

## Securitex Electronic Article surveillance technology division

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### Securitex / Promatic Electronic Article system

#### **PDS3210B serials of Digital Intelligent Sensor**

Securitex/Promatic PDS3210 Electronic Article Surveillance System is designed and manufactured by a team of highly trained electronic engineers in the field of security engineering. The system uses the Radio Frequency technology to tags all merchandise thus allow the merchant with the ability to prevent unpaid item from leaving the store without notice. The PSD3210 while prevent commodities from being stolen effective at the same time it can help to built relationship between customers and store owner. This system is designed to suits all kinds of retail sites, such as supermarkets, AV stores, clothing stores, bookstores, library, drug stores, game arcade and any establishment that have an open shelf business concept etc. This system can also be used to tags on elderly in homes and children in child care centre. The Securitex/Promatic EAS system was manufactured under the ISO9000 standard and carries the CE certification as well.

#### **The PDS3210 system c/w the following advantages:**

- High sensitivity and very low false alarm rate as the system adopted the 2nd generation DSP (Digital Signal Processor) technology.
- Anti-disturbance from metal handcart, hand's touch and it can also be installed on gate with metal baffle
- It adopts filter technology and decrease noise circuit technology.
- Two kinds of alarm tone---quick and slow, it also has three kinds of volume---high, medium and low for you to choose according to your needs and the environment noise level.
- It is also very convenient to install and calibrate.
- Performance is unique and novelty. The design is very pleasing to the surrounding as the unit is manufactured from metal structure thus it is very rugged, reliable and highly durable.

#### **How does EAS work.**

Electronic Article Surveillance system (EAS) is a kind of electronic anti-shoplifting system that can decrease shoplifting when retail enterprise implement open-shelf sale this in-return increase sales and profit. EAS system consists of electronic sensors (transmitter and receiver), deactivator system and label or tag. Electronic sensor that are located at store exit and entrance transmitter (TX) will send a unique RF signal at certain frequencies to a receiver (RX) which creates a "RF surveillance zone" around the store exit/entrance. When a product with an active label or hard tag is moved past a this sensor surveillance area, the sensor will detect this tags and sets off an alarm. Radio Frequency (RF) is the most popular and common technology in today EAS system, it adopts Radio Frequency as Transmit and Receive signals, the detection frequency ranges from 7.x~8.xMHz. The advantage of RF EAS system is cost effective.

#### **Intelligent Digital Identification Technology**

PDS3210 series of digital RF sensor using AD transform technology sampling the simulative signal high-speed, prosecuting computerized signal intelligent identification (CSDM) label under noisy background. It is different from the simple parametric technology that it only identifies the spectrum and the functionary periods of label signal. At the same time, it increase filter and decrease noise

circuit in these new technology compared with traditional EAS system. With this new technology implemented in PDS3210 sensors it increases the sensitivity but prevent low and false alarm at the same time.

### **Securitex/Promatic PDS3210-LCH system for library environment and clubhouse equipment monitoring.**

Securitex/Promatic PDS3210-LCH is designed to track the movement of books and media from leaving the library and club-houses without proper registration and accountability.

### **Securitex/Promatic PDS3210-SDVR system integration with Digital Video recording system**

Securitex/Promatic PDS3210-SDVR has an added advantages above the competitors system is because our system are also design to integrate seamlessly with the store CCTV surveillance system, Thus when the EAS system detected an unpaid item is taken out of the store, the store digital video recording system will starts to record the images of the entrances and exit. These images can be later view to narrow down the suspect.

### **Securitex/Promatic PDS3210-EC system used in the field of elderly cared patient in homes.**

Securitex/Promatic PDS3210-EC can also be use in the field of human movement monitoring application. In serve cases of senile dementia patients, normally they will wonders of the premises without the staff and doctors noticing them. At Securitex our system will be able to alert the respective doctors, nurses or caregivers when this patients wonder of the premises. The system will be able to sent out a signal to the caregivers and corrective action can be taken before this patient wonders off and get lost.

### **Securitex/Promatic PDS3210-CC system used in the child care environment**

Securitex/Promatic PDS3210-CC can also be use in the child care centre to monitor the movement of the children within the centre. Many time children get lost when they wonder off the premises without the teachers and attendance noticing them. At Securitex our system will be able to alert the respective centers attendance when this children play nears the doors or when strangers try to bring the child out of the centre . The system will be able to sent out a signal to the caregivers and corrective action can be taken before this child wonders off and get lost.

### **Technological parameter and specifications**

Bandwidth	7.7-8.7Mhz
Scan frequency	162, 171, 180 and 189Hz (optional frequencies can be request as well)
Signal Sampling rate	21.8us
Inspection distance	soft label 1.2 meters and Hard tag 1.5 meters
Detect speed	0m/s
Optional Frequency	8.2Mhz and 10.5Mhz
Alarm Volume	High, Medium, Low (Can be adjusted)
Alarm Tone	Quick and slow (Can be adjusted)
Dimension	1650X304X85 (mm)
Optional Colour	Black Orange Vein and Silver gray

### **Hard Tag Detacher**

#### **PD805 Detacher**

The surface magnetic intensity is  $\geq 4500\text{Gs}$

**Diameter** : 10cm **Height** : 4cm

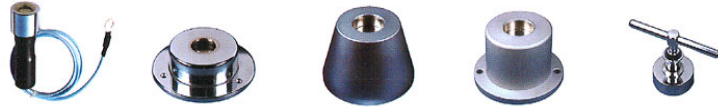
**Nd iron boron** material of strong magnetic power is used on the detacher magnetic core and is suitable to be use to detach all kinds of hard tags, CD/cassette protector, bottle/cigarette protector and so on...



**Advantage:** The advantages of this detacher is that the surrounding magnetic field produce from this Detacher is very weak and it won't influent the performance of the surrounding equipment such as credit card, barcode reader, POS machine etc....



**Standard Detacher**



**Strong magnetic detacher**

**PD806 PD804 PD804 PD804C PD801 Detacher Key**

**Soft label (detection range up to 1.2 meters)**

Securitex/Promatic can provide all kinds of EAS soft label that can be stick to the surface of merchandise that needs to be protected. It can also be put together with the packaging material of merchandise so it can protect merchandise conveniently.



Hard tag on merchandized



Soft label



Hard tags on PC

**Hard tag (detection range up to 1.5 metres)**

Securitex/Promatic also provides many kinds of hard tags for repetitive use and need to use special detacher to detach it from the merchandise.



**PT310 48mm PT311 62mm PT311 46mm PT314 49X43mm PT316 42mm PT317 42mm PT318 65mm**



**PT350 50mm PT351 50mm PT355 48X65mm PT352 57X70mm PT356 65mm PT701 Lanyard (work with hard tag)**



**CD Holder with tag**

**Handhold  
Detector**

PT1000

- It conform to the active design of human body construction
- SMT technology, detection range is up to 10cm
- Respect customers and avoid frisking.



**Handheld detector (body search)**



**Cigarette Protector**



**Cassette safer**



**CD safer**



**Milk Can safer**



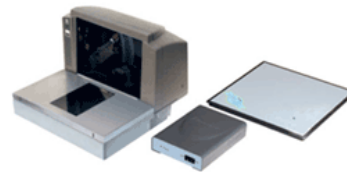
**Bottle safer**

### Soft label Deactivator

#### **PD950 Deactivator**

- SMT technology, high-efficiency contactless soft label Deactivator
- Highest deactivate range: 30cm
- Decoding speed: 120/minut
- Can be compatible with the most usual type of POS barcode scanner in the market
- Advanced inner-lock function
- With warning advice function (need customize)

When hard tags or un-deactivated label pass through Deactivator pad, the deactivator will send out alarm indication, it will advice cashier detach security label from merchandise in time.



#### **Deactivator Pad**

The Deactivator pad can be setup as one pad to deactivator or 2 Deactivator pad to 1 deactivator



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**Download EAS system catalogue for management presentation [Page 1](#) & [Page 2](#)**

**Note to all retailer:** We welcome retailer and business owner who want to implement the EAS system but do not have much knowledge on this system. You can contact us at 67852171 or email us at [sales@securitex.com.sg](mailto:sales@securitex.com.sg) our technical sales personnel will be available to assist you in this area. Feel free to contact us even if it is for a single exit store request.

#### **Securitex Electronic Systems Engineering**

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