
EBRAX
ATM SECURITY LLC

INDEX

INTRODUCTION

EBRAX ATM SECURITY LLC. constantly updates the Anti-Skimming technology to keep up to date with new forms and types of attacks.

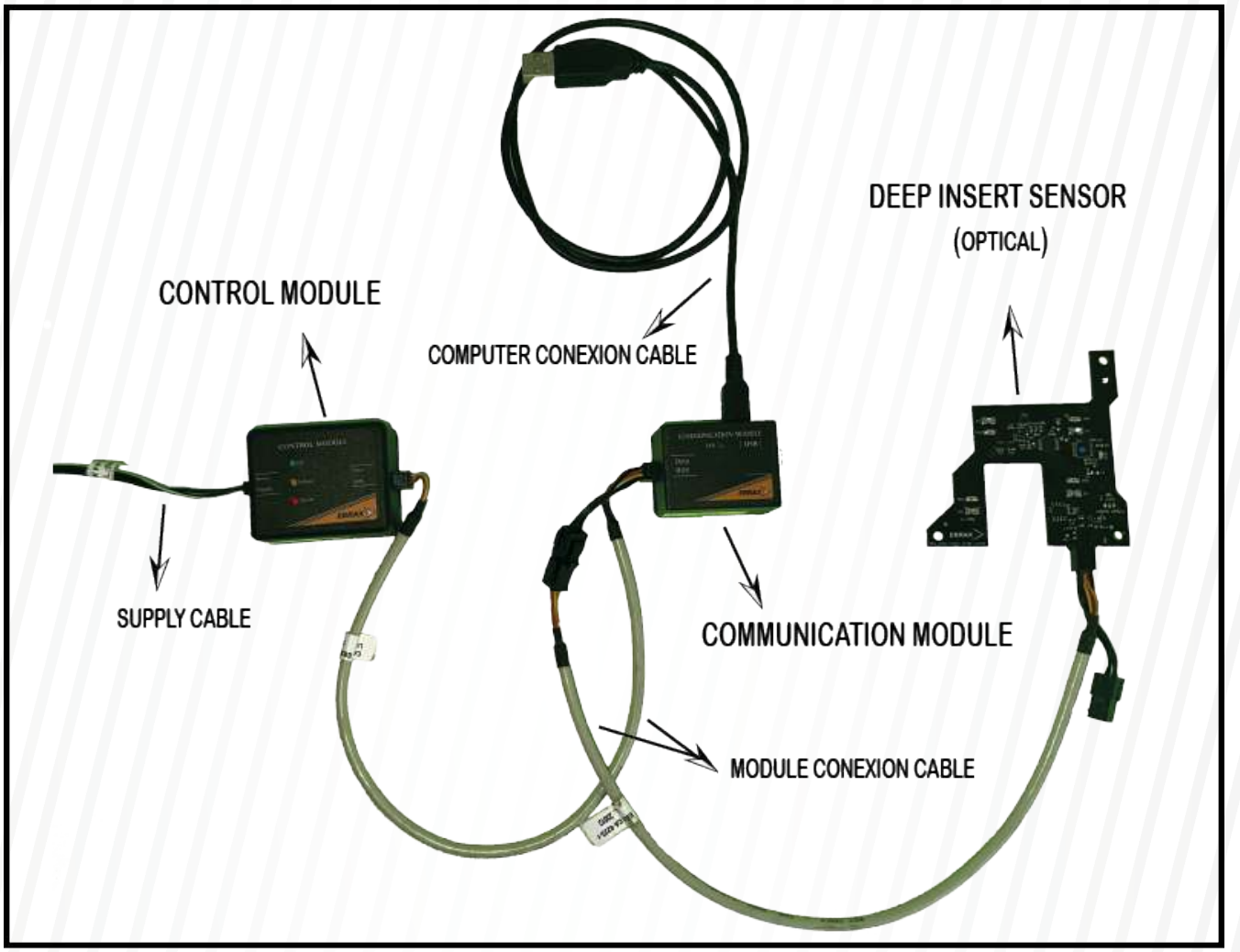
The security and protection of customer information at ATMs remains a critical concern in the industry, **EBRAX ATM SECURITY LLC** is continually innovating in Anti-Fraud Technology to keep the information contained in consumers' cards secure so that every ATM experience they have is with peace of mind, confidence and security.

Today, ATM fraud protection involves not only securing the Bezel with AntiSkimming devices, but also protecting the Card Reader against Deep Insertion Devices. Shimming or the use of "Shimmers" -deep insertion devices- involves the placement of smaller and more sophisticated devices inside the Card Reader which cannot be detected by conventional AntiSkimming devices.

Given this situation **EBRAX** developed the **DEEP INSERTION FRAUD DETECTION KIT**.

This KIT uses the latest in anti-fraud technology and the New Generation of EBRAX OPTICAL sensors

1. DEEP INSERT FRAUD DETECTION KIT

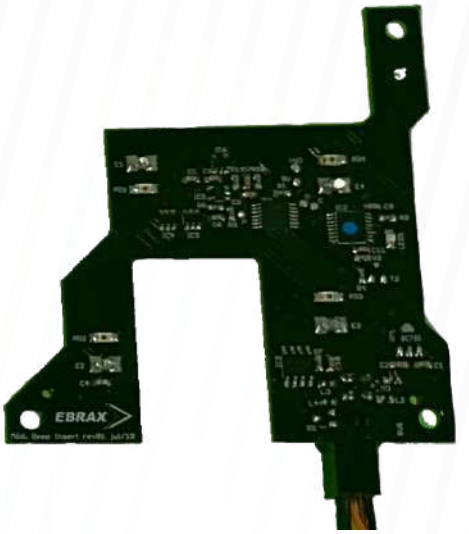


1.1. Part List

EBX COM 2040	Communication Module
EBX MCT 2010	Control Module
EBX MSO 2050	Deep Insert Sensor
EBX CA 4099	Supply Cable
EBX CA 4091	Computer Communication Cable
EBX CA 4222	Module Conection Cable

2. OPTICAL SENSOR – Deep Insert Sensor

The Deep Insertion Sensor is installed inside the card reader and monitors for the presence of any foreign objects. It focuses on the detection of "**Deep Insert Skimmers**" or also called "**Shimmers**".



- **Reflective infrared optical solution;**
  This makes the solution more stable and less sensible to environment light changes.

- **Fraud detection based on variation of reflection levels on four areas along the card slot;**
  Covers all the inner area of the card slot.

- **Compatible with all versions of Ebrax Anti Skimming;**
  A wide variation of outputs and signaling options makes it compatible with all systems.

- **Does not affect normal reader use;**
  As any mechanical change in the card read is not needed, the reading operation is unaffected.

- **Provides configurable extra delay before signalizing an alert to the control unit;**
  During normal operation, a customer card will be detected. To avoid false-alarms, a configurable extra timer delays alert signalization, allowing only long-time detected objects trigger an alarm.

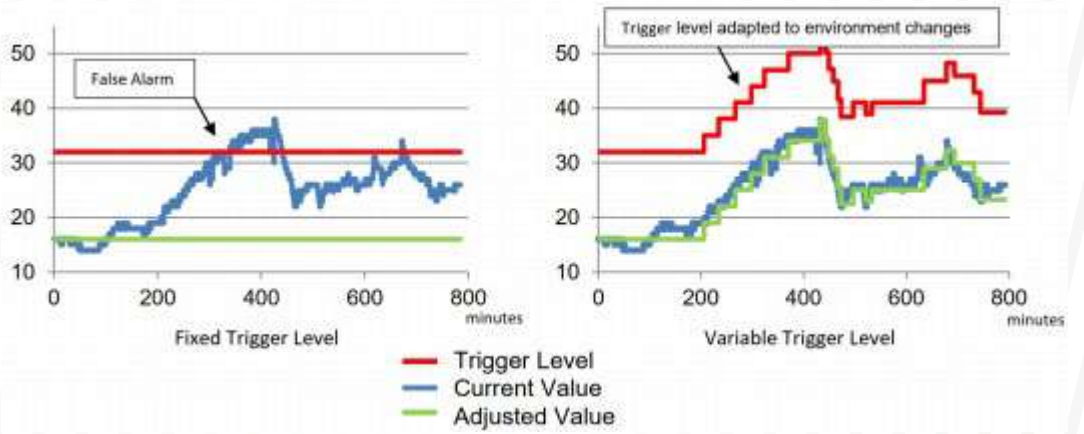
- **Sensibility and detection levels customizable;**
  Some environments may require specific customization. With configurable sensibility and detection trigger level, the sensor can be customized to any environment conditions.

- **Dip and motorized card readers supported;**
  Adaptable to any card reader model, with only mechanical changes in sensor needed.

- **Can detect any type of material;**
  Based on an optical technology, all kind of material are detected.

- **Status indicative LEDs;**
  Through an indicative LED, is possible to check if sensor has detected an object, if its operating or calibrating.

- **Proprietary algorithm that compensates slow environment changes, such as temperature, humidity, dust or mechanical wear (variable trigger level).**
  The variable trigger level improves the overall stability due to its capability of adapting the system levels under small and gradual environment changes.



3. SUPPORTED CARD READERS

It is extremely difficult to list all currently supported Card Reader Part Numbers.

There are usually a wide variety of changes in Card Reader configurations that result in a different part number while maintaining their mechanical structure. Important: these changes are irrelevant to our solution.

The most commonly used Card Readers are:

NP Manufacturer:

009-0031447A **Nemo**

V4KU-01JN-N01 **Hitachi**

IFM330-0400 **Sankyo**

VP5300 **IDTech**

All variations of the above Card Readers that maintain their mechanical structure are compatible with our solution.

Listed below are the **NCR** part numbers of the Card Readers used by them:

445-0740583

445-0704253

445-0765159

445-0737837B

445-0737836

445-0765157

All of the above part numbers are compatible.

In the case of any Card Reader that has some particularity -even minimal- that makes the Reader not currently supported by our device, at **EBRAX** we develop any adaptation free of charge in a fast way.

The same happens with the Anti-Deep Insert Shimmers Optical Reader in any type, brand and model of Reader, both DEP and motorized.

We can adapt our solution to any type of Card Reader having such equipment (which does not need to be in functioning). This way we can adjust the geometry, the electronics and the insertion position in the Card Reader in a minimum of time and with no charge to the Customer.

Following is a list of some of the ATM model numbers to which we have recently supplied our Deep Insertion Skimmer detection solution:

NCR: SS22 series, SS23 series, SS80 series, 2012, 2062, 2064, P72, P72

Diebold: 500, 520, 522, 522, 522, 720, Opteva 1720, Opteva 1500, Opteva 1520, Opteva 1522

Wincor: Procash 280

OKI: Adatis

HYOSUNG MX5600S & MX5600ST

Our Anti-Skimming solution is multi-vendor. It may require only a minor modification of the antenna geometry to fit any ATM model.

We have about 40 antenna models developed. In case none of them fits your model, we can customize our solution quickly and free of charge.

EBRAX ATM SECURITY LLC

EBRAX ATM
SECURITY LLC.

·901 N. Market St. suite 705 Wilmington,
New castle county. Delawere 19801·

Mailling Address
777 Brickell Ave. Suite 1210, Miami, FL, 33131

info@ebrax.net

+549 11-6743-6697

www.ebrax.net