TRO-1/400 TWISTED PAIR VIDEO RECEIVER

The TRO-1/400 Receiver allows to power one TRN-1/400 Transmitter (DC) and to receive video signal from one TRN-1/400 Transmitter by twisted pair cable (UTP, STP, FTP). The Receiver is powered by 24V or 29V AC from external AC power pack.

Video signal from camera is supplied to the TRN-1/400 Transmitter input, and transmitted by twisted pair cable to the TRO-1/400 Receiver. The transmitter unit and the receiver unit adapt 75 ohms coaxial cable impedance to twisted pair cable impedance. It guarantees video signal transmission up to 400 metres.

The TRO-1/400 Receiver supplies un-stabilized voltage (max. 40V DC) to twisted pair cable, and the TRN-1/400 Transmitter converts it into 12V DC stabilized voltage. It alows to power supply the camera and the thermostat.
Let's assume that camera power consumption is 250mA and thermostat (TT-12E) power consumption is 500 mA. The maximal distances for voltage propagation are following:

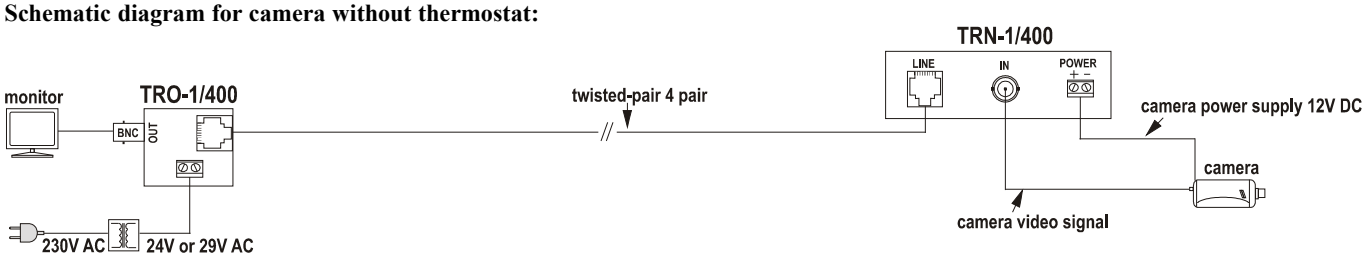
LOAD	MAXIMAL DISTANCE AT ~24V AC	MAXIMAL DISTANCE AT ~29V AC
1 camera 250mA	1080 metres	1600 metres
1 camera 250mA + thermostat 500mA	260 metres	500 metres

For distances greater than 400 metres we have to use the video signal amplifier.

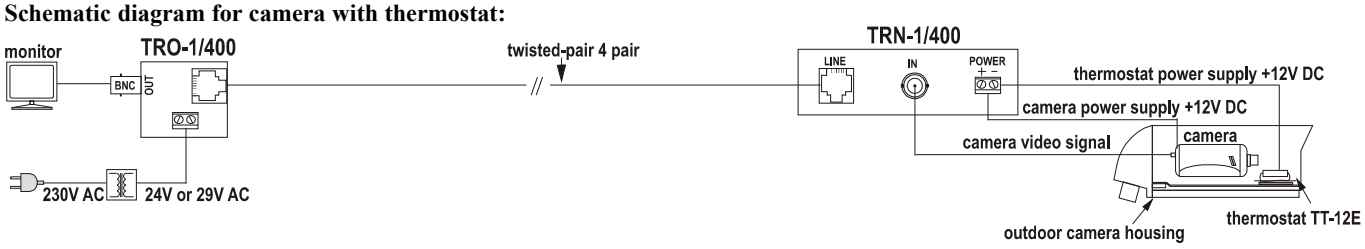
SPECIFICATION:

Video Bandwidth	to 50MHz
Insertion Loss	-0,5 dB (at f=5MHz)
Coaxial Cable Output Impedance	75 ohms
Twisted Pair Cable Impedance	100 ohms
Coaxial Cable Output Socket Type	BNC
Twisted Pair Cable Socket Type	RJ-45 (8 pins, 4 pair)
Maximal Power Supply	AC 29V / 1A
Maximal Output Voltage	40V DC
Maximal Output Current (40V)	1A
Fuse 5x20	2A/250V
Weight	100g
Size	117x64x30 mm

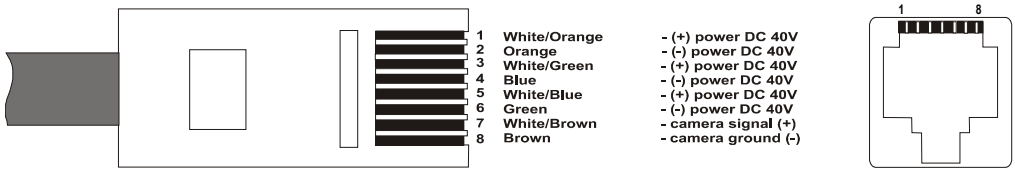
Schematic diagram for camera without thermostat:



Schematic diagram for camera with thermostat:



RJ-45 CONNECTOR SPECIFICATION
(compliance with standard T568B):



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