tranSpeed® Vehicle identification

The vehicle identification system for long ranges

tranSpeed ® Vehicle identification

Identify vehicles reliably

The fast and reliable long range identification solution automatically identifies both drivers and vehicles in any weather conditions. Queues in vehicle access and exit areas are a thing of the past. Ideal for car parks, traffic management and free-flowing vehicle access control. The technology is also suitable for monitoring rail traffic as well as vehicle access barriers in city centres, airports and at toll roads. Thanks to numerous interfaces it is possible to inte-grate tranSpeed® seamlessly into other control systems – but it can also be used as a stand-alone solution. There is a wide range of transponders available; these include robust heavy-duty transponders, self-adhesive stickers for windscreens and ISO cards, which perfectly combine two reader technologies.

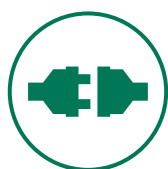# Precise, accurate, high performance

Benefits at a glance

Intuitive guidance

Large LEDs and unambiguous signal tones give the user distinctive visual and audible feedback.

Security

A specially developed vignette/sticker function in combination with deister's "smart frame" ensures data security as well as protection against manipulation.

Dual Technology

Combine vehicle and person access control systems in a single card. It is possible to integrate both technologies into the same transponder and achieve maximum range.

Optimal positioning

The POC makes the field strength visible at every position. That makes it child's play to find the best position for the transponder.
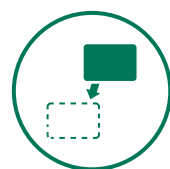
Plug & Play

The compact design including integrated antennas means it is possible to connect standard power and data lines to the readers by means of a single connector.

Made in Germany

All products are made in Germany. Their function and quality are developed, produced and tested to the highest standards.

Videos and more information can be found at: **www.deister.com/long-range-identification**

Transponders for the windscreen
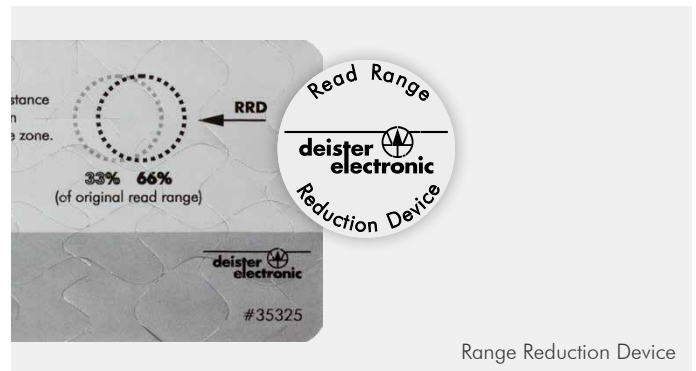## Self-adhesive with vignette/ sticker function

In addition to the encrypted deister "smart frame" for data security the windscreen transponder for vehicles identification features a vignette anti-tamper sticker function; this is an additional safety measure to prevent the transponder from unauthorised use if torn off.

The specially designed Windshield Tag allows for optimal range through the windshield of up to 6 m with a TSU 200 reader. To maintain a consistent range across different vehicle types, the transponder is equipped with a range adjustment feature. RRD stickers can be applied at marked points. This function makes it possible to reduce the identification range by either 66% or 33%. This ensures that different vehicle types are reliably detected at the same distance from the reader.

Windshield-Tag

✓ Fraud proof – tear proof

✓ Adjustable range

✓ „smart frame" – data security

Range Reduction Device

POC – Proof of UHF-Communication
Make RFID fields visible

A common challenge when installing a UHF long-range identification system is positioning the readers and transponders to ensure a reliable detection of all vehicles. The POC (patent pending) represents an optimum solution to this challenge. Essentially, the POC behaves precisely like a transponder would. The integrated LEDs display the available level of communication at every position within the range between this process allows you to quickly and effectively find the best possible position for the transponder.

POC for passive systems

TSU Series

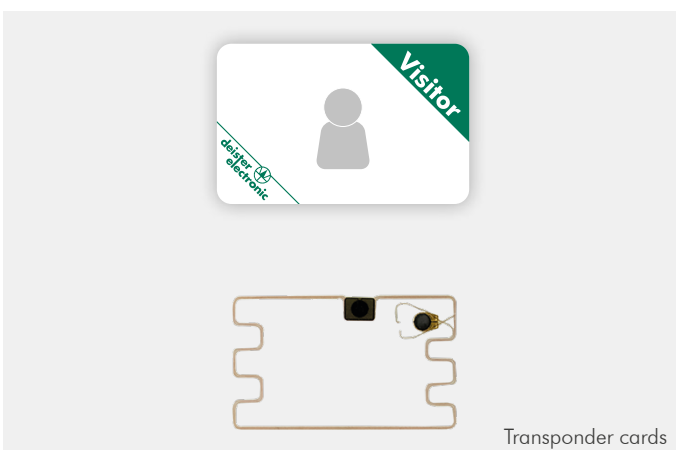Passive long range identification

TSU 200

Distinguishing features of our TSU readers include extremely robust die-cast aluminium casing and the compact design with integrated antenna. The TSU 200 / 220 boasts a range of 7 m. Our portfolio of passive transponders has been specifically developed for different materials to ensure it is also possible to achieve the best-possible range on glass or metal.

✓ Compact design with integrated antenna

✓ Robust aluminium case

✓ Automatic reader trim function

ISO- and dual technology cards

Passive ident media

Transponder cards

The special, patent-pending antenna layout in the ISO card allows it to be positioned in any orientation and can be worn in close proximity to the body without compromising range. Additionally, dual technology cards are available enabling the use of a highly secure MIFARE® DESFire card which works conveniently on our long range readers.

✓ Dual-technology option

✓ Works close to body

✓ Sun and temperature resistant for extra long lifetime
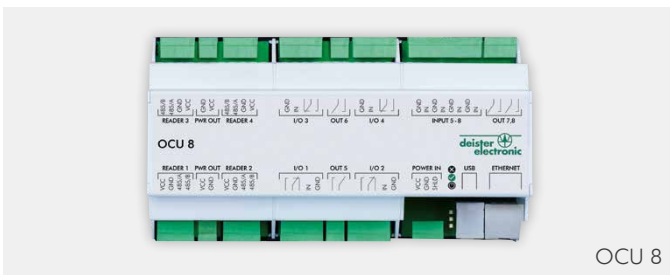
Bumper-Tag

Passive UHF-transponder

UDC 160

The UDC 160 is a passive UHF transponder. It is equipped with an antenna technology that allows it to be mounted directly on metal and to be read over a complete radius of 180°. The large reading angle as well as the reading range of 5 m are perfectly suited for applications in logistics or vehicle identification.

✓ Optimized for mounting on metal

✓ IP 67 for difficult environmental impacts

✓ Robust design

Controller and converter

Modular and flexible

OCU 8

Multi-barrier and door controller

Controllers such as the OCU 8 complete the tranSpeed® system. The mounting rail-compatible controller is primarily used in the area of access control. For increased security requirements, a secure end-to-end encryption can be provided. Authorizations are configured conveniently via the „Commander Connect" software.

STC 1
STC 1 P

DCU 2

Single barrier and door controller

The Linux-based STC 1 controller is available with an Ethernet or optionally a PoE interface, for the integration into the already existing network. The RS485 interface enables the connection of locally installed devices. Thus, the STC 1 has all the performance features required for use in our cloud-based access control solutions. It can optionally be supplied with a PoE power supply. The PoE supply is sufficient for the DCU 2, two readers and a door buzzer. This allows one to two doors to be supplied cost-effectively without additional components.

The DCU 2 door control unit is equipped with two potential-free relay outputs and four inputs, two of which are designed as „supervised inputs". This allows for up to two doors to be controlled. The integrated RS485 interface is used for communication with other components.
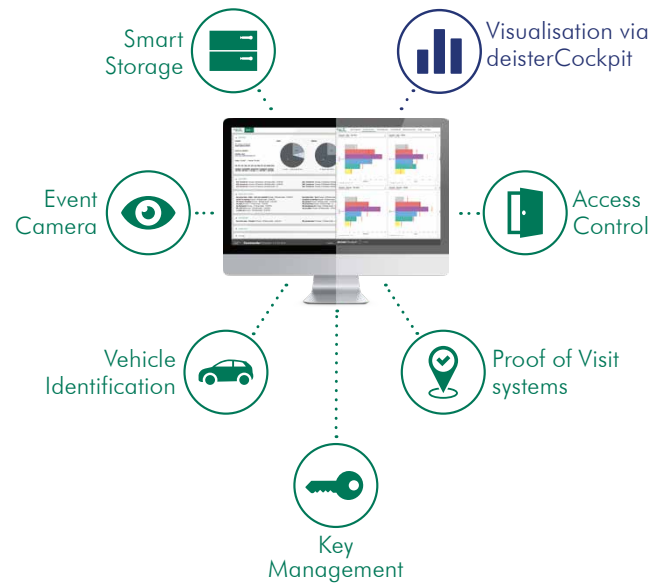
Interface converter

SIC

The SIC is able to convert the incoming data from the reader into another format or protocol as well as to integrate tranSpeed® components into an existing system. On the input side, the communication is encrypted via the deBUS protocol. On the output side, Wiegand, Data/Clock, Magstripe, RS232 or RS485 interfaces with many customer-specific protocols can be supported.

Commander Connect & deisterCockpit

Configuration, control and reporting system

With the Commander Connect software, all deister systems can be centrally managed and configured. Information is collected centrally and can be viewed at any time. Reports are individually configurable and can be exported easily in the form of email, PDF and other file formats.

The deisterCockpit provides the ability to analyse the data generated in the system and output it via widgets. Targeted analysis algorithms and intelligent data processing enable statistics, overviews and key figures to be determined, which you can use to visualize and optimize your business processes.

Smart Storage

Visualisation via deisterCockpit

Event Camera

Access Control

Vehicle Identification

Proof of Visit systems

Key Management

tranSpeed® Areas of application

This is where tranSpeed® comes into play

Vehicle identification

Due to various transponders for different surface materials and positions, all types of vehicles can be reliably identified.

Parking space management

Automate the entry and exit and fully utilize your capacities. Optimize your parking space management.

Vehicle access control

Effective and reliable management of vehicle fleets. Always know when vehicles are on site and when they returned.

Connection to other systems

Uniform interfaces and protocols facilitate easy integration with systems, such as authorised access control and camera technology.

About deister electronic

deister electronic is an innovative, family owned global business with 40 years of experience in developing electronic and mechanical products for security and industrial automation. Widely acclaimed for our expertise and specialist implementation of RFID technology within practical applications, from key management and access control to logistics and process control.

deister electronic GmbH

Hermann-Bahlsen-Straße 11
30890 Barsinghausen, Germany
E-Mail: info.de@deister.com
Tel.:   +49 5105 516111
Fax: +49 5105 516217

For more technologies and solutions, visit: www.deister.com