



DeTekion

Electro-Guard 3750

NON-LETHAL ELECTRIFIED FENCE

Introduction

DeTekion Security Systems, Inc. introduces the latest generation of Non-Lethal Electrified Fence. The Electro-Guard 3750 System operates on dual electrifiers so that each adjacent conductor wire operates from different electrifiers. An alarm condition is signaled when a wire is shorted to ground, a wire is cut, or when any adjacent conductor wires touch. The Electro-Guard 3750 System employs the latest technology for locating an alarm. The Balanced Current System (BCS) provides the Central Control Station the capability to identify an alarm condition to within 50 meters of its occurrence.

Operation

The Electro-Guard 3750 monitor normally operates in Non-Lethal stun alarm surveillance mode. This mode provides a highly effective shock that activates an alarm condition. On alarm detection, the system can indicate within 50 meters along the fence line where the alarm occurred. The Electro-Guard 3750 may also operate in either a full time monitor mode or a full time Non-Lethal mode. This provides flexibility for changes in the legal climate or circumstances at the facility.

Features

- Formidable Physical and Psychological Barrier
- Environmentally Friendly in Non-Lethal Alarm Condition
- Full time Monitor or Full time Non-Lethal Modes Available
- Latest Generation Non-Lethal Electrifier Technology
- Dual Loop Electrifiers Provide Redundancy
- Reliable Detection Capability
- Superior Delay Effect
- Weather Resistant and Robust Construction
- Highly Defeat Resistant
- Balanced Current System Allows Zone Indication to Within 50m
- Up to a 5km of a 12 wire Fence May Be Electrified with One Electrifier Unit
- Highly Resistant to Lightning Strikes



Electrifiers

The Non Lethal electrifiers (energizers) supply voltage to the two wire loops. These loops are energized out of phase. The Non-Lethal energizer is compliant to the International Electrotechnical Committee Specification TEC 336-2-76. In this Non-Lethal mode the energizer's output is a pulsating DC voltage adjustable to 10k V between fence loops, -5kV on one loop, +5kV on the other. The maximum loop length that can operate in this mode with an energizer delivering 8 Joules measured into a 500-ohm non-inductive load is 18 miles (30km) regardless of the wire type. One energizer can *therefore* energize a 1.65 mile (2.5km) 24-wire fence, or a 3 mile (5km) 12-wire fence. In both Monitor and Non-Lethal modes alarms will be reported if the wires are cut, grounded, or earthed. The system operates in one mode at a time, and can be programmed to switch between the modes automatically.



Controller Module

The Electro-Guard 3750 Controller constantly monitors every wire along the entire loop length for an alarm condition. The Controller Module can pinpoint an alarm within 50 meters of the occurrence. The Controller Module will display visually the location of the alarm by either providing and indications of the distance the alarm comes from the energizer or by providing a predetermined zone indication. The Controller Module will transmit this data serially via a RS 232 port to a compatible Monitor Station. The Controller Module will also interface to a printer displaying the alarm condition as well as to a CCTV switcher.

Lightning Protection

The Electro-Guard 3750 uses the latest technology available for lightning protection. Four Silicon MOV's rated at 5.1kV with a maximum residual voltage of more than 48kV are installed in the electrifier cabinet. The MOV's protect the electrifiers &om transient surges in the High Voltage Cables.

Insulators

Glass or porcelain insulators are mounted on the support post for each wire. These high quality insulators are utilized to eliminate nuisance alarms from environmental contamination that - attaches to lower quality nylon or plastic insulators.

Distributed By



DeTekion

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Specifications subject to change.

Specifications

Application	Electrified free standing fence to deter, detect and delay intruder activity
Zone Length	Dependent upon system design, Camera location and personnel Response. Normally less than 50m.
Fence Length	5km maximum with 12 fence conductor wires
Dimensions	1,675mm (H) x 600mm (W) x 600mm (D)
Operating Temperature	-40° C to +70° C
Electro Magnetic Compatibility	Class IV Insulation Electrifiers 75kV BIL
Power Requirements	240VAC Single Phase
Electrifier Outputs	Switchable to any two modes either manually or automatically under programmed control
Non-Lethal	+5kV pulsing on Loop A -5kV pulsing on Loop B
Monitor	No detectable current on fence
Lighting Protection	5.1kV MOV Arrester Voltage Complying to IEC 99-4
Alarm Detection	Short between wire loops Ground of any wire loop Cut of any wire loop
Alarm Indication	Full Graphic Panel Display and Control.
Maintenance	Routine inspection
Installation	By DeTekion Technicians
Location	Internally of externally mounted
Warranty	12 months from date of approved installation