

SMARTCONCEPT

Powered by CTcoin™

The world's
most versatile
coin counting
system

Ultra fast. Ultra precise. Ultra flexible.

- ✓ Intelligent sensor with built-in processing
- ✓ 2000 samples per second
- ✓ API for application integration
- ✓ ccTalk standard
- ✓ USB connectivity
- ✓ Detection using multiple coils at various frequencies
- ✓ Multiple simultaneous currency acceptance
- ✓ Deutsche Bundesbank Eurosystem approved



ADVANCED SIMPLICITY

The SMARTconcept is CTcoin's 6th generation of EMS coin detection sensors. It is comprised of a powerful intelligent sensor, adaptable controller boards, and a comprehensive software package. The SMART technology is the basis for a previously unseen and state-of-the-art coin detection capability.

Advanced and customizable detection

Ample amounts of quantitative and qualitative data are key for high performance coin detection. The SMARTsensor is a powerful and intelligent sensor operating with several EMS coils at multiple frequencies. Complicated currencies, counterfeits, and foreign coins are now easily identified.

Our custom sensor setups can be adapted to accept, sort, and reject for your specific needs.

Ever evolving feature set

The SMARTconcept provides a range of new and beneficial features such as remote updating of firmware, tools for analysis and diagnostics, acceptance of multiple currencies at the same time, one-sensor-fits all, tilting sensor for easy cleaning, and much more.

The entire design is geared towards continuously adding new features and functionalities.

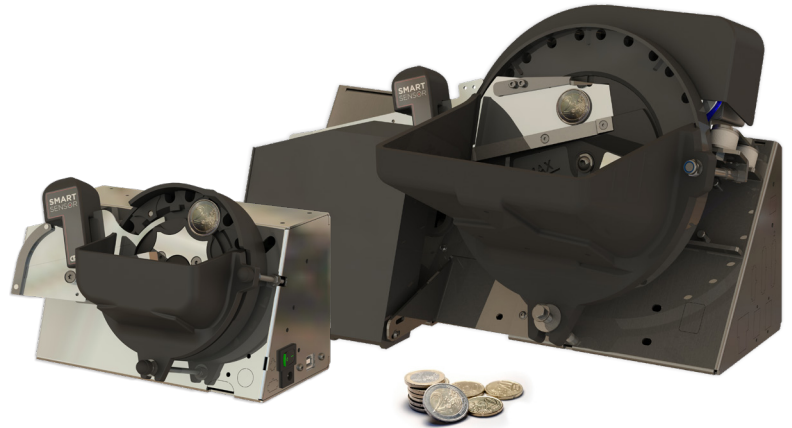
Seamless integration

Implementing the CTcoin OEM SMART coin technology into any application is easy and straight forward. CTcoin provides developer kits including STEP files, SMARTsuite software, protocols and API for application integration.

The SMARTconcept communicates with the application over USB, using the ccTalk protocol. CTcoin supports and guides from project start so that the most optimal solution is chosen and integrated into the main application. The adaptable SMARTconcept enables field re-configuration of machines to combat unforeseen complications.

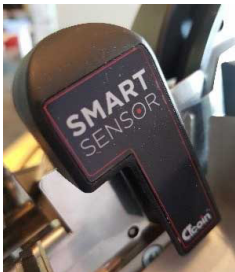
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THE SMARTCONCEPT FOUNDATION

SMARTsensor and SMARTcontroller



The SMARTconcept introduces a digital sensor, which uses a trio of EMS coils to sense and identify coins at high speed. Detected coin data is passed to the SMARTcontroller which handles ccTalk communication and coin module control. A connected computer retrieves the data from the controller for use in your application, either through ccTalk over standard serial communications, or using CTcoin's ccTalk API.

SMARTsuite



SMARTsuite is CTcoin's new unified desktop application for the SMARTconcept. It's intended for use in demonstration and validation of machine functions, machine configuration, coin set-up and updating, as well as data collection and

analysis. SMARTsuite is supported on both Linux and Microsoft Windows and is equipped with a variety of technician and administration functions. SMARTsuite is an intuitive tool when integrating the CTcoin SMARTconcept into any coin application. The SMARTsuite is delivered as part of the developer kit.

Mechanical modularity

The SMARTconcept supports the mechanical modularity and flexibility for which CTcoin is renowned. Depending on the required counting/sorting speed CTcoin offers either the Basic series (1.100 cpm) or the Compac series (250/300 cpm) onto which modules and functionalities can



be added depending on the requirements and wishes. Modules and functionalities such as sorting per denomination or as mixed coins in consecutive containers/bags/hoppers, straight or curved sorting rails, cleaning of debris from the coins, insert functionalities such as coin conveyors or coin trays, influx sensors, overflow (active sorting of predetermined coins/denominations), escrow, reject chutes, etc. This modular, building block principle allows you to tailor the CTcoin coin module precisely to the application specifications.

Please visit www.ctcoin.com and discover all the possibilities of the world's most advanced coin detection solution.

EXPERIENCE AND INNOVATION AT ITS FINEST

In cooperation with Innovation Fund Denmark, the University of Southern Denmark and a number of competence partners, CTcoin has developed the SMARTconcept – a coin counting technology for sophisticated coin and cash handling systems. The project has been the largest and most advanced development project ever undertaken by CTcoin and will give all system providers/OEMs a cutting edge technology and a competitive advantage.

CTcoin™

Tel. +45 63 12 75 50 | ctcoin@ctcoin.com

RELIABILITY, DURABILITY & ACCURACY