

Fibre optic transmission systems for CCTV



**Digital video and bi-directional auxiliary
signals optical receiver, A195 model**

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08.A195.1.0S

OPTICAL PARAMETERS

Optical Emitter / Receiver	Laser / PIN (singlemode); VCSEL / PIN (multimode)
Output / input wavelength (see note 1)	1,550 / 1,310 nm (singlemode); 850 / 1.310 (multimode)
Number and type of fibre	1 x singlemode; 1 x multimode (62,5/125 μ m) C version
Average optical power	\geq -4 dBm
Receiver sensitivity (see note 2)	\leq -29 dBm (singlemode); \leq -17 dBm (multimode)
Line rate	155.52 Mbits/s

VIDEO ELECTRICAL PARAMETERS

Output voltage	1 V _{pp} (75 Ω)
Resolution	10 bits
Bandwidth (-1 dB)	\geq 5.8 MHz
Peak to peak differential gain / phase (see note 1)	< 2.0 % / 2.0 °
Signal to noise ratio (weighted) (see note 1)	> 67 dB

AUXILIARY SIGNALS ELECTRICAL PARAMETERS

Number of auxiliary channels	3 (Bi-directional)
Type of auxiliary channels available	1x Digital audio, 1x Asynchronous data, 2x Dry contacts
Type of audio signal	Balanced audio (20 Hz – 20 kHz, 0 dBm nom. +10 dBm max)
Resolution / Sampling frequency	16 bits / > 55 kHz
Signal to noise ratio (weighted)	\geq 80 dB
Input / output impedance (see note 1)	600 Ω or high impedance / 600 Ω or low impedance
Type of data signal (user configurable)	RS-232, RS-422, RS-485 (2 or 4 w)
Maximum binary rate	> 128 kbits/s (RS-232/422), > 19.2 kbit/s (RS-485)
Type of input / output contact	Active by earth closing / dry contact

POWER PARAMETERS

Power requirements / Power consumption (see note 1)	Internal of P40W housing, <8 W
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MECHANICAL PARAMETERS

Format	Plug-in module for 19" rack and 3U high (optional: stand-alone)
Dimensions	10 TE wide, 160 mm deep (without connectors)
Optical connector	FC/PC (singlemode); ST (multimode)
Video / auxiliary signal / power supply connector	BNC / 8-pole removable screw-on terminal / 2 contacts

ENVIRONMENTAL CONDITIONS

Operating temperature range (in operation)	-40 °C to +74 °C
Humidity range	0 a 95% without condensation

INDICATOR AND ALARMS (see note 3)

Unit in operation	Green	ON
No video at the remote input	Red	NV
Absence of input optical power	Red	APO
For each auxiliary channel	2 x Amber	A1-A, A1-B, ..., A3-A, A3-B
Audio	A	Excessive input signal
Data	A/B	Data Output / Input
Contacts	A/B	Output relay 1/2 closed

Note 1.- Typical values as a production average

Note 2.- Value guaranteed for a BER <10⁻⁹ in all the operating range

Note 3.- LED's on the front side

EQUIPOS DE TELECOMUNICACIÓN OPTOELECTRÓNICOS, S.A.

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