3D **MEMS** FENCE SENSOR SYSTEM

SIOUX MEMS PRO2

1500 m

NEW

80 ZONES
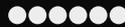
FUZZY LOGIC INSIDE

REDUNDANCY

100% screwless

<···⚡···> IP-READY PoE

PIN POINT LOCATION 1M

6 YEAR WARRANTY

NEW RIGID AND MESH FENCE INTRUSION DETECTION SYSTEM

V 1.0

PRODUCT OF THE YEAR 2016 Sa

DETEKTOR INTERNATIONAL AWARD
Best Product 2012
ALARM & DETECTION

CIAS

SIOUX MEMS **PRO2** — 1500 m

SIOUX PRO2 is the brand-new version of CIAS' fence-mounted intrusion detection system for perimeter protection which since 2012 has been installed with great results on many sites, always with high-security requirements and specifications. The Sioux system has also been awarded numerous prestigious prizes. The system, which detects fence cutting, climbing and displacement, comprises up to 140 MEMS sensors, sensitive on all three spatial axes, for each of two branches monitored by the central controller. These sensors are clustered in groups of 7, with each cluster made by 1 master-sensor and 6 slave-sensors. Each Master sensor receives by its Slave sensors the electrical signal relevant to the detected vibration on the fence, digitalizes and transmits it to the Controller Unit. Via Sioux-Test Pro, or via Relays with the innovative Touch&Zone function, the 280 MEMS sensors in the array can be divided into up to 80 alarm zones.

REDUNDANCY AND LINE INSULATORS

The new release of **SIOUX PRO** introduces a very important feature: cable cut-immunity. This capability insures that each branch of the Sioux sensor array remains fully functional even if the connection cable between sensors is cut in one location. This feature is of utmost importance in very high-risk sites. It is implemented by putting a special module at the end of each of the 2 MEMS sensor branches to provide connectivity to the TCP/IP network. Moreover, up to 19 isolators can be added per each branch, to make it short-circuit proof in case of cutting of the communication cable.

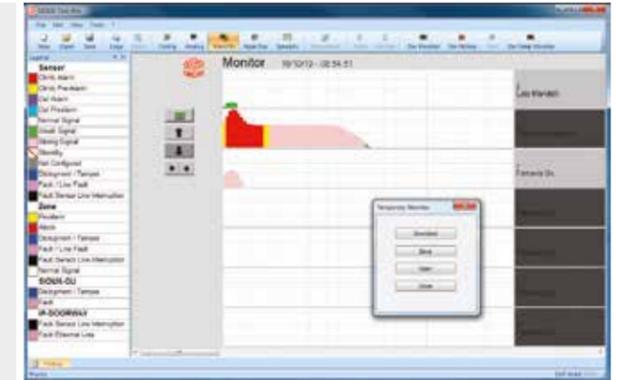**SIOUX SELF HEALING RING**

HIGHLIGHTS NEW

- For any fence type
- Double gasket
- **No fixing screws**
- Fixing with ties
- Special bracket
- IP grade: IP66
- Anti-removal inclinometric embedded tool
- Extra accessory: special anti-removal bracket

REDUNDANCY CONFIGURATION

SIOUXPRO2-REDUND   SIOUXPRO2-REDUND   SIOUXPRO2-REDUND   SIOUXPRO2-REDUND

700+50m   **700+50m**   **700+50m**   **700+50m**

SIOUXPRO2-LINE
Power converter for extension of branches up to 750 mt each.

SIOUXPRO2-LINE   **SIOUXPRO2-LINE**   **SIOUXPRO2-LINE**

Optional redundancy circuit management, to close branches on IP network.

SIOUXPRO2-CTRL   **RELAY CARD**   **SIOUXPRO2-CTRL**   **RELAY CARD**

IP + Power (×6)

switch (×5)

Fibre Optic + Power

SIOUX-CONTROLLER PRO2
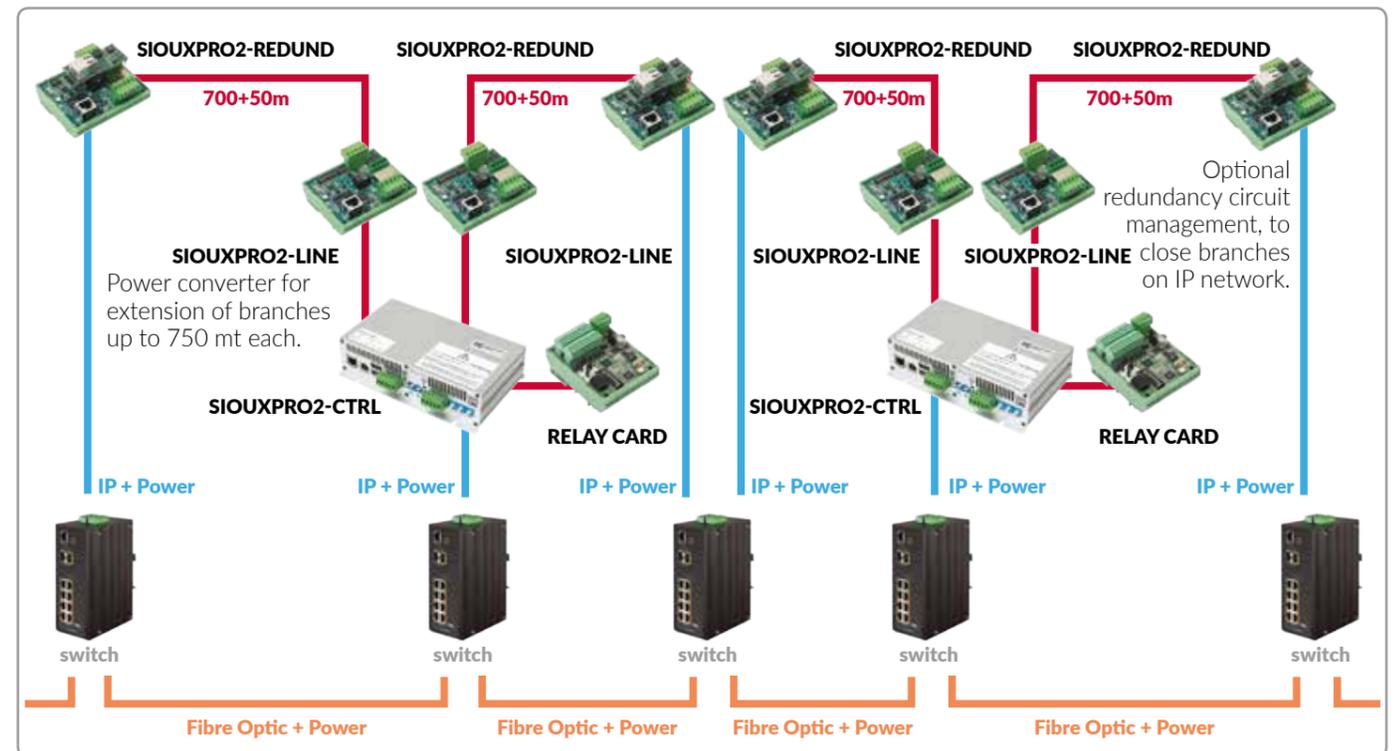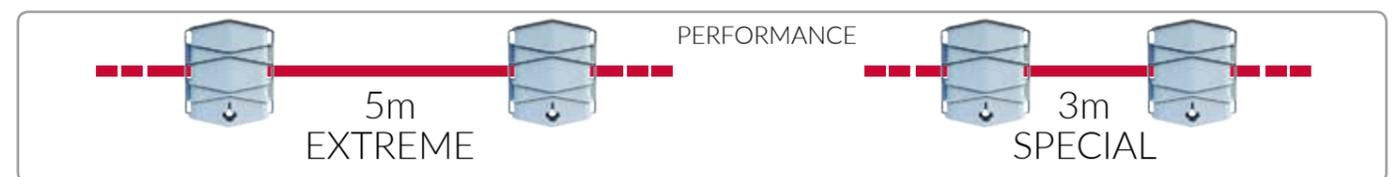
- STAINLESS STEEL BOX FOR OUTDOOR
- IP-PoE
- USB
- POWER 13,8 Vdc
- RS-485 RELÈ
- LEFT BRANCH
- RIGHT BRANCH
- PROGRAMMING SELECTORS

SENSORS INTERAXLE SPACING

PERFORMANCE

5m EXTREME

3m SPECIAL

SYSTEM DETAIL

| ZONE 1 | ZONE 2 | ZONE 3 | ZONE 4 | ZONE 5 ... | ZONE 80 |

700 + 50m / 140 SENSORS   700 + 50m / 140 SENSORS
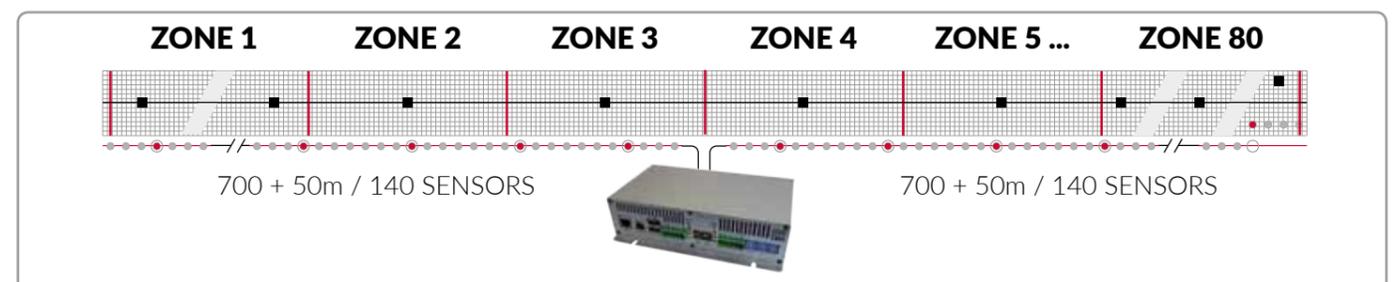
SPECIFICATIONS

SENSOR TYPE	MEMS ACCELEROMETER
DETECTION	CLIMBING, CUT AND FENCE DISPLACEMENT WITH ADJUSTABLE INCLINATION
COVERAGE	UP TO 1400 + 100m WITH A SINGLE CONTROL UNIT
POWER SUPPLY	13,8 Vdc OR PoE CLASS III (POWER OVER ETHERNET IEEE802.3af)
NUMBER OF ZONES	UP TO 80 ZONES PER PROCESSOR UNIT
ZONE LENGTH	EASILY DEFINABLE USING PC-BASED CONFIGURATION SOFTWARE OR SIMPLE **TOUCH & ZONE™**
PROBABILITY OF DETECTION (POD)	98%
FALSE ALARM RATE	(FAR) : 8/1500m/YEAR
DETECTION HEIGHT	UP TO 6m
CONSUMPTION	10W AT 13,8Vdc – 10W WITH PoE
IP GRADE	IP66
TEMPERATURE	-40°C TO +70°C
FENCE TYPES	CHAIN-LINK, WELDED MESH, RIGID FENCE
CONFIGURATION AND CALIBRATION SOFTWARE	SIOUX-TEST PRO FOR LOCAL OR REMOTE MANAGEMENT
WARRANTY	6 YEARS
SPECIAL OUTPUTS	RS 485 AND ETHERNET FOR IB-SYSTEM IP
RELAYS OUTPUTS	UP TO 80 DRY RELAY CONTACTS ON RS-485 ALARM / TAMPER / FAILURE / PRE-ALARM / NO ANSWER
MTBF (MEAN TIME BEFORE FAILURE)	UP TO 150.000 HOURS
MTTR (MEAN TIME TO REPAIR)	5 MINUTES
MEMORY	EVENT LOGS UP TO 10 YEARS
SENSOR'S DIMENSION AND COLOR	117MM X 131MM X 50MM / RAL 7040
SPECIAL BRACKET	SPECIAL BRACKET WITH ANTI-DISPLACEMENT ELECTRONIC TOOL

SDK AVAILABLE FOR FULL INTEGRATION WITH THIRD PARTY SYSTEMS (PROVIDED WITH PINPOINT OF ALARM WITH 1 METER RESOLUTION)

INTEGRATED WITH:

Genetec   milestone The open platform company   S2 SECURITY   LENEL A UTC Fire & Security Company

CIAS RESERVES THE RIGHT TO CHANGE THE SPECIFICATIONS DESCRIBED IN THIS BROCHURE AT ANY TIME WITHOUT PRIOR NOTICE.

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