

Confidex RFID Tags Serve To Locate Stolen Bicycles

New Confidex Silverline Slim™ UHF RFID labels enable easy remote identification of stolen bicycles.

Zetes, the European expert in supply chain, identification and mobility solutions, has been appointed supplier by Speos NV, a daughter company of bpost (the Belgian postal and courier services provider) for an innovative traceability solution based on Confidex's Silverline Slim™ product. The solution, named CycloSafe, was developed around a clever idea to equip mailmen of bpost with mobile reader devices to track and locate lost bicycles. The solution uses passive UHF RFID technology: two Confidex Silverline Slim™ RFID labels are installed on the frame of a bike to enable easy remote identification of stolen or misplaced bicycles.

Stolen bicycles are a large problem in many European cities where people are increasingly using their bikes to commute to work and elsewhere. A growing number of people use bicycles not only to stay fit but also to avoid traffic jams and to minimize traveling costs. For many, the bicycle may also be a significant investment.

What had been missing until bpost introduced their solution, was a workforce that could cover large areas in cities to identify the possibly stolen bicycles. The co-operation between bpost and Zetes is a remarkable example of how new technologies can bring added value for traditional postal services and to communities around us.



New all-purpose UHF RFID tag for securing electrical devices, tools or industrial assets



Confidex Silverline Slim™ **all-surface UHF RFID tag**

- Type: EPC Global Class1 Gen2 (ISO 18000-6C)
- Read range up to 4 m / 13 ft.
- Size:
110 x 13 x 0,8 mm / 4.33 x 0.51 x 0.03 in
- Ambient temperature range:
-35°C to +85°C / -31°F to +185°F
- Customer specific encoding and printing
- IP 68, washable
- Great compatibility with RFID printers

The RFID system for this traceability solution required a special UHF RFID tag — a new fit-for-purpose on-metal label was designed and produced using the latest UHF technology.

“It was a privilege for us to be invited for this project by our partner, Zetes. As a high-end specialty supplier of RFID tags and labels, this project was in our sweet spot: we successfully developed the UHF RFID label against very demanding requirements. Taking the label into use is made easy and it has proven itself to provide constant, reliable readings when attached to a metal bike frame. We were happy to see that the system works according to the plan”, says Jarkko Miettinen, Vice President of Sales at Confidex.

“Confidex’s UHF RFID label, Silverline Slim, was specifically chosen for this project due to its performance and the fact that it met all the key project criteria. In addition to its superior reading distance when in actual use, Silverline Slim was cost efficient and is easily embedded in the special plastic housing used on bicycles. Every stolen bicycle found with the CycloSafe solution will not only save someone’s day but will also increase the awareness of the benefits of RFID”, stated Geert Peeters, Project Manager for the CycloSafe at Zetes.

The new Silverline Slim belongs to Confidex Silverline product family — a set of all-surface UHF RFID special labels of various sizes. It is ideal for applications on which the suitable label width is particularly limited, for example applications involving different kinds of industrial or enterprise assets, pipes, tubes, cables, electrical devices or tools.