

Fibre optic singlechannel CCTV transmission



**Analogue video optical receiver and
asynchronous data transceiver, A174 model**

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08.A174.2.1S

OPTICAL PARAMETERS

Optical emitter	Laser (singlemode); VCSEL (multimode)
Optical receiver	PIN (singlemode and multimode)
Output wavelength (see note 1)	1,310 nm (singlemode); 850 nm (multimode)
Input wavelength (see note 1)	1,550 nm (singlemode); 1,310 (multimode)
Type of fibre	1 x singlemode (A version); 1 x Multimode (62.5/125 μ m)
Average optical power (see note 2)	≥ -4 dBm (singlemode); ≥ -4 dBm (multimode)
Sensitivity (see note 2)	≤ -14 dBm (singlemode); ≤ -13 dBm (multimode)

VIDEO ELECTRICAL PARAMETERS

Video specification	PAL / NTSC
Output voltage (see note 1)	1 Vpp
Output impedance (see note 1)	75 Ω
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)	≥ 5.8 MHz
Signal to noise ratio (weighed) (see notes 1, 2 and 3)	> 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 supply	12 Vdc / Internal (stand-alone / housing option)
Power consumption (see note 1)	< 2 W

MECHANICAL PARAMETERS

Format	Stand-alone / Module for 19" rack and 3U height
Dimensions	160 x 130 x 65 mm box (stand-alone option) 5 TE wide x 160 mm deep (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.- Value at receiver sensitivity in all the operating range

Note 4.- LEDs on the front side

EQUIPOS DE TELECOMUNICACIÓN OPTOELECTRÓNICOS, S.A.

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