PERIMETER · SENSOR-POST WELDED MESH

D-Welded Mesh

L3 Layer · The perimeter line

The strain-gauge sensor is the connector that holds each panel, so any climb or cut changes the load and raises an alarm.



KEY BENEFITS

01 **Built into the fence**
The sensor is the panel connector, not an add-on cable: nothing to bypass, nothing to snag.

02 **Tells threat from weather**
The controller recalibrates constantly and uses a self-adapting algorithm to filter wind and weather.

03 **Any panel, any length**
Panels up to 100 kg, unlimited fence length, zones of 12–24 m set to your site.

HOW IT WORKS

01 **Sensor as connector**
Each mesh panel hangs on stainless strain-gauge sensors in the sensor posts.

02 **Load change**
A climb or cut adds 25 kg or more above the panel's own weight.

03 **Self-adapting controller**
Signal processing in the posts separates real attacks from wind and weather.

SPECIFICATIONS

Sensor post	60 × 60 mm, height 2 m or above
Fence length	Unlimited
Mesh panel weight	Up to 100 kg (heavier panels on request)
Mesh height and design	According to customer specification
Length of system zone	12–24 m, or to customer specification
Minimum trigger force	25 kg above the static weight of the mesh (or to specification)
Dry contact	N.C. & N.O. 1 A @ 48 VDC
Power supply	12–50 mA @ 48 VDC
Communication output	RS232 serial interface
Operating temperature	+72 °C to –40 °C
Storage temperature	+80 °C to –55 °C
Humidity	98 %
Corrosion	MIL T 152 treatment; all parts stainless steel
Lightning & electronic transients	MIL STD 9094
EMI & RFI	MIL STD 461, 462

04 **Integration**
Dry contact or RS232 to the alarm system, CCTV, mobile control or D-Command Control.

False alarm rate (catalogue)	Less than 1 per km per 3 months
MTBF sensor	4.7×10^8 hours
MTTR	30 minutes
Warranty	10 years on the sensors

TENDER SPECIFICATION TEXT

1. GENERAL

The system shall be D-Welded Mesh 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

The strain-gauge sensor is the connector that holds each panel, so any climb or cut changes the load and raises an alarm.

3. THE SYSTEM SHALL PROVIDE

- **Integral sensor:** The strain-gauge sensor is the connector between panel and post.
- **Concealed:** Sensors are hidden in the posts; the fence looks ordinary.
- **Vandal-proof:** Tamper-resistant and immune to environmental changes.
- **Processing in the posts:** Digital analysis against a defined intrusion profile.
- **Modular:** Easy to install, with unlimited panel options.
- **Integration:** Smart Security Platform, siren, CCTV, mobile control and 24/7 central alarm.

4. TECHNICAL REQUIREMENTS

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5. DETECTION SEQUENCE

1. **Sensor as connector:** Each mesh panel hangs on stainless strain-gauge sensors in the sensor posts.
2. **Load change:** A climb or cut adds 25 kg or more above the panel's own weight.
3. **Self-adapting controller:** Signal processing in the posts separates real attacks from wind and weather.
4. **Integration:** Dry contact or RS232 to the alarm system, CCTV, mobile control or D-Command Control.

6. SUBMITTALS

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