

Fiber optic single channel CCTV transmission



Analogue video optical receiver and asynchronous data transceiver, A178 model

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06.A178.1.1S

OPTICAL PARAMETERS

Optical emitter	LED
Optical receiver	PIN
Output / Input wavelength (see note 1)	850 nm.
Type of fibre	2 x Multimode (62,5/125 μ m)
Average optical power (see note 2)	\geq -15 dBm
Receiver sensitivity (see notes 2 and 3)	\leq -15 dBm

VIDEO ELECTRICAL PARAMETERS

Video specification	PAL / NTSC
Output voltage (see note 1)	1 Vpp
Output impedance (see note 1)	75 Ω (high impedance optional)
Peak to peak differential gain (see notes 1 and 2)	$<$ 3,5 %
Peak to peak differential phase (see notes 1 and 2)	$<$ 3,5 $^{\circ}$
Bandwidth (see note 2)	\geq 5,8 MHz
Signal to noise ratio (weighed) (see notes 1 and 2)	$>$ 60 dB

DATA ELECTRICAL PARAMETERS

Electrical interface (user configurable)	RS-232, RS-422, RS-485 (2 or 4 w)
Maximum binary rate	$>$ 128 kbit/s (RS-232/422), $>$ 19,2 kbit/s (RS-485)
Operation mode	Full-duplex

POWER PARAMETERS

Power requirements	12 Vdc / Internal (stand-alone / housing option)
Consumption (see note 1)	$<$ 2 W

MECHANICAL PARAMETERS

Format	Stand-alone / Module for 19" housing (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 (functioning)	-40 $^{\circ}$ C to +74 $^{\circ}$ 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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