PERIMETER · WALL-CROWN PRESSURE SENSOR

# D-Pressure Strip

L3 Layer · The perimeter line

A patented strain-gauge strip under the coping alarms when real weight lands on the wall, and ignores birds, cats and wind.



## KEY BENEFITS

01 **Real weight, not noise**
Alarms only above the set activation weight of 20 ± 10 kg; wind loads of 4–15 kg stay silent.

02 **Invisible on the wall**
Hidden under a coping in stone, marble, metal or wood, so the wall keeps its design.

03 **Fit and forget**
No moving parts, self-adjusting every second, 15+ years outdoors, 10-year sensor warranty.

## HOW IT WORKS

01 **Load on the crown**
A climber's weight presses the coping onto the strain-gauge sensors.

02 **Sensor measures**
The sensor reads the real force and re-zeroes to the environment every second.

03 **Controller decides**
Above the activation weight, the zone alarms in < 3 s.

04 **Alarm out**
Dry contact or RS232 / RS485 into your alarm panel, VMS or D-Command Control.

## SPECIFICATIONS

| | |
|---|---|
| **Alarm activation weight** | 20 ± 10 kg, set per site |
| **Minimum trigger force (datasheet)** | Typically 15 kg above the static weight of the cover |
| **No alarm below threshold** | Bird 0.1–1.5 kg · swaying plant 0.5–3 kg · cat 4.5 kg |
| **Wind load under typhoon** | 4–15 kg, no alarm |
| **Minimum weight of a person** | 55 kg |
| **Alert response time** | < 3 s |
| **Cover (coping) weight** | Up to 350 kg |
| **Cover height and design** | According to customer specification |
| **Fence length** | Unlimited |
| **Length of system zone** | 12–24 m |
| **Standard sensor** | 250 × 55 × 25 mm, stainless steel / aluminium alloy |
| **Dry contact** | N.O. & N.C. 1 A @ 48 VDC |
| **Power supply** | 12 mA @ 48 VDC |
| **Communication output** | RS232 / RS485 |
| **Operating temperature** | +72 °C to –25 °C |

05 **Response**
Cameras, floodlights, siren and the guard's phone react to the exact zone.

| | |
|---|---|
| **Storage temperature** | +80 °C to –55 °C |
| **Humidity** | 95 % |
| **Corrosion** | Anti-corrosion treatment to MIL T 152; all parts stainless steel |
| **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** | $4.7 \times 10^8$ hours |
| **MTTR** | 30 minutes |
| **Outdoor service life** | 15+ years |
| **Warranty** | 10 years on the sensors |

## TENDER SPECIFICATION TEXT

### 1. GENERAL

The system shall be D-Pressure Strip 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

A patented strain-gauge strip under the coping alarms when real weight lands on the wall, and ignores birds, cats and wind.

### 3. THE SYSTEM SHALL PROVIDE

- **Patented strain-gauge sensing:** Measures real force on the crown, not vibration.
- **Self-adjusting:** Recalibrates to the environment every second.
- **No moving parts:** Robust and maintenance-free, 15+ years outdoors.
- **Any wall, fence or gate:** New or existing, in concrete, stone, wood or metal.
- **Custom coping:** Marble, stone spray, metal paint or outdoor wood; height, width, length and colour to order.
- **Open integration:** Dry contact or RS232 / RS485 into alarm panels, VMS, PSIM or D-Command Control.

### 4. TECHNICAL REQUIREMENTS

- **Alarm activation weight:** 20 ± 10 kg, set per site
- **Minimum trigger force (datasheet):** Typically 15 kg above the static weight of the cover
- **No alarm below threshold:** Bird 0.1–1.5 kg · swaying plant 0.5–3 kg · cat 4.5 kg
- **Wind load under typhoon:** 4–15 kg, no alarm
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- **Power supply:** 12 mA @ 48 VDC
- **Communication output:** RS232 / RS485
- **Operating temperature:** +72 °C to –25 °C
- **Storage temperature:** +80 °C to –55 °C
- **Humidity:** 95 %

- **Corrosion:** Anti-corrosion treatment to MIL T 152; all parts stainless steel
- **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:** $4.7 \times 10^8$ hours
- **MTTR:** 30 minutes
- **Outdoor service life:** 15+ years
- **Warranty:** 10 years on the sensors

## 5. DETECTION SEQUENCE

1. **Load on the crown:** A climber's weight presses the coping onto the strain-gauge sensors.
2. **Sensor measures:** The sensor reads the real force and re-zeroes to the environment every second.
3. **Controller decides:** Above the activation weight, the zone alarms in < 3 s.
4. **Alarm out:** Dry contact or RS232 / RS485 into your alarm panel, VMS or D-Command Control.
5. **Response:** Cameras, floodlights, siren and the guard's phone react to the exact zone.

## 6. SUBMITTALS

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