DSE
OWNER'S MANUAL

For CCTV cameras and video devices generally surges coming from the video cabling can have very serious destructive effects. Electric machines, lighting systems, atmospheric discharges, short circuits, can generate voltage spikes of varying length and nature capable of irreparably destroy, in a fraction of a second, any camera, often without

leaving a   track   evident.
The presence of occasional surges in a CCTV system generates frequent damage of the camera with sudden disappearance of the video signal, without the occurrence of anomalous phenomena of notice. Often the high amount of faults is user erroneously attributed to a poor quality of the materials. The devices

of   DSE protection are designed specifically for the protection circuit cameras
closed,   both   to
Traditional cabling over coaxial cable of twisted pair,

able to
to protect the camera from the majority of the electrical problems that may damage the video circuit.

The taking of land

All surge protection does not require power, but they need a good earth. Without the grounding protection it is not able to perform its function.

Check if possible with a tool that the system ground to be effective.

RE-PR1 - video input BNC Protection

The security module RE-PR1 is connected to the end of the coaxial video cable, immediately before the device that is meant

to protect   (camera,   monitor,
VCR, etc.). For this purpose is provided with a female BNC connector for connection to the cable and a male BNC connector for

the   connection
equipment. There is also a ground cable which must be connected to an efficient earthing so that the device can exert protection in an appropriate manner.

In case of overvoltage, the RE-PR1 protection is able to intervene in 100 ns. and interrupt fault currents up to 5000A. Protection is able to withstand about 300 to 100 A surge before needing to be replaced.

The device requires no power.

RE-PR2 - Video Input protection of RJ45 and twisted pair CAT5

cable. The security module RE-PR2 has the same security features of the RE-PR1 model, but it is developed to protect video transmission over twisted pair cables is performed using the appropriate balun converters . E 'can use the RE-PR2 form both with passive balun converters RE-BNCRJ1 that active.
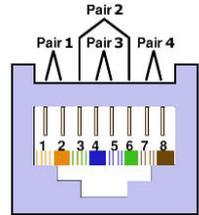

The module RE-PR2 CAT5 cable connects between the incoming and the RE-BNCRJ1 / 2 converter, in turn connected to the device to be protected

(Camera, monitor, VCR, etc.). For this, the module has two RJ45 sockets (IN-OUT). It 'also included a ground wire which must be connected in order

the   device can
exercise adequately protection. The

device   not   It requires
supply.

CAUTION

In the RJ45 connector, as in the CAT5 cable, there are 4 pairs of wires. The RE-PR2 module exerts protection only on the pair 2 illustrated in the figure (pin 3-6). Take care when connecting the pair leading the video signal. This protection NOT 'SUITABLE TO PROTECT DATA CABLES LAN.

RE-PR2NET - Ingress Protection Network LAN RJ-45

The security module RE-PR2NET protects IP cameras and generally all network devices connected over CAT5 or CAT6 data cable.

The device has an input named IN to which to connect the network cable incoming and an output OUT at which connect the device to be protected. See the following example installation.

As always is available the earth cable which must be connected for the device to exercise adequately protective.

RE-PR3 - Protection BNC video input and RS485 serial line for

speed dome cameras. The security module RE-PR3 is analogous to the RE-PR1 module but provides, in addition to the BNC video signal protection, also the protection of an RS485 data line, a rule used for controlling speed-dome cameras.

The device connects between the video cable / RS485 incoming and the speed dome camera and protects both the video circuit

that   the   control   of the   tilt.
There are 2 female BNC connectors (IN / OUT), 2

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video line protection

terminals DATA IN and DATA OUT terminals 2. E 'also present a terminal of earth to be compulsorily connected so that the device can

exercise   there   protection   so as   adequate.
The device requires no power.

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