



Physical Barrier Combined with an Alarm System

Effective Delay of Unauthorized intruders

No Foundations are Required

Easy to Install

Allows Quick Deployment

YAEL-18 is a Taut Wire Intrusion Detection System specifically intended for integration with any type of concertina, or barbed tape barrier.

The system is designed to provide an alarm signal at the control center when an attempt is made to cross the concertina barrier by compressing, lifting, pulling the concertina, or by cutting through the barrier.

SYSTEM'S BASIC CONFIGURATION

The concertina barrier is divided into 40 to 50 m (131 to 164 ft.) basic sub sectors.

The taut wires, are stretched and tied to anchor posts on both ends of the sub sections. These wires are attached to the concertina by means of hog rings or sliding devices.

A type Y-15 detector is installed on a detector post, located at the center of each sub-section. The detector post is provided with a tensioned collector wire to which all the horizontal taut wires are clamped, in such a way as to sense the displacement caused by an attempted intrusion.

Up to five detectors, electrically connected in parallel, comprise an alarm sector.

TYPICAL APPLICATIONS

The YAEL-18 can be adapted easily to almost any combination of concertinas.

Typical applications are:

- Three concertinas, or more, mounted as a pyramid shape barrier
- Concertinas attached to a chain-link fence
- Concertina spread along the top end of a wall, or along chainlink fence
- Concertina along the roof edge of a building

YAEL-18 can be operated as a stand alone system monitored by any of the YAEL standard control units: YCU-1505, YCU-1516 or Y16 processors.

YAEL-18 Taut Wire Perimeter Intrusion Detection System for Concertina and Barbed Tape Barriers



SPECIFICATIONS

The YAEL-18 features:

- Three dimension physical barrier, combined with an alarm system
- The entire barrier is flexible, devoid of solid supports which might be used to aid an attempted intrusion
- Effective delay of unauthorized perimeter crossing
- Ease of installation allows for quick deployment
- No need for foundations
- Integratable with YAEL-15 taut wire systems, due to identical basic elements of both systems



Configuration

- Number and spacing of taut wires
- Allocation of sections and alarm sectors (In accordance with fence layout and customer's requirements.)

False Alarm Rate

- 1 per km per 3 months max. (1.6 per per 3 months)

Reliability

- MTBF Detector - 1.2×10^6 hrs
- MTTR - 30 minutes

Lightning and electrical transients

- Designed to meets MIL-STD-9094

EMI/RFI

- Designed to meet MIL-STD-461/462

Detectors

- Type Y-15
- Sensitivity fixed, independent of climatic conditions.
- Operating temp. -40°C to $+72^{\circ}\text{C}$ (-40°F to $+160^{\circ}\text{F}$)

Control Equipment

1. YAEL-15

Microprocessor controlled, 16 alarm sectors control unit available in two configurations:

- A. YCU-150.....desktop
- B. YCU-1516.....19 in. rack mount

Both units can communicate with the Computerized Control Center (CCC)

2. YAEL-16

Individual environmental protected processors installed adjacent to each detector communicating directly to CCC providing alarm and continuous operational test of each detector.

** Specifications subject to change without prior notice.*