SicurZone

SICURIT
PERIMETER PROTECTION SYSTEMS

Multiple Zones Fence Detection Sensor
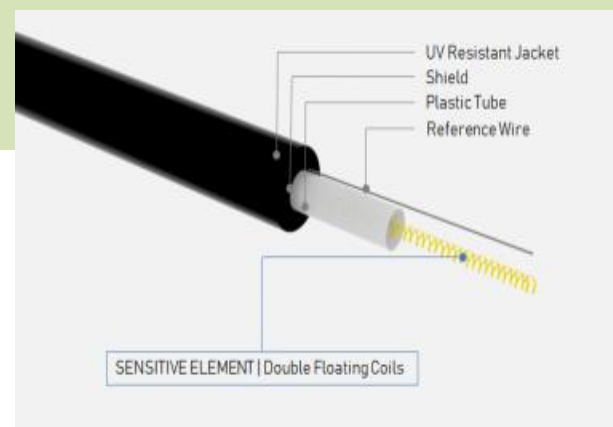Cost-Effective | Fast & Easy Deployment

Product Introduction

SicurZone

SicurZone™
is SICURIT brand new standalone **ZONE**-based fence detection sensor designed to cost-effectively secure most metal fence types by means of a special sensor cable.

SicurZone™
detects vibrations caused by mechanical impulses arising from attempts to climb, lift up or cut through the fence ensuring high level of detection and deterrence.

UV Resistant Jacket
Shield
Plastic Tube
Reference Wire

SENSITIVE ELEMENT | Double Floating Coils

Zone-based PIDS

SicurZone

Unlike conventional cost-effective sensors which offer only one zone and a sole sensitivity setting per controller, SicurZone™ adopts small "junction" Sector-Boxes within the detection line to define both zones and individual sensitivity settings.

Up to 8 Sector-Boxes can be connected to each controller while each zone can be extended up to 125m, bringing the maximum range of SicurZone™ Controller to 1km (8x 125m)

Associated Detection Line
> Up to 125m

Sector-Box

SicurZone™
consists of 3 main Elements:

Controller (P/N FENSECTAN)

**The Controller manages** and supervises **up to 8 Sector-Boxes** (which define lengths and sensitivity of each zone, ed.), provides **8x Intrusion, 1x Tamper 1x Low-Battery and 1x Fault Alarm** indications via O.C. Outputs and connect to HyperPower™ for **remote Alarm supervision and diagnostic via RS485**

Sector-Box (P/N FENSECT)

The Sector-Box can **manage up to 125m of Sensor cable** (1-125m).
Detection parameters, pulses and sensitivity, can be achieved very quickly by means of Trimmers and Dip Switch. Battery-powered guarantees a life span of 3 years
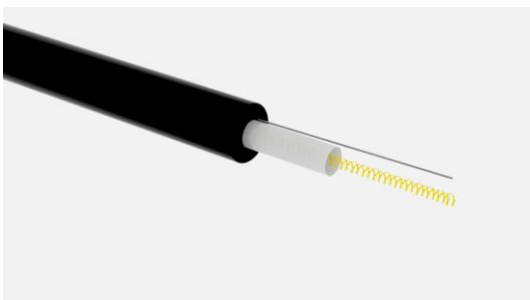
Sensor Cable (P/N FENCBVB)

Made of internal springs wrapped wire free to move inside of a small plastic conduit and its reference shield, once mounted and properly fixed on a fence generate a stable electrostatic charges which is affected by little cable vibrations.
The vibration create a movement of spring inside on plastic conduit and change the electrical charges that is opportunely analyzed by the Sector-Box which set off an alarm from the Controller if this exceed the desired threshold.

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FENSECTAN Controller

FENSECTAN

manages and supervises up to 8 Sector-Boxes.
Each Sector-Box Alarm, Tamper and low-Battery status is reported on the Controller via dedicated O.C. Outputs.
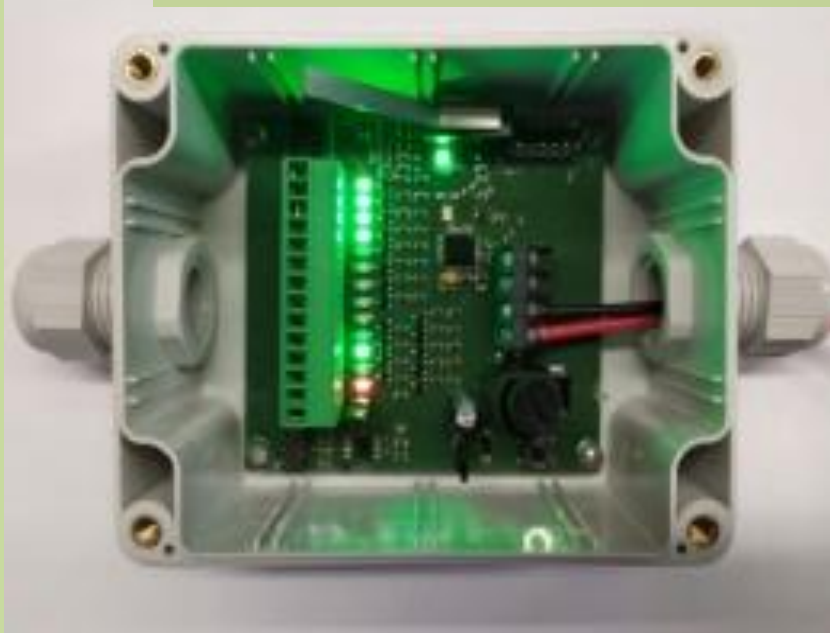
Features:

Outputs:	12 O.C. of which:
	8 used to define Zones
	1 used for Tampers
	1 used for Cut / Short Circuit
	1 used for Sector-Box Low Battery
	1 used for Communication Supervision
RS485:	1 to connect to HP for remote Alarm supervision
Lead-in Cable:	FTP/UTP or RG59
Power-Supply:	12VDC
Power Cons.:	< 20mA (250mA in Alarm condition with LED activated)
Working Temp.:	-25°C / +65C°
Box IP Grade:	IP65

FENSECTAN is optionally available pre-assembled in IP65 cabinets complete of 230V Power Supply, CMH9000SZ (if remotely connected to HyperPower™ Alarm and Even management Platform) and 3/4G communication modules.

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FENSECT Sector-Box

FENSECT

3V battery powered, the Sector-Box manages up to 125m of FLEXCBVB Sensor cable.
Detection line fine tuning is easily achieved by means of trimmers and Dip-switch.
The First Sector-Box is connected to the Controller via FTP, UTP orRG59 cable (up to 200m of lead-in cable)

Features:

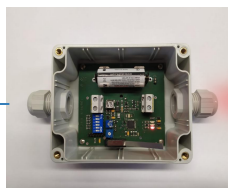|	
Power-Supply:	3V Lithium Battery
Battery Type:	CR17450 @ 2300mA
Power Cons.:	25µA (250µA in Alarm condition)
Av. Battery Life:	3 Years
Working Temp.:	-25°C / +65C°
Box IP Grade:	IP65
Weight:	200gr

Controller   Sector-Box 1   Sector-Box N
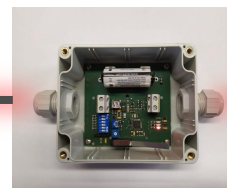
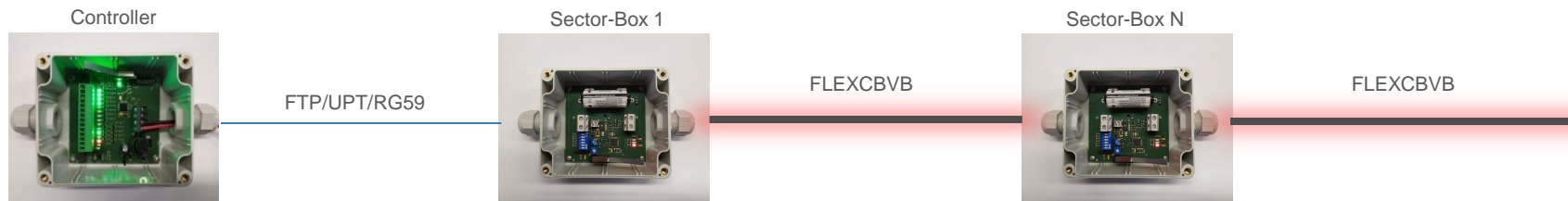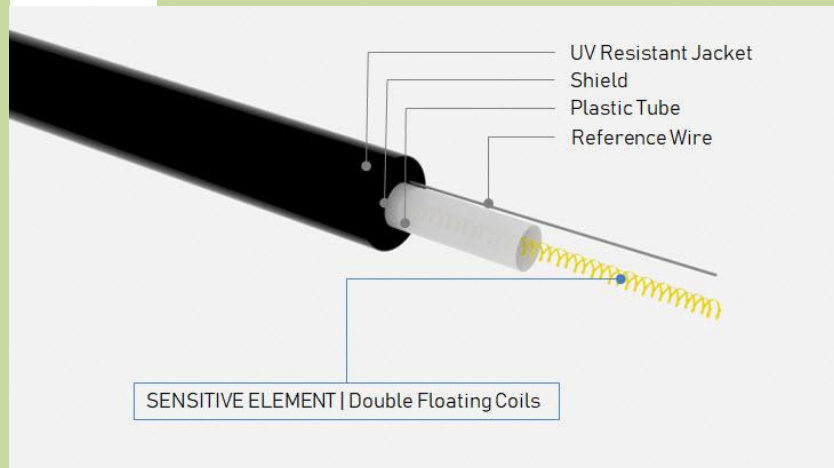FTP/UPT/RG59   FLEXCBVB   FLEXCBVB
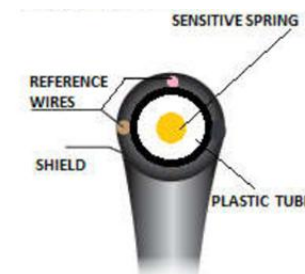
FLEXCBVB Sensor Cable

FLEXCBVB

This unique Sensor Cable, which is made of internal springs wrapped wire free to move inside of a small plastic conduit and its reference shield, once mounted and properly fixed on a fence generate a stable electrostatic charges which is affected by little cable vibrations. The vibration create a movement of spring inside on plastic conduit and change the electrical charge that is opportunely analyzed by the Sector-Box which set off an alarm from the Controller if this exceed the desired threshold.

UV Resistant Jacket
Shield
Plastic Tube
Reference Wire

SENSITIVE ELEMENT | Double Floating Coils

Features:

Minimum Zone Length:	1m
Maximum Zone Length:	125m
Section Diameter:	Ø12mm
Working Temperature:	-40°C / +80°C

HIGH UV RESISTANCE

SENSITIVE SPRING
REFERENCE WIRES
SHIELD
PLASTIC TUBE

Up to 1000m 8 Zones

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FENSECT — ZONE-3 | 125m — FENSECT — ZONE-4 | 125m — FENSECT

ZONE-2 | 125m

FENSECT

12 O.C.

RS485

CMH9000SZ

FENSECTAN

12VDC

ZONE-1 | 125m

ZONE-5 | 125m

FENSECT

ZONE-6 | 125m

FENSECT

Lead-in Cable

ZONE-8 | 125m — FENSECT — ZONE-7 | 125m — FENSECT

TCP/IP

C&CC

Multiple Site
Monitoring Station

HyperPower

Alarm & Event
Management Platform (SW)

Remote Supervision

Multiple Site Remote Supervision

Site-4

FENSECTANKIT1SZ

Site-3

FENSECTANKIT1SZ

Site-2

FENSECTANKIT1SZ

Site-1

FENSECTANKIT1SZ

TCP/IP

HYPERPOWER™
Alarm Supervision, Diagnostic and Control SW

SDK

Technological Partners

- Genetec
- MIlestone
- Lensec
- Advancis
- IndigoVision
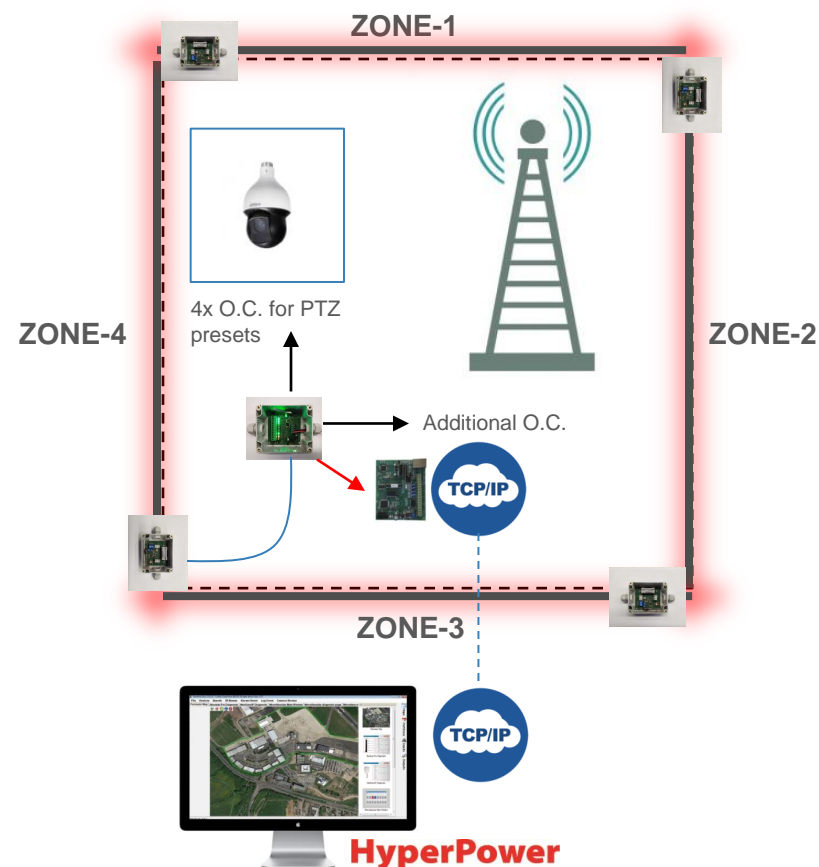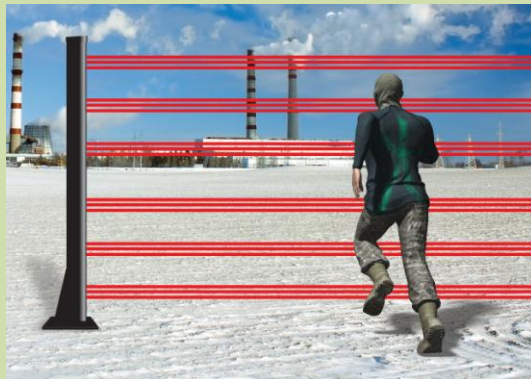- Geutebureck
- ModBus TCP
- Metel

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Application Example

Small Site 30x30m
(e.g. Communication & Cellular Towers)

BOQ Example (with remote supervision via HP)

1x	FENSECTAN (or FENSECTANKIT)	
4x	FENSECT	
120m	FLEXCBVB	
ca. 250x	Plastic Ties (UV Resistant)	Field Components
Few m.	Lead-in Cable	
1x	CMH9000SZ (RS485/IP Interface Board)	

1x	HyperPower™ Alarm&Event Platform (SW)	C&CC
Nx	Licenses to unlock CMH9000SZ	

ZONE-1

ZONE-4

ZONE-2

ZONE-3

4x O.C. for PTZ presets

Additional O.C.

TCP/IP

TCP/IP

HyperPower

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PERIMETER PROTECTION SYSTEMS

SICURIT Perimeter Protection Systems is a leading Italian manufacturer of Perimeter Intrusion Detection System (PIDS) designed to protect Critical Infrastructures. Committed to innovation and product diversification, SICURIT products range includes patented bi-directional IP Native IR & DT barriers (Virtual Fences) for both ground and wall-mounting applications and the unique of its kind HSF Activa™, an All-in-One high-security fence with integrated and completely hidden/protected Pin-Point detection technology.

www.sicurit.com

Italian Technology | Worldwide Applications