

Security Expert Proximity Standard Key Tag



The Security Expert Proximity Standard Key Tags are available with either 125kHz or 13.56MHz technology, or as a multi technology tag that combines both capabilities in a single unit delivering maximum compatibility while providing a path forward to the latest technology. The extremely durable, compact design offers the ultimate reliability and convenience, while generic Wiegand output provides flexibility and seamless integration with any access control solution.

Feature Highlights

- Available in 125kHz, 13.56MHz or dual format technology
- Open solution with read / write functionality
- Improve security of existing 125kHz applications with dual technology transition tags
- Overmolded design prevents access to the tag's components
- Environmental rating of IP68 to ensure durability
- Laser etched card numbers
- Available in black and white

Schneider Secured MIFARE

Schneider Secured MIFARE is Schneider Electric's implementation of the MIFARE standard. Card data is protected with a diversified authentication key and encrypted with an AES256 algorithm, effectively plugging the known security flaw in the MIFARE standard.

Other MIFARE formats are also available.

125kHz Technology

125kHz technology offers a lower level of security but due to the lower power requirement and the small amount of data being transmitted, it offers a good read range and a short read time. This allows users to present, swipe, or wave their card in the general direction of the reader to get a successful read.

Ideal Migration Solution

Migration from legacy and insecure low frequency 125kHz technology is easily achieved using the dual technology MIFARE tags that incorporate both the high frequency and low frequency inlays. Dual technology solutions allow migration away from and backwards compatibility with existing solutions allowing customers to maximize credential investment. This allows organizations to transition to smart readers at their own pace.

Support for a number of low frequency products is available.

Convenient

The thin, compact design allows the tag to be carried in a wallet or purse. Use with a lanyard or strap clip for accessibility.

Long Life and Durability

An extremely durable compact design offers the ultimate reliability and convenience, while the IP68 rating means they are resistant to water, heat, pressure and chemicals, making them suitable for the harshest of environments.

Flexible Options

A range of ordering options for true flexibility, including:

- External card numbering (laser engraving)
- Opt for either black or white according to your needs
- Choose from the 125kHz or 13.56MHz models, or the Multi-Technology models that support a wide range of formats.

Technical Specifications

Operating Frequency	13.56MHz, 125kHz
Typical Maximum Read Range	125kHz: 30mm (1.18") MIFARE: 25mm (0.98")
Transaction Time	< 100 ms
Baud Rate	Activation at 106 kbps, Data transfer up to 8484 kbps
Memory Type	EEPROM 2 Kbytes
Memory Structure	Up to 28 applications with up to 32 files per application
Write Endurance	100,000 cycles minimum
Data Retention	10 years minimum
Construction	Thin, black PA6 overmolded plastic
Marking	Laser engraving (optional)
Programming	Factory or field
Additional Security Options	Customer specified format, custom keyset
Environmental Rating	IP68
Operating Temperature	-40° to 85°C (-40° to 185°F)
Storage Temperature	-35 to 85°C (-31° to 185°F)
Dimensions	45 x 30 x 2.4 mm (1.77 x 1.18 x 0.093")
Weight	3g (0.10oz)

Ordering Information

SX-TAG-LF	Security Expert Proximity 125 KhZ Key Tag (Black)
SX-TAG-MF-B	Security Expert Proximity MIFARE Key Tag (S50/1K) (Black)
SX-TAG-MF-HID	Security Expert Proximity MIFARE 13.56MHz / 125kHz HID Key Tag
SX-TAG-MF-W	Security Expert Proximity MIFARE Key Tag (S50/1K) (White)