PERIMETER · TAUT-WIRE DETECTION FENCE

D-Taut Wire

L3 Layer · The perimeter line

Sensor posts tension the wires and pinpoint any cut, climb or spread, on a new fence, a wall or an existing one.



KEY BENEFITS

01 **Pinpoints the attempt**
Each sensor zone reports on its own, so the control room sees exactly where the wire was cut, climbed or spread.

02 **Upgrades what you have**
Mounts on palisade, welded mesh, chain link, concertina or walls, or stands alone as the fence.

03 **Weather is not a trigger**
A 15 kg deflection threshold ignores wind, plants and small animals; no pre-emptive maintenance is needed.

HOW IT WORKS

01 **Tensioned wires**
Regular, braided, barbed or aircraft wire is tensioned to the sensor posts.

02 **Sensor posts**
Strain-gauge sensors feel any cut, climb or spread; 15 kg and above triggers an alarm.

03 **Zone controllers**
Sensor controllers along the line report each zone of up to 100 m.

SPECIFICATIONS

Sensor post	Height 50 cm (slider post 500 mm), section 50 × 50 mm
Wire spacing	120 mm between wires
Wire types	Regular, double-braided, barbed or aircraft wire
Fence length	No fixed limit (practical limitation)
Fence height	According to customer specification
Length of system zone	Not exceeding 100 m
Unit dimensions	250 × 55 × 25 mm, 200 g
Processing unit	Up to 32 sensors
Deflection force	15 kg and above activates the alarm
Dry contact	N.O. & N.C. 1 A @ 48 VDC
Power supply	12 mA @ 48 VDC
Communication output	RS232
Operating temperature	+72 °C to −25 °C
Storage temperature	+80 °C to −32 °C
Humidity	95 %
Corrosion	All parts treated to MIL T 152

04 **Gateway and API**
RS485 to the D-FENCE gateway, then IP to cameras, client systems and the operator screen.

05 **Response**
The operator sees the exact zone, with the nearest camera on screen.

Lightning & electronic transients	MIL STD 9094
EMI & RFI	MIL STD 461, 462
False alarm rate (catalogue)	Less than 1 per km per 3 months
MTBF sensor	4.7 × 10⁸ hours
MTTR	30 minutes
Warranty	10 years on the sensors

TENDER SPECIFICATION TEXT

1. GENERAL

The system shall be D-Taut Wire by D-FENCE Electronic Fencing and Security Systems Ltd. (ISO 9001:2015 certified quality management), or an approved equivalent that meets every requirement in this section.

2. FUNCTION

Sensor posts tension the wires and pinpoint any cut, climb or spread, on a new fence, a wall or an existing one.

3. THE SYSTEM SHALL PROVIDE

- **Barrier plus detection:** A physical barrier and an electronic line that shows the exact point of an attempt.
- **Three mountings:** On top of a fence with outriggers, over its full height, or as the fence itself.
- **Any wire:** Regular, double-braided, barbed or aircraft wire; two parallel screens without extra posts.
- **Quick retrofit:** Palisade, welded mesh, chain link, concertina, power fence or walls.
- **Self-adapting:** Long intervals between field maintenance; withstands all environmental conditions.
- **Custom colours:** Height, length and colour to order for residential lines.

4. TECHNICAL REQUIREMENTS

- **Sensor post:** Height 50 cm (slider post 500 mm), section 50 × 50 mm
- **Wire spacing:** 120 mm between wires
- **Wire types:** Regular, double-braided, barbed or aircraft wire
- **Fence length:** No fixed limit (practical limitation)
- **Fence height:** According to customer specification
- **Length of system zone:** Not exceeding 100 m
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5. DETECTION SEQUENCE

1. **Tensioned wires:** Regular, braided, barbed or aircraft wire is tensioned to the sensor posts.
2. **Sensor posts:** Strain-gauge sensors feel any cut, climb or spread; 15 kg and above triggers an alarm.
3. **Zone controllers:** Sensor controllers along the line report each zone of up to 100 m.
4. **Gateway and API:** RS485 to the D-FENCE gateway, then IP to cameras, client systems and the operator screen.
5. **Response:** The operator sees the exact zone, with the nearest camera on screen.

6. SUBMITTALS

Before installation, the contractor shall submit the manufacturer's datasheet, the installation instructions and the zone layout for approval.