

Fibre optic singlechannel CCTV transmission



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

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05.A174.1.0S

OPTICAL PARAMETERS		
Optical emitter	VCSEL	
Optical receiver	PIN	
Output wavelength (see note 1)	850 nm	
Input wavelength (see note 1)	1,310 nm	
Type of fibre	1 x Multimode (62.5/125 μm)	
Average optical power (see note 2)	≥ -4 dBm	
Sensitivity (see note 2)	≤ -13 dBm	
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	19.2 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	145 x 95 x 25 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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