

eXsmart



A range of serial number and sector Mifare readers ideally suited to access control applications.

Product Features

- Choice of serial number and sector readers
- Choice of mag-stripe (clock and data) or 26-bit Wiegand output
- Compact, elegant style
- Three status indication LEDs
- Low power consumption
- Waterproof
- Easy to install
- Fast and reliable reading
- Suitable for surface or flush mount
- Compatible with UK single-gang box

ACCESS CONTROL

Mifare is a well-established standard for read/write contact-less smart cards

Each card contains 16 sectors, or memory partitions, each of which can be password-protected for both reading and writing data. This makes the Mifare the ideal technology for organisations where multiple independent applications - such as automated vending, canteen, ticketing, club membership, public transport, photocopier control and access control - are in use or envisaged for the future.

Using Mifare means each person carries only one card, instead of one card for each application.

Even when only used for access control, the read-write authentication process that takes place between the card and reader is many times more secure than with read-only proximity technologies, yet at comparable costs.

Whether you chose serial number or sector reading depends on whether you already have Mifare cards in circulation and, if so, whether there is an available sector for the access control application. TDSi will be happy to advise on the ideal solution, whatever your needs.



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eXsmart cards

Cards supplied and encoded by TDSi are doubly secure. Not only is the sector containing the card number password-protected using the Mifare process, but additional security is provided by encryption of the card number itself. Sector 9 is used as standard but an alternative may be specified on ordering. Card numbering is sequential and there is an option to utilise a password unique to your organisation.

eXsmart specifications

| | |
|------------------------|--|
| Technology | Mifare ISO 14443 Type A |
| Operating frequency | 13.56MHz |
| Dimensions | 86 x 86 x 30 (mm) |
| Interface | Choice of clock and data or Wiegand 26-bit |
| Read range | Up to 5 cm |
| Humidity | 5 to 95% condensing |
| Transmitting frequency | 13.56MHz |
| Reader connection | 6 Wire |
| Case | Plastic |
| Temperature | -20°C to +55°C |
| Cable supplied | N/A |
| Buzzer | Yes |
| Maximum cable length | Depends on ACU type. Please contact TDSi for details |

eXsmart part numbers

| | |
|-----------|--|
| 5012-0030 | Serial number reader (black) |
| 5012-0031 | Sector number reader (black) |
| 2920-0180 | Plain white Mifare card no encoding |
| 2920-0183 | Plain white encoded Clock and Data format |
| 2920-0184 | Plain white encoded 26 bit Wiegand format |
| 2920-0186 | eXsmart artwork, encoded Clock and Data format |
| 2920-0187 | eXsmart artwork, encoded 26 bit Wiegand format |

Technical Data

eXsmart sector reader

Sector readers can be supplied for use either with Mifare cards supplied by TDSi, or for use with cards supplied by other manufacturers. This latter case requires that there is either an unlocked sector available on the card, or an available sector with a known password.

eXsmart serial number reader

This reads the unique 32-bit serial number that is encoded into every Mifare card, and is ideal in situations where cards are already in circulation and there is no practical possibility of encoding new data into a free sector.

Data output format

Mag-stripe format (clock and data) is ideal for connection to TDSi access control systems, while 26-bit Wiegand format allows for connection to other manufacturer's hardware. Cards supplied and encoded by TDSi contain a code that determines what format the data is output in. In cases where cards are not supplied by TDSi, sector readers will be customised according to requirements and serial-number readers will have their data output format determined during installation.