sheet. These values are measured according to the test procedure for this device

Note 3.- Consult with manufacturer or distributor for higher optical power units

Note 4.- LEDs on the front side

EQUIPOS DE TELECOMUNICACIÓN OPTOELECTRÓNICOS, S.A.

EQUITEL

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