

Telephone & Power Line Surge Suppressor ELK-100

Two Channel - High Performance

FEATURES:

- Utilizes Solid State Surge Suppression
- Protects Incoming Telephone Line
- Protects AC Input From Transformer
- Clamps Line-To-Line & Line-To-Ground
- Self-restores After Surges Within Rating
- RJ31/38X 8 Position Modular Jack
- Rugged, Easy To Mount Plastic Case
- Packed In Reusable Poly Storage Box

SPECIFICATIONS:

- Response Time: < 1 Nanosecond
- Breakover Voltage:
 - Telephone Line: 300 Volts
 - AC Power Line: 50 Volts
- Peak Pulse Current:
 - Telephone Line: 100 Amps
 - AC Power Line: 50 Amps
- Ground Wire: 24" - 14 Gauge Stranded
- FCC Reg. No. 5K6USA-23140-XP-N
Ren No. 0.0B



ELK PRODUCTS, INC.® PO Box 100 Hildebran, NC 28637
MADE IN USA

ELK-950

Telephone And
Power Line Surge Suppressor



APPLICATION:

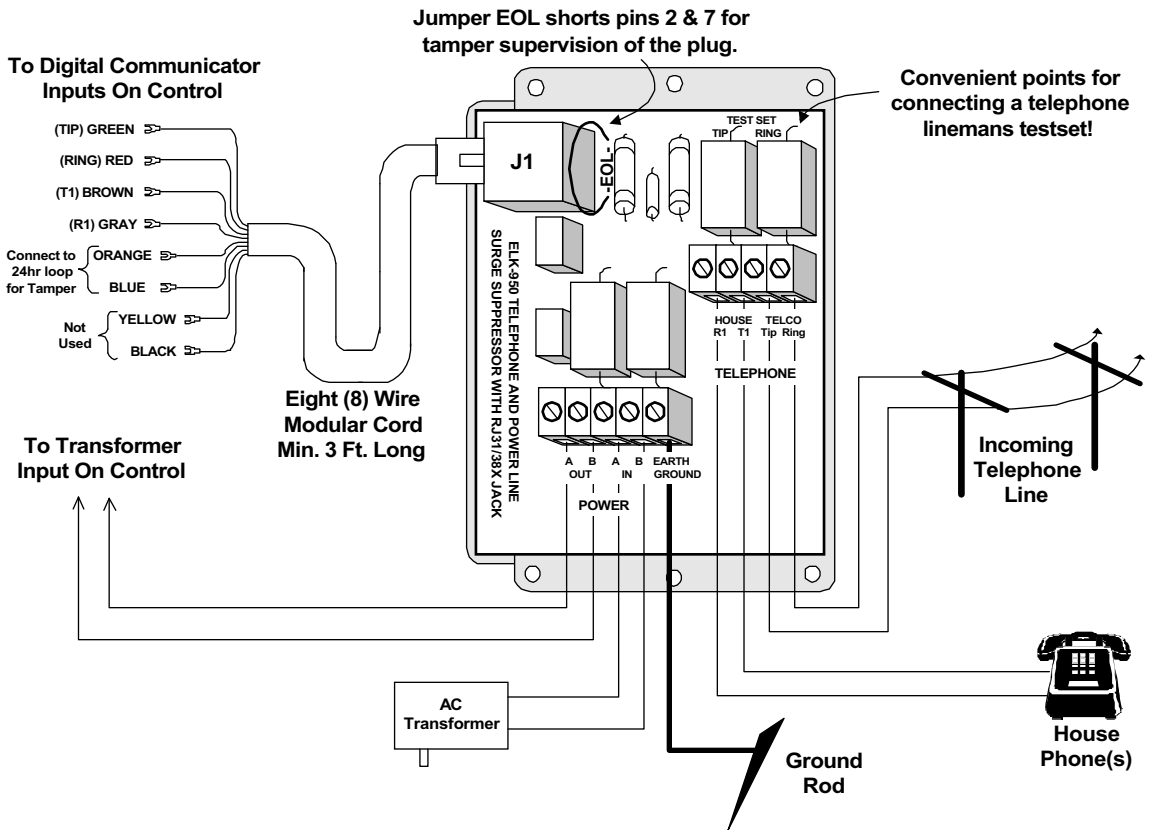
The **ELK-950 Telephone and Power Line Surge Suppressor** is specially designed to protect residential and commercial electronic security control equipment from damaging transients on the Power input line, the telephone line, and serves as the RJ-31/38X telephone connection block. Other telephone equipment connected behind the ELK-950 will also be protected from transients originating from the outside telephone line. Each unit is packaged in a re-usable poly storage box.

CONNECTIONS

- EARTH GROUND** This terminal must be connected to a good quality earth ground using a 14-16 gauge wire. The best choice of ground is : Copper or galvanized ground rod (6' or longer) driven into the ground OR a copper cold water pipe. Do not use PVC pipe! An acceptable but less preferred ground is the screw on an electrical outlet.
- TELCO** **RING** - Connect one side of the **Incoming Telephone Line** pair. (Commonly colored RED)
TIP - Connect the other side of the **Incoming Telephone Line** pair. (Commonly colored GREEN)
- HOUSE** **R1** - Connect one side of the pair returning to the **House Phone(s)**. (Commonly colored BLACK)
T1 - Connect the other side of the pair returning to the **House Phone(s)**. (Commonly colored YELLOW)
- J1 - 8 PIN MODULAR JACK** Connect an 8 wire modular telephone cord from **J1** to the **Digital Communicator**. Studies have found that the cord should be at least 3 feet long for best surge suppression. The pin assignments of J1 are: 4 & 5 are RING and TIP going to the control. 1 & 8 are R1 and T1 returning from the control. 2 & 7 are shorted together by jumper **EOL**, creating a closed circuit tamper loop to supervise the modular plug. This loop may be converted to a resisted EOL circuit by cutting the jumper and attaching the required resistor in series with the jumper.

- POWER (DATA)** Optional! Provides transient/surge suppression for the low voltage transformer power line input to the control.
- CAUTION: UNPLUG TRANSFORMER UNTIL ALL CONNECTIONS ARE COMPLETE!**
- IN (A & B)** - Connect the two wires coming from the **Transformer**. **Max. input is 24 volts AC.**
OUT (A & B) - Connect the two wires going to the **Control**. Polarity is not important with the AC.

NOTE: The POWER terminals may alternately be used for surge protecting data transmission wires such as a keypad or zone expansion bus, as long as any measurable voltage on the two data wires is less than 24 volts. Connect the data wires to the IN and OUT terminals while observing polarity using the A & B markings.



FIVE YEAR LIMITED WARRANTY

Elk Products, Inc. ("Manufacturer") warrants to the original purchaser of this product (the "Customer") that, for a period of five years from date of manufacture, this product is free from defects in material and workmanship. Manufacturer's obligations under this Limited Warranty shall be limited to repairing or replacing, at its option, free of charge, this product when returned to Manufacturer freight prepaid. Manufacturer shall have no obligation under this Limited Warranty or otherwise if (1) this product has been damaged by negligence, accident, mishandling, lightning or flood, or other Acts of God, (2) this product has not been operated in accordance with its operating instructions, (3) this product has been altered or repaired by anyone outside Manufacturer's authorized facilities (4) adaptations or accessories have been made or attached to this product which, in Manufacturer's sole determination, have affected the performance, safety or reliability of this product.

If this product should malfunction or fail during the warranty period, contact Manufacturer or authorized distributor for a Return Authorization (RA) number. Returned product must include a complete description of the problem, along with the RA number clearly marked on outside of the package. Manufacturer will not be responsible for any unnecessary items included with returned product.

THIS WARRANTY IS THE CUSTOMER'S EXCLUSIVE WARRANTY FOR THIS PRODUCT. MANUFACTURER SPECIFICALLY DISCLAIMS ANY AND ALL OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY. MANUFACTURER SHALL NOT BE LIABLE IN TORT, INCLUDING LIABILITY IN NEGLIGENCE OR STRICT LIABILITY, AND SHALL HAVE NO LIABILITY AT ALL FOR INJURY TO PERSONS OR PROPERTY. MANUFACTURER'S LIABILITY FOR FAILURE TO FULFILL ITS OBLIGATION UNDER THIS LIMITED WARRANTY OR ANY OTHER LIABILITY UNDER OR IN CONNECTION WITH THIS PRODUCT SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE RECEIVED BY MANUFACTURER FOR THIS PRODUCT. THE REMEDIES STATED IN THIS LIMITED WARRANTY ARE THE CUSTOMER'S EXCLUSIVE REMEDIES AGAINST MANUFACTURER REGARDING THIS PRODUCT. UNDER NO CIRCUMSTANCES SHALL MANUFACTURER BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS AND REVENUES, INCONVENIENCE OR INTERRUPTIONS IN OPERATIONS, OR ANY OTHER COMMERCIAL OR ECONOMIC LOSSES OF ANY KIND. THESE LIMITATIONS AND DISCLAIMERS ARE NOT MADE BY MANUFACTURER WHERE PROHIBITED BY LAW. SOME STATES PROHIBIT LIMITATIONS OF WARRANTIES AND THE CUSTOMER MAY HAVE ADDITIONAL RIGHTS IN THOSE STATES.