CROWN SENSOR CABLE SYSTEM: Model No.: CSCS 3M

CROWN SOLAR POWER FENCING SYSTEMS is most trusted brand in Active fence systems, Power Fence, in India and we are glad to introduce another quality, robust and reliable product in the line of Security i.e CROWN SENSOR CABLE SYSTEM (Model No.: CSCS 3M). Basically it is a Perimeter Intruder Detection System (PIDS) suitable for most critical sites like Defence, Establishments, Manufacturing Units, Sub-stations, Pipelines, Airports, Prisons and various similar applications.

Overview

Generally all the sites shall have Boundary wall / Chain link mesh / Welded mesh / Wall top razor fence etc to protect their premises from intrusion. Any type of intrusion at above said premises will not give any indication to the User. CSCS can be installed on any type of premises and provide indication to the User upon intrusion upto a resolution of 3 meters. In addition it also has Temperature as well as magnetic sensors which can be used for fire detection and Gate intrusion respectively. CSCS can easily be integrated to other Electronic gadgets like CCTV / Access Control Systems etc.

CSCS is the best possible solution for Intrusion detection upon intruder breaching and suitable for all types of security fencing.

Features

- Excellent detection resolution of 3 meters (Maximum)
- User defined perimeter Zone length
- Unlimited perimeter Zones
- Microcontroller based indigenously developed technology
- Easily expandable
- Alarm generation at field and / or at Control room
- Programmable Sensitivity to meet site requirements
- Integration can be carried out with the help of Potential Free Contacts in the field or at Control room using standard Industrial protocols
- Mounting of Sensors can be carried out on Walls / Mesh / Concertina coil or any surface
- Crown Intrusion Software will control & monitor all field Node controllers and Sensors. Any intrusion will be detected and alarm indication and its location will be displayed on the PC screen
- No false alarm will be raised against any type of heavy vehicular traffic / heavy machinery / rivers or streams / strong winds

Climatic conditions

- Operating temperature: - 20degC to 70 deg C
- Humidity: 0 to 100% non condensing
- UV protection
- Rainfall: Upto 25 mm / hour
- Snowfall: Upto 30 cm / hour

Operation

Crown Sensor Cable System consists of Sensors which are placed at every 3 meters all along the proposed perimeter. Each sensor will have 3 types of Transducers namely Vibration sensor to detect any intrusion, Temperature sensor to detect any Fire or similar kind of activity and Magnetic sensor widely used for detection across Perimeter gates. Every Sensor also has a special relay which will be controlled by CROWN Intrusion Software and can be activated upon intrusion. This feature can be used to integrate with other electronic gadgets along the perimeter.

Out of the three Transducers Vibration sensor is widely used in Perimeter Intrusion Detection Systems also called as PIDS. All the sensors are connected to TCP/IP Node Controllers (NC) which is Microcontroller based Software driven unit to monitor all three Transducers. Any type of violation in the specified parameters will be immediately detected and the data is communicated to CROWN Intrusion Software (CIS) located at Control room.

Each Node Controller can handle a maximum of 250 Sensors on either side i.e each NC can control a minimum distance of 1500 meters (750 meters on either side). All the Node Controllers are in turn connected to existing LAN network thru onboard RJ45 connector. Any number of Node Controllers can be connected within the same network. Perimeter can be divided into any number of zones with flexibility on Zone length using CIS. Each zone can provide a PFC to trigger external gadgets like CCTV, Siren, Flood Light etc.

All types of False alarms are avoided by indigenously developed CIS using Artificial Intelligence and Adoptive Technology. CIS will detect the natural and abnormal activities which almost eliminate false Alarms and increases the intrusion detection capability.

Alarm Generation

- Climbing on the Wall / Mesh / Coil / Wire / Glass / Iron sheets etc
- Applying pressure on security fencing
- Moving the Sensor or Sensor cable
- Cutting / damage of Cable
- Tampering Node Controller
- Loss of Communication from Node Controllers
- Extreme temperature alarm
- Gate open alarm
- Any other parameter in consultation with User (Optional)

Advantages

- Easy to install
- Multiple sensing
- Adjustable sensitivity
- Smart patrol
- Patrol log with date and time
- Gate alarm
- Tamper alarm
- Configurable Extreme temperature alarm
- Vibration alarm
- Works with 12V DC
- Creation of Unlimited number of zones
- Each zone can be connected to I/O board or to any sensor module PFC for integration

TRASDUCIER SPECIFICATONS

1. 3 Meter detection
2. Contains vibration, magnetic and temperature sensor
3. Works with 12 V DC
4. Weather proof IP66
5. Each sensor can drive a Relay, upon violation, to generate PFC for integration
6. In built controller to process sensor data
7. Easy to fix on any surface either with cable ties or hardware

CSCS NODE CONTROLLER SPECIFICATIONS

1. TCP/IP based communication from field to control room
2. Inbuilt default 1 set of dry contacts for each chain for integration
3. Micro Processor based Alarm processing unit with in-built TCP/IP.
4. In-built Web Server.
5. On-board LCD.
6. Operating Voltage: 9v to 24v DC.

Note: Specifications & Features are subject to change without notice.

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