STRUCTURES & INTERIORS · CONCEALED PRESSURE SENSOR

D-Tech

L6 Layer · The building

An ultra-slim pressure sensor hidden under wall copings, gates and floors: it reports the climb and leaves the design untouched.



KEY BENEFITS

01 **Invisible protection**
The sensor hides under the finish, so the wall, gate or floor keeps its look.

02 **Alarms on real intruders**
It measures weight on the barrier; the catalogue false-alarm rate is less than 1 per km per 3 months.

03 **One sensor, many surfaces**
Wall tops, gates, decks, steps and interiors run on the same strip and controller.

HOW IT WORKS

01 **Slim sensor**
The D-Tech strip lies under the coping, gate frame or floor cover.

02 **Weight on the cover**
A climber adds load; about 15 kg above the cover weight triggers the alarm.

03 **Controller**
The processor sends a dry contact (N.O. / N.C.) or RS485 message.

04 **Local response**
CCTV, siren and floodlight are triggered on site.

SPECIFICATIONS

Sensor	Ultra-slim D-FENCE pressure sensor (strain gauge)
Installation	Under wall / fence coping, on gates, under decks, steps and floors
Strip length	Max. 6 m per unit
Cover weight	Up to 350 kg (higher to customer specification)
Cover height / design	To customer specification; metal or stone coping
Length of system zone	Up to 36 m
Minimum trigger force	Usually 15 kg above the static weight of the cover
Dry contact	N.O. & N.C., 1A@48VDC
Power supply	12 VDC
Communication output	RS485 serial interface
Operating temperature	+72 °C to –25 °C (162 °F to –13 °F)
Storage temperature	+80 °C to –55 °C (176 °F to –67 °F)
Corrosion	Anti-corrosion treatment to MIL-T-152; all parts stainless steel

05 **Notification**
The mobile app, the security control room and D-Command Control receive the event.

Humidity	95%
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)	4.7×10^8 h
MTTR	30 min
Warranty	10 years on the sensors

TENDER SPECIFICATION TEXT

1. GENERAL

The system shall be D-Tech 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

An ultra-slim pressure sensor hidden under wall copings, gates and floors: it reports the climb and leaves the design untouched.

3. THE SYSTEM SHALL PROVIDE

- **Ultra-slim, concealed:** An integrated low-profile strip, hidden under the coping, gate frame or floor finish.
- **Your coping, your design:** Height, width, length and colour to order; exterior in metal or stone.
- **Walls, gates and ground:** One sensor family for wall tops, gates, decks, steps, roofs and the floor in front of a safe.
- **Weight-based detection:** Alarm at about 15 kg above the static weight of the cover; climbing and breaching are reported.
- **Long zones:** Strips of up to 6 m; system zones of up to 36 m.
- **Built for outdoors:** Stainless-steel parts, MIL-T-152 anti-corrosion treatment, +72 °C to –25 °C.
- **Open outputs:** Dry contact N.O. / N.C. and RS485 into any alarm, CCTV or control-room system.

4. TECHNICAL REQUIREMENTS

- **Sensor:** Ultra-slim D-FENCE pressure sensor (strain gauge)
- **Installation:** Under wall / fence coping, on gates, under decks, steps and floors
- **Strip length:** Max. 6 m per unit
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- **Corrosion:** Anti-corrosion treatment to MIL-T-152; all parts stainless steel
- **Humidity:** 95%
- **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):** 4.7×10^8 h
- **MTTR:** 30 min
- **Warranty:** 10 years on the sensors

5. DETECTION SEQUENCE

1. **Slim sensor:** The D-Tech strip lies under the coping, gate frame or floor cover.
2. **Weight on the cover:** A climber adds load; about 15 kg above the cover weight triggers the alarm.
3. **Controller:** The processor sends a dry contact (N.O. / N.C.) or RS485 message.
4. **Local response:** CCTV, siren and floodlight are triggered on site.
5. **Notification:** The mobile app, the security control room and D-Command Control receive the event.

6. SUBMITTALS

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