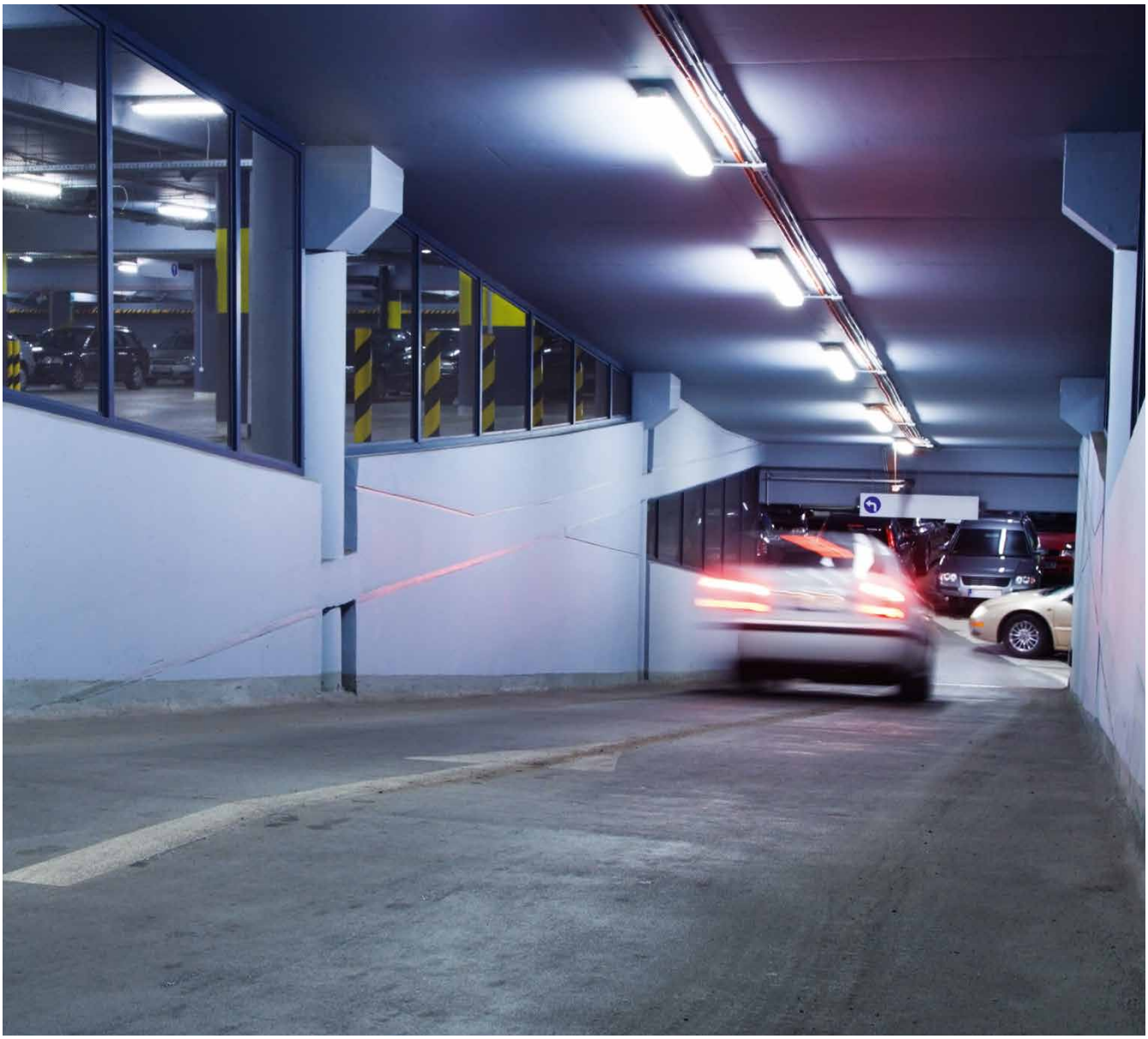
deister electronic

tranSpeed® Long range identification

Identify vehicles reliably



tranSpeed® Long range 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 integrate 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.

Test – instead of trial and error

The so-called 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 further information are available at: **www.deister.com/vehicle-identification**

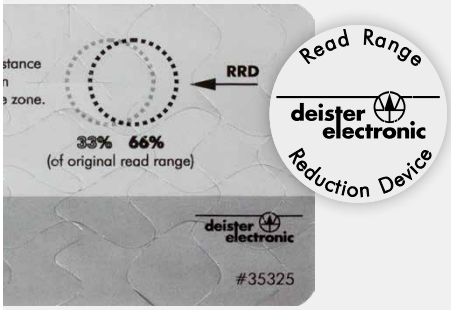
Transponders for the windscreen

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 / sticker function; this is an additional safety measure to prevent the transponder being torn off.
The specially developed antenna facilitates optimum ranges through the windscreen as far as 6 m with the TSU 200 reader. To achieve a constant range in conjunction with different vehicle types the transponder is also equipped with a function to adapt the range. For instance, RRD stickers are affixed to the marked positions. This function makes it possible to reduce the identification range by either 66% or 33%. That ensures it is possible to identify different types of vehicles at the same distance to the reader.

Windshield-Tag

- Fraud proof – tear proof
- Adjustable range
- "smart frame" – data security



Range Reduction Device

POC

Make RFID fields visible

When installing a UHF long range identification system the challenge is always to place the readers and transponders in the best possible position to ensure all vehicles are reliably detected. The POC (patent pending) represents an optimum solution to the challenge.
POC behaves precisely the same as a transponder. The integrated LEDs display the available level of communication at every position in the field between the reader and transponder. Finding the best-possible position for the transponder is quick and effective. The POC is available for both passive and active transponders.

POC for passive and active Systems

TAL 700

Active long range identification

The TAL 700 generates an adjustable identification field that will penetrate most materials without itself being shielded. That means this active system is particularly suitable for applications in which it is necessary to identify vehicles at an unfavourable angle to the reader – or the windscreens are covered with a special film to protect against the sun and for reasons of passenger privacy.
With a range of up to 7 m the TAL 700 is suitable for all typical applications such as parking-space management and vehicle access control at car park barriers.
The active transponder TPA 8014 has an ISO card format and a battery life of up to two years. The user is able to replace the battery by simply undoing two screws – and reduce costs by continuing to use the transponders time and again.
The transponders can also be equipped with a second passive technology. That makes it possible to use the TPA 8014 in applications supervising vehicle access and people accessing buildings.

TAL 700


TPA 8014

TSU series

Passive long range identification

Distinguishing features of our TSU readers include extremely robust die-cast aluminium housing and the compact design with integrated antenna. The TSU 200 boasts a range of 7 m, the TSU 100 3 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.
The special layout (patent pending) of the antenna integrated in the ISO card means it can be carried either way round as well as close to the body without impairing the range. Dual technology cards are also available with near field and long range readers for enhanced levels of convenience.

TSU 200 TSU 100

Windshield-Tag

ISO-Card

Bumper-Tag

Controller and converter

Modular and flexible

IDC 2 v2

Controller

The tranSpeed system is rounded off by controllers such as the IDC 2. The control unit is top-hat rail compatible and provides encrypted interfaces for tranSpeed readers, floating contacts for vehicle access and exit barriers as well as light signal control systems. Configuring authorisation levels is made easy with the software “Commander Connect”, which is connected to the IDC 2 via an IP interface.

SIC 1-3

Converter

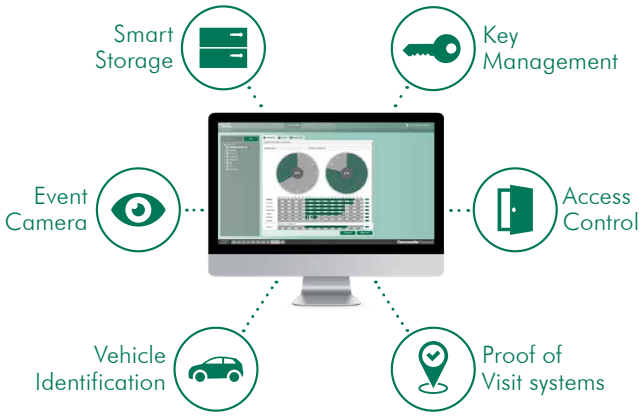
Interface converters are able to convert data received from a reader to a different format or protocol as well as to integrate tranSpeed components into an existing system. The deBUS protocol is used to encrypt communication on the input side. Wiegand, Data / Clock, Magstripe, RS232 and RS485 interfaces are supported on the output side by several customer-specific protocols.

Commander Connect software

User management, control and reporting

With the Commander Connect software, all deister systems can be centrally managed and configured. Information is collected centrally and can be called up at any time. The output of individually configured reports takes the form of e-mail, print file or export in different file formats.

The assignment of user rights and application-related functions can be done with just a few mouse clicks.
The client-server architecture allows site-dependent operation via the web browser and minimizes hardware requirements and costs. The connection to third-party systems is made via web services or customer-specific interfaces, which allows the Commander Connect to be optimally integrated.



Fields of application

tranSpeed – fields of applications

Vehicle identification

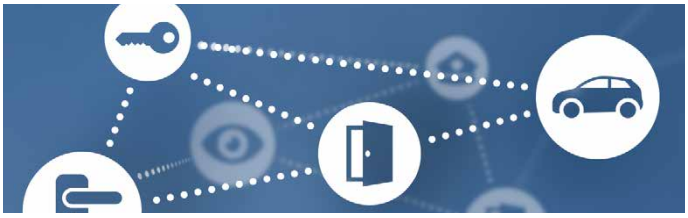
A diverse range of transponders is available for different surfaces and positions to ensure it is possible to reliably identify all types of vehicles.

Parking space management

Automate access and exit to make the best use of available capacity. Optimise management of your parking space.

Vehicle access control

Effective and comprehensible management of vehicle fleets. It is always known which vehicle is on site and which vehicle has left.



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 (HQ)

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

Find your international contact:

www.deister.com/contact

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