

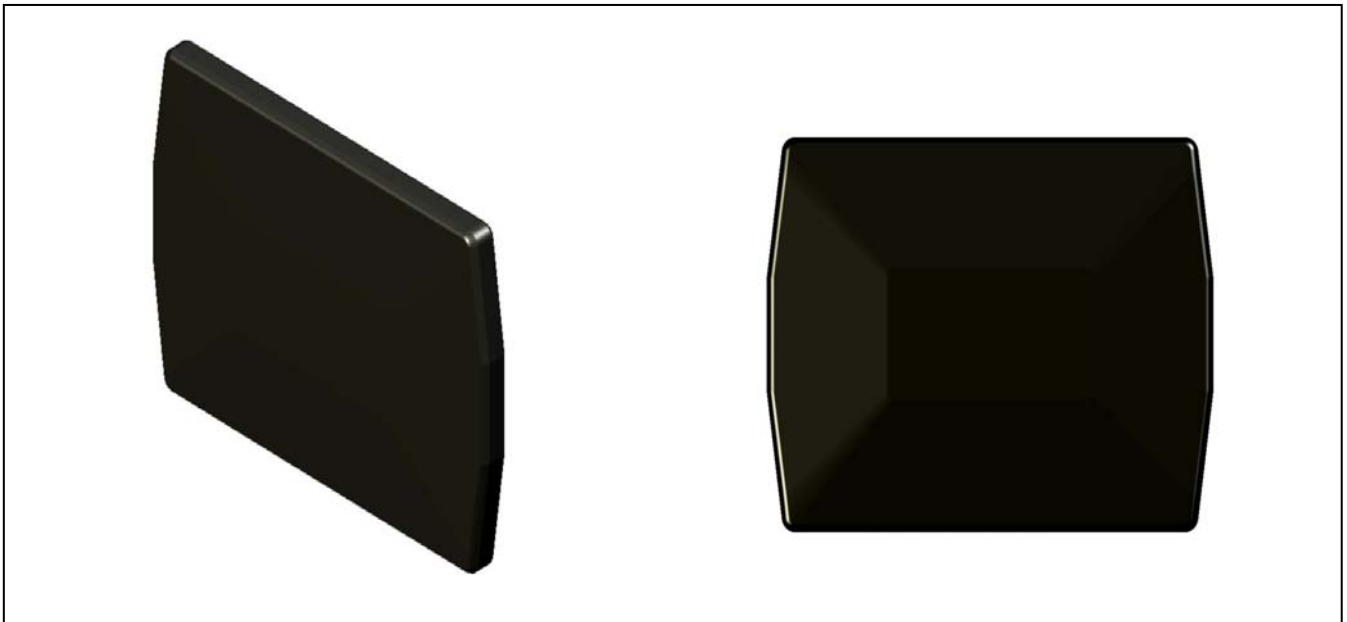
## ID tags T10 and T10S

*Scirocco AB provides infrared-based ID systems with directional, ultra-compact readers and tags without a battery. Powered by LEDs in the reader or by a separate energizer, the tags can be read at large distance. The zone is well defined, without blind areas and unaffected by metal structures, electromagnetic interference and adjacent readers.*

T10 and T10S are two mechanically identical ID tags, where T10 is optimized for range and code size and T10S is optimized for speed. The ID codes are sent out 10 (20) times per second, meaning that a tag is read at up to about 10 (20) km/h with an R10 reader and an E65/E70 energizer. R10 reads E65/E70-powered T10 (T10S) tags at up to about 3 m (2.5m) in dim light, or if powered by daylight.

The tag signal is directional with a beam that suits most installations, and if two tags are present in the communication zone, both are read. To eliminate substitution errors, each ID frame has a checksum of adequate length. T10 has a unique 10-digit ID-code, while the ID code in T10S is six digits long.

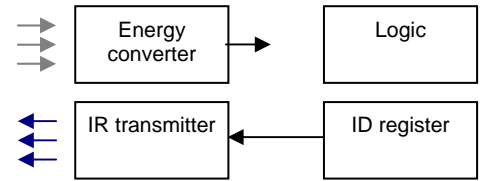
The ID tags can be used in moist environments, resist most chemicals and have a sturdy design with good tolerance to shock and vibrations. Fastening is easy with mounting pad A85, e.g. for long-term attachment to a painted surface. The pads are chemically stable and can be removed even many years after the installation. Users with handheld applications appreciate that the tag is designed for easy pick-up and comfortable holding.



- 10 or 6-digit ID code
- 10 or 20 reads per second
- No battery
- 3 m reading range
- Tag multiplicity
- No substitution errors
- Metal and EMI safe
- Watertight and robust
- Compact design

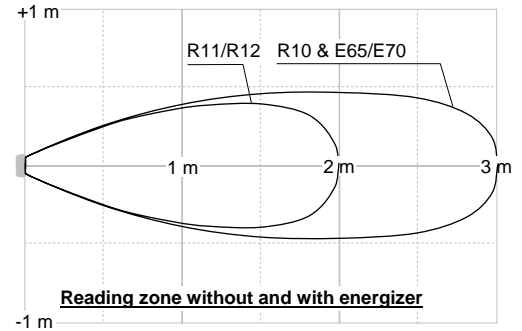
## Working principle

T10 and T10S have a built-in photovoltaic converter for internal energy management. As soon as the ID tag is exposed to infrared light, tag logic makes it transmit its ID code and CRC.



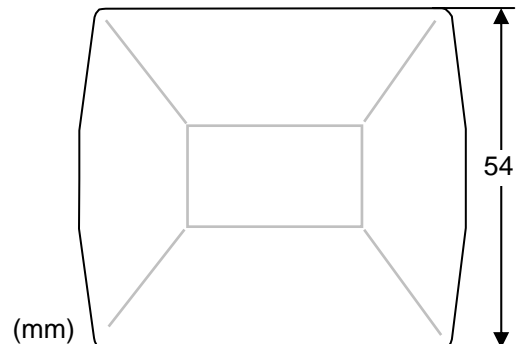
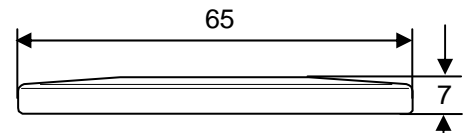
## Performance data

The diagram shows typical reading zones with T10 in a system with R11 or R12 readers, as well as with an R10 reader and a complementary energizer E65 or E70. The Technical Manual gives more details in relation to the reading range and passage speed performance under different conditions.



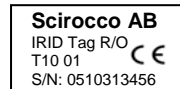
## Mechanical data

The cover material is made from a black, chemically, UV and impact resistant polycarbonate. The back surface is marked with the type code and serial number. T10 and T10S can be hand-held or fastened with mounting pads to the back- or front surface. The weight is 22 g.



## Environmental data

Temperature	-20 to +70 °C (operating)
Temperature	-40 to +85 °C (storage)
Humidity, non-condensing	95 %
Protection (IEC 529)	IP 68
Solar rad. (IEC68-2-5 Sa C)	56 days 1120 W/m <sup>2</sup>
Bump (IEC 68-2-29 Eb)	1000x 10g 6ms x 3dir
Drop (IEC 68-2-32 Ed)	10x 1m on concrete
Vibration (IEC 68-2-29)	0.02 g <sup>2</sup> /Hz, 0.5 h x 3 dir, 10-2000 Hz
Immunity	EN 61000-6-2:2001 10/3 V/m, 4/8 kV ESD, 1kV transient
Emission	EN 61000-6-3:2001 30/37 dBuV/m @ 10m



## Accessories

Mounting pad A85 is available for damage-free, long-term fastening to glossy surfaces such as on vehicles.

## Ordering codes

IRID tag R/O 'Tablet'	T10	Pad mounting, optimized for range and ID code size
IRID tag R/O 'Tablet'	T10S	Pad mounting, optimized for speed
Mounting pad, round	A85	1 mm x 15 mm

DST10H

In a continuing effort to improve our products, Scirocco AB reserves the right to change specifications and features without prior notice.