

tranSpeed®

Vehicle identification systems and components

Fast, reliable and accurate long range automatic vehicle or driver identification eliminates traffic queues at entrances and exits providing positive identification in all weathers. Ideal for parking, traffic management and hands-free driver access or to control restricted traffic in city centres and airports. The technology can also be applied to railways and toll roads. tranSpeed seamlessly integrates to other control systems using standard interfaces or can operate as standalone solution. Wide choices of transponders are available including rugged tags, self-adhesive windscreen labels and cards.



Active transponder

The TPA is an active transponder, which was developed for use together with the locator TAL 700.

Upon entering the transmission range of a locator the transponder is woken by a coded 125 kHz signal, which also carries information about the location of the locator. Once woken by the TAL 700 the transponder responds with its ID and the location code it received.

The wake-up range in conjunction with the TAL 700 is as much as 7 m. The low-frequency wake-up field facilitates use behind a vehicle windscreen shielded against UV rays, for example with V-Kool™. It is also possible to detect the transponder inside of the vehicle.

Your benefits at a glance:

- **Secure data transmission**
- **Customer can replace the battery**
- **Possible to use in shielded vehicles**
- **Long battery life**
- **Optional passive 13.56 MHz inlay**

Technical data

| | |
|-------------------------------|------------------------------------|
| Dimensions WxHxD: | 54 x 85 x 6 mm |
| Housing material: | ASA |
| Protection class: | IP54 |
| Operating temperature: | +5...+60°C |
| Relative humidity: | 5...95%, non-condensing |
| Power requirement: | 1 x CR 2450 |
| Frequencies: | |
| TPA 80xx | 125 kHz / 433 MHz |
| Operating range: | Up to 7 m |
| Fix Code | |
| TPA 8014: | Active |
| TPA 8024: | Active / mifare Classic / 1 kB |
| TPA 8034: | Active / mifare DESFire EV1 / 8 kB |
| OTP | |
| TPA 8114: | Active |
| TPA 8124: | Active / mifare Classic / 1 kB |
| TPA 8134: | Active / mifare DESFire EV1 / 8 kB |