The electrical bird control system E-Pin prevents birds from roosting in protected areas. It consists of two parallel stainless steel wires. Through an electrical power supply, electricity is funneled into the system, which disperses birds like an electric fence. There is no danger for birds or human beings touching the system incidentally.

**Components**
- Stainless steel pins on pipe
- Wires, tension spring, wire connectors, screws, other materials for installation (screw anchors, nails)
- Plastic knuckles
- Stainless-steel clips
- Connection sleeves 3x30 copper or stainless-steel
- Insulation cable black
- Generator

**Material**
- Stainless steel 1.4301
- UV-protected polycarbonate

**Width**
- 25 mm

**Protected area (depth)**
- 100 mm (2 rows)

**Electricity**
- 6,700 V (system idle)
- 8,000 V (Maximum)
- 3,800 V at 500Ohm load

**Installation**
- The electrical system is glued to the surface with a suitable glue or fixed directly to the valve of the roof gutter with buttstraps. The generator must be connected by client to the power supply or can be supplied by an additional solar module. The generator and the poles are connected with high insulation cables. The power supply can be funneled into the system anywhere, a closed circuit is not necessary.

**Accessories**
- Rain guard
- Lightning Switch
- Stainless Steel Wire
- Tension Spring, stainless steel
- Warning Sign
- Insulation cable black
- Connection sleeves 3x30 copper or stainless-steel
- Plastic knuckles
- Stainless-steel clips
- Screw anchors, nails

**Liability advise**
TONI Bird Control Solutions GmbH & Co. KG products are long established and proven bird control products. However, TONI products can only work effectively as part of an overall and planned programme of bird control. This includes hygiene management and the use of professionally trained personnel. Without limitation, TONI Bird Control Solutions GmbH & Co. KG will not accept liability for any consequences as a result of poor equipment maintenance, misuse, inappropriate use, lack of operative training, failure of due diligence or through lack of prior project consultation. In some countries, the use of TONI products may require an official permit for building regulation or nature conservation. TONI will not accept liability for any consequences as a result of missing approvals.

**Tonigrafie**
- Power Supply, 2-wire
- Surge Generator
- Digital System Tester
- Warning Sign
- Rain Guard
- Lightning Switch
- Lightning Choke
- Stainless Steel Wire
- Tension Spring, stainless steel
- Warning Sign
- Insulation cable black
- Connection sleeves 3x30 copper or stainless-steel
- Plastic knuckles
- Stainless-steel clips
- Screw anchors, nails

**Drawing**
- Name: Electrical System E-Pin 2 pin
- Function: The electrical bird control system E-Pin prevents birds from roosting in protected areas.
- Components: Stainless steel pins on pipe, Wires, tension spring, wire connectors, screws, other materials for installation (screw anchors, nails), Plastic knuckles, Connection sleeves 3x30 copper or stainless-steel, Insulation cable black, Generator.
- Material: Stainless steel 1.4301, UV-protected polycarbonate.
- Width: 25 mm.
- Protected area (depth): 100 mm (2 rows).
- Electricity: 6,700 V (system idle), 8,000 V (Maximum), 3,800 V at 500Ohm load.
- Installation: The electrical system is glued to the surface with a suitable glue or fixed directly to the valve of the roof gutter with buttstraps. The generator must be connected by client to the power supply or can be supplied by an additional solar module. The generator and the poles are connected with high insulation cables. The power supply can be funneled into the system anywhere, a closed circuit is not necessary.
- Accessories: Rain guard, Lightning Switch.
- Installation service: System control twice within the maintenance period.