RFID MULTI-READERS FOR MAXIMUM FLEXIBILITY IN PARCEL DELIVERY

A helpful neighbor is worth their weight in gold when it comes to accepting someone else's parcel. Erwin Renz Metallwarenfabrik GmbH & Co KG, the Germany based letterbox production company with European leadership, understands that perfectly. And they've found a solution that works even better: By authenticating via Elatec's multi-technology RFID card reader, a registered person is able to collect and send parcels 24/7 with the help of an electronic parcelbox, the "myRENZbox". Thanks to Elatec's comprehensive knowledge of RFID protocols, this authentication process works no matter which protocol is used.

Elatec's card reader enables authentication via RFID, NFC and BLE.

Elatec's TWN4 MultiTech 2 BLE card reader, integrated in the myRENZbox (briefkasten.de).

PRODUCT

The recommended product in this case is the TWN4 MultiTech 2 BLE PCB. For more info:
www.elatec.com/case-parcelbox

SITUATION

In spring 2015, Renz started developing an electronic parcelbox with 24/7 availability for use in private residences, companies and retail. They required a multifunctional authentication solution to ensure convenient and fast contactless handling for the carrier as well as the end-user, either by badge or mobile device.

It had to be compatible with existing facilities which were using solutions that were already equipped with various badge types e.g. access control, secure printing, cafeterias etc.

CHALLENGE

An all-in-one product that covers RFID and BLE (Bluetooth Low Energy) needed to be implemented to accommodate badge and mobile device identification. As Renz operates globally, a wide range of RFID protocols currently in use worldwide needed to be covered, to ensure compatibility with existing authentication solutions.

SOLUTION

Elatec's multi-technology RFID card reader – the TWN4 MultiTech 2 BLE – addresses almost all protocols worldwide (60+), including LEGIC, HID and MIFARE. Renz chose the BLE extension, because this removes the requirement for an additional BLE USB stick with its associated maintenance.

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