



Plug & Trace

Excellent RFID Solutions

VIRTUAL TUNNEL inside

RF-iT™
Solutions

Secure reading on conveyor systems

Situation Today “False positive reads” and Expensive shielding

The currently available UHF Gen2 technology makes new applications possible that require huge read ranges, like shipping gates in warehouses. In addition it is possible to reliably record a high number of tags simultaneously because of the energy efficiency of the technology.

The allocation of single components to their packing unit on a conveyor system is very difficult. Therefore, expensive shielding is necessary to identify every single unit.

Solution

The commonly confined **spatial conditions** present great challenges to RFID-technology. One of these challenges is the **exact allocation** of single units to their packing units. Used in several detego® SUITE modules the “VIRTUAL TUNNEL” is a reliable solution for this problem. With it up to 50 components can be allocated clearly to their packing units, without reading packing unit tags. The distance between the packing units on the conveyor should be at least 50 cm at a conveying speed of up to 1m/sec.

Another functionality of the “VIRTUAL TUNNEL” is the distinction of UHF tags which are read in the immediate proximity of the conveyor from those, which are actually transported on the conveyor.

This function allows the successful handling of the phenomenon called “**false positive reads**” known especially with regards to UHF technology.

The whole solution is realised with standard RFID-components, light barriers and suitable software logic using **detego® You-R OPEN**. For specific client applications our detego experts are available for you.

The solution can be carried out with one or more antennas, depending on the distance, reading and space requirements, in order to achieve 100% reading accuracy.

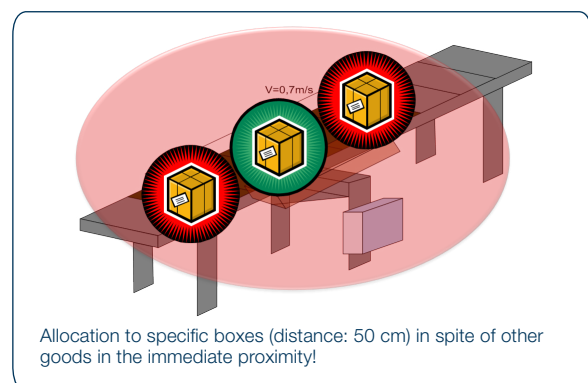
Customer Benefits

- ▶ Simple mechanic construction
- ▶ Exact allocation of single units and packing units
- ▶ Minimal amount of hardware components necessary
- ▶ Achieve optimal reading rates
- ▶ Protection against “false positive reads“ for conveyor systems
- ▶ Your solution without expensive shielding

Easy Start

- ▶ VIRTUAL TUNNEL inside detego® SUITE modules
- ▶ Short implementation time
- ▶ Easy integration into existing software environments
- ▶ detego experts advise and support you with fine tuning

Selective reading through detego® You-R OPEN based filtering



RF-IT Solutions is certified partner of Microsoft and SAP and official solution provider of GS1.



SAP® Certified
Integration with SAP Applications

