

# PERIMETER INTRUSION DETECTION SYSTEM

## Triboniq



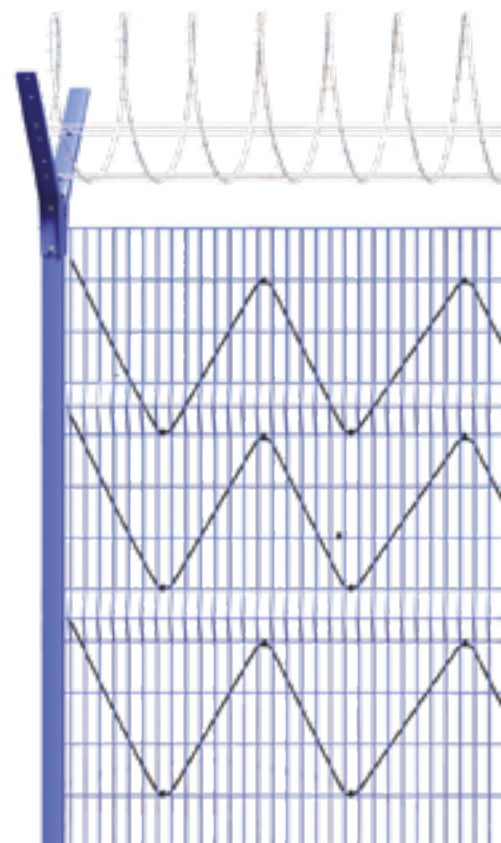
**Triboniq**



# INNOVATIVE PERIMETER INTRUSION DETECTION TECHNOLOGY

## BASED ON TRIBOELECTRIC CABLE FROM THE ELECTRICAL MARKET LEADER

TribonIQ perimeter intrusion detection system is designed to protect the perimeter of industrial, infrastructure and domestic facilities from third parties intrusion.



# Triboniq SYSTEM BENEFITS



Low costs  
per 1 running  
meter



Virtual  
engineer



Easy integration  
with other security  
systems



Very low  
false alarm  
rate



Possibility  
of concealed  
installation



Low  
maintenance  
costs

## INSTALLATION ON ANY TYPE OF FACILITY



### FENCES

of any type, including  
welded mesh, chain-  
wire mesh and barbed  
wire



### UNDERGROUND

triboelectric cable  
underground  
installation to prevent  
digging under



### ABOVE/UNDERWATER

protection of perimeters  
having a water boundary



### PIPELINES

ensuring the safety  
of liquids and gases  
transportation



# Triboniq SYSTEM TYPES

Depending on the customer requirements, we can configure different solutions based on two main types:

## BASIC SYSTEM

### IDEAL SOLUTION FOR SMALL SECURITY ZONES

This modification is the best option for creating of non-extended (every 100–600 meters) detection zones at the facility.

It involves the construction of a system based on TIO-01 Triboniq series smart controllers. One controller is designed to connect one sensor line up to 600 m\* long.

## PROFESSIONAL SYSTEM

### MAXIMUM BENEFITS FOR EXTENDED FACILITIES

It ideally solves the problem of protecting extended objects with a perimeter length of over 3 km. It is based on TIO-02 Triboniq controller, which allows connection of two sensor lines up to 1.5 km\* long each.

The controller is available in two modifications that differ in the type of connection to integrated security systems:

- connection using relay contacts (relay output);
- computer-based version that allows remote connection, configuration and monitoring via RS-485.

---

\*with linear laying of the sensor line

# SYSTEM COMPONENTS:

The system is equipped with a triboelectric cable as a sensor line, which is installed along the perimeter of the security zone. Any mechanical impact on the cable is registered by the controller, the quality of signal processing of which determines the effectiveness of the entire security system. Our solution minimizes the false alarm rate. This allows eliminating the human factor and significantly reduces the security system operating costs.



SENSOR  
LINE

SMART  
CONTROLLER

# SCOPE OF APPLICATION

PERIMETER SECURITY OF FACILITIES:



## OIL REFINERIES

Security of oil refinery territories, pipelines, gas distribution stations, production complexes





## **INFRASTRUCTURE FACILITIES**

Perimeter security of overnight facilities, office buildings, health care facilities, museums



## **INDUSTRIAL SITES**

Perimeter security of factories, warehouse complexes, test sites, quarries



## **CRITICAL INFRASTRUCTURE**

TribonIQ integration into security systems of banks, penitentiary facilities, defense industry facilities







## **POWER STATIONS**

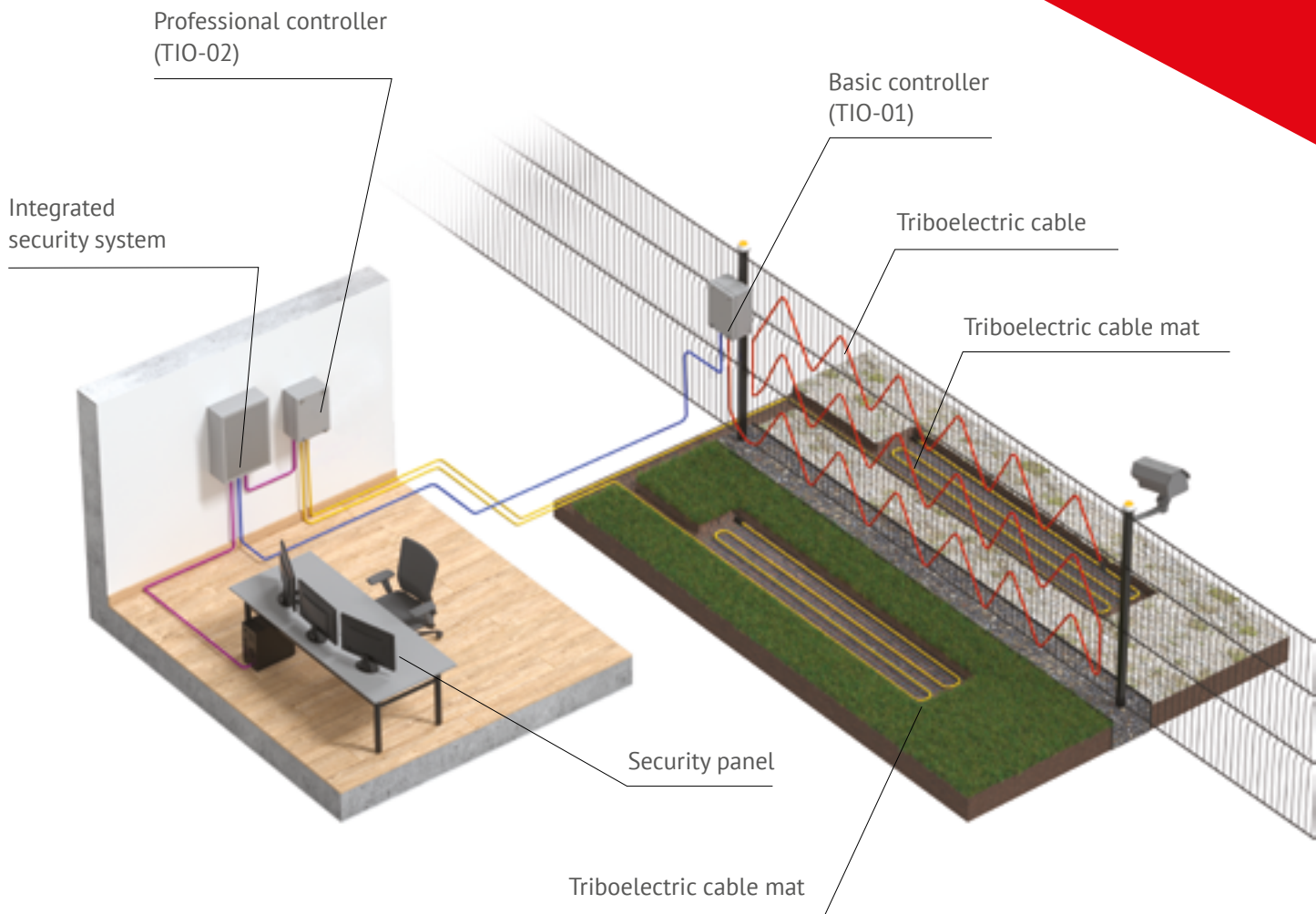
Security of power transmission towers, electric power plants, transformer substations, utility poles, buildings adapted for electric communication networks installation, solar power plants



## **RESIDENTIAL HOUSES**

Installation of the system on the fences of cottage communities, suburban residential complexes, holiday centers and hotels, agricultural complexes, greenhouses

# Triboniq SYSTEM LAYOUT



## MINIMIZING FALSE ALARM RATES

Most solutions available in the market give a large number of false alarms, require the constant presence of a full-time engineer for maintenance and manual adjustment of the controller sensitivity in case of environmental conditions changing.

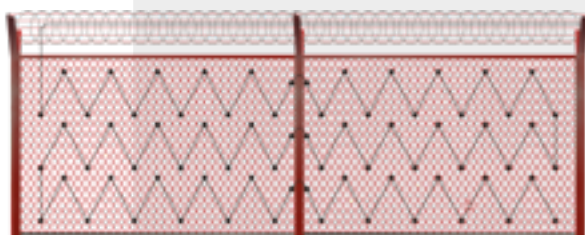
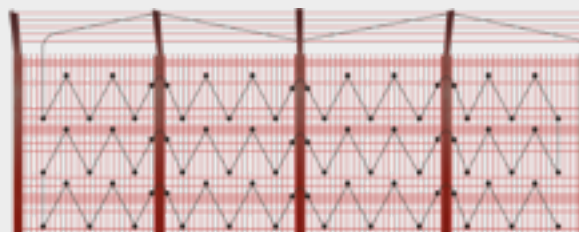
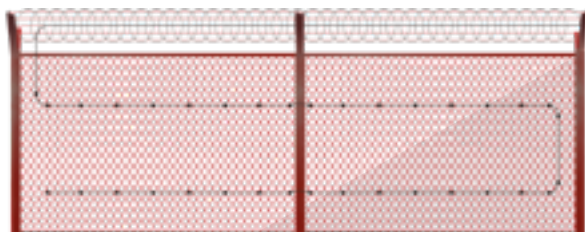
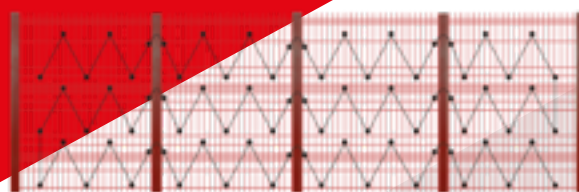
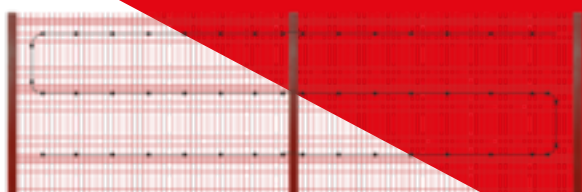
## SMART SENSITIVITY

Triboniq controller microprocessor recognizes tens of thousands of different scenarios (rain, wind, snow, train, etc.) and automatically, without the involvement of personnel, adjusts the sensitivity, minimizing the false alarm rate.



# TYPICAL SOLUTIONS

EXAMPLES OF SENSOR LINE INSTALLATION  
ON FENCES





# OUR SERVICES



sst-triboniq.in



## SYSTEM SELECTION ACCORDING TO THE CUSTOMER'S CONDITIONS

Our technical experts will visit your site and select the best security solution for your needs.

### INSTALLATION

We will be happy to offer a qualified installation service for quick and efficient installation of the Triboniq perimeter intrusion detection system.

### INTEGRATION

Triboniq perimeter intrusion detection system can be easily integrated into any existing security system, forming a single multi-line complex.



SST Thermal Solutions ME FZE

RA08 JA-01 & 02,  
PO Box No. 392750  
Jebel Ali Free Zone, Dubai,  
United Arab Emirates  
+971 501 002 495  
+971 501 002 861  
middle-east@sst-international.com

SST GS India Pvt. Ltd.

International Trade Tower,  
Block E, 2nd Floor,  
Nehru Place, New Delhi,  
110019, India  
+91 11 3044 6544  
+91 98 1075 4894  
asia@sst-international.com