

Fibre optic singlechannel CCTV transmission



Analogue video optical emitter and asynchronous data transceiver, A172 model

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08.A172.2.0S

OPTICAL PARAMETERS

Optical emitter	Laser (for singlemode and multimode fibers)
Optical receiver	PIN (for singlemode and multimode fibers)
Output wavelength (see note 1)	1,550 nm (singlemode); 1,310 (multimode)
Input wavelength (see note 1)	1,310 nm (singlemode); 850 nm (multimode)
Type of fibre	1 x singlemode (A version); 1 x Multimode (62.5/125 μ m)
Average optical power (see note 2)	\geq -4 dBm (singlemode); \geq -4 dBm (multimode)
Sensitivity (see notes 2 and 3)	\leq -35 dBm (singlemode); \leq -25 dBm (multimode)

VIDEO ELECTRICAL PARAMETERS

Video specification	PAL / NTSC
Input voltage	1 V _{pp} (\pm 3 dB)
Input impedance (see note 1)	75 Ω (high impedance as an option)
Peak to peak differential gain (see notes 1 and 2)	< 3.5 %
Peak to peak differential phase (see notes 1 and 2)	< 3.5 °
Bandwidth (see note 2)	\geq 5.8 MHz
Signal to noise ratio (weighed) (see notes 1 and 2)	> 60 dB

DATA ELECTRICAL PARAMETERS

Type of signal (user configurable)	RS-232, RS-422, RS-485 (2 or 4 w)
Maximum binary rate	115.2 kbit/s
Operation mode	Full-duplex

POWER PARAMETERS

Power requirements	12 Vdc
Power consumption (see note 1)	< 3.5 W

MECHANICAL PARAMETERS

Format	Stand-alone / DIN rail / module for 19" housing
Dimensions	145 x 95 x 25 mm (without connectors)
Optical connector	ST
Data connector	8 poles screw-in terminal
Video connector	BNC

ENVIRONMENTAL CONDITIONS

Operating temperature range	-40 °C to +74 °C
Humidity range	0 to 95% without condensation

INDICATORS AND ALARMS (see note 4)

Unit in operation	Green	ON
Data transmission / reception	2 x Green	Tx, Rx

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.- Guaranteed value for a BER < 10⁻⁹ in all the operating range

Note 4.- LEDs on the front side

EQUIPOS DE TELECOMUNICACIÓN OPTOELECTRÓNICOS, S.A.

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