

## tranSpeed® Long Range Vehicle Identification

### Identify Vehicles Reliably – Long-Range Identification Made Simple

The fast and reliable long-range identification solution automatically identifies both drivers and vehicles in any weather conditions. Congested lines at vehicle entry and exit areas are a thing of the past. tranSpeed is ideal for car parks, traffic management and free-flowing vehicle access control (AVI). The technology is also suitable for monitoring rail traffic as well as vehicle access barriers in city centers, 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.

[us.deister.com/paladin](https://us.deister.com/paladin)



#### 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 within the same transponder and achieve maximum range.



#### Intuitive Guidance

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



#### 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.



#### 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.



#### Made in Germany

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

# tranSpeed® Long Range Vehicle Identification Components



## 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 7 m using a 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.

**POC Makes 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.

## TSU reader series (Passive long-range identification)

— TSU UHF readers include incredibly robust die-cast aluminum housing for a compact design with integrated antenna. The TSU200 boasts an upper range of 22 feet and the TSU100 with a range of 10 feet.

The tranSpeed 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 with the ISO card means it can be carried either way round as well as close to the body (unlike most UHF transponders) without impairing the range. Dual technology cards are also available with near field and long range credentials combined for increased operational efficiency.



## TAL 700 reader (Active long-range identification)

— The TAL 700 generates an adjustable identification field that will penetrate most RF shielding materials. This active system is particularly suitable for applications in which it is necessary to identify vehicles at an unfavorable angle to the reader – or the windshields are covered with a special film to protect against the sun



or for reasons of passenger privacy. With a range of up to 22 feet, 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 and the commonly available battery can be replaced by the owner to reduce costs. The transponders can also be equipped with an additional near field credential technology. That makes it possible to use the TPA 8014 in a combined vehicle and PACS application.

**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 and dry contact relays for vehicle access and exit barriers as well as light signal control systems. Configuring authorization levels is made easy with the software "Commander Connect," which is connected to the IDC 2 via an IP interface.



**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.

## Paladin — Authorized Value Added Reseller

deister electronic Value Added Resellers provide comprehensive solutions, incorporating deister's innovative technologies into your overall security and physical access control solution. Whether you are looking to integrate your deister solution with an existing Physical Access Control System, or operate as a standalone system, Paladin can help you get the most from your investment.



Contact your Paladin and deister Team at [us.deister.com/paladin](https://us.deister.com/paladin)