



## 3DES Encrypted Access Control

The **BT810** Mifare® Contactless Smart Card Access Reader, with **DESFire** technology, is designed with high secure site installation requirements in mind.

**DESFire** is a new technology that allows **3DES** (Digital Encryption Standard) encrypted RF communication between a **miPASS DESFire** card and access reader, allowing the most secure card transaction process available. It can be applied wherever the ultimate in high security is required, such as Financial Institutions, Military and Government.

Along with standard and custom output, the **BT810** is capable of providing **SEIWG** (Security Equipment Integration Working Group) format used by the US Government.

The **BT810** is a low profile, robust, epoxy filled unit that is built to withstand the harshest of environments and operations. It can be installed in new sites or as an upgraded reader to existing proximity access control systems, interfacing with whatever data output is required for your system. The reader is preset with specific *keys* and only a valid **miPASS DESFire** card with matching *keys* can be read by the reader ensuring that the system cannot be compromised.

The reader incorporates a LED and buzzer that can be configured within the security system to provide visual and audible feedback for confirmation on access control modes.

- **Contactless Mifare® technology.**
- **3DES Encryption.**
- **Programmable as a MAD or Sector reader.**
- **Conventional security wiring.**
- **Fast verification and authentication processing time; less than one second.**
- **Interchangeable with any existing Wiegand access control readers. i.e Prox & Magstripe.**
- **Wiegand or RS485 configuration outputs.**
- **Visual and audible feedback.**
- **IP65 standard finish for internal or external application.**
- **3 year warranty.**

#### Colours Available:



Charcoal



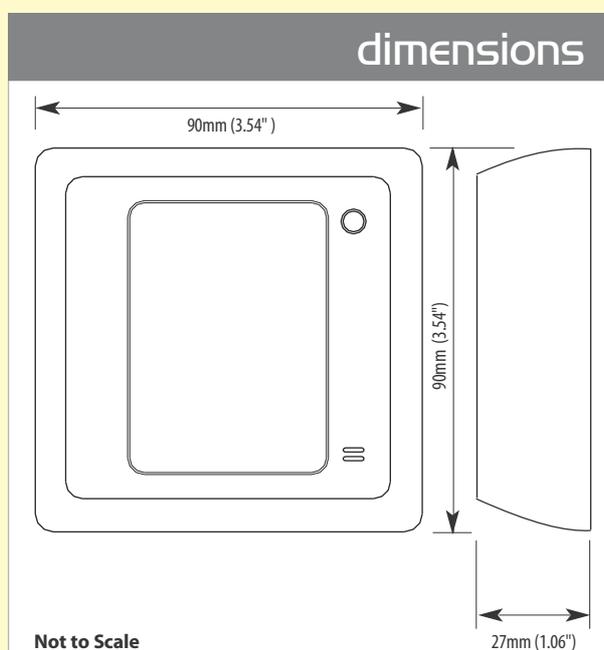
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# specifications

<b>Reader output</b>	Wiegand (custom format) or RS485
<b>Data encryption option</b>	RS485 mode only - AES 128 bit encrypted data when used with BQT's High Secure Module (HSM).
<b>Power requirement</b>	10 - 14Vdc
<b>Normal current consumption</b>	120ma
<b>Activated current consumption</b>	140ma
<b>Read range</b>	10-35mm (0.4" - 1.38") (typically)
<b>Operating temperature</b>	-10°C to + 55°C (14°F to 131°F)
<b>Relative humidity</b>	90% max, operating non-condensing
<b>Reader dimensions</b>	90mm x 90mm x 27mm (3.54" 3.54" x 1.06")
<b>Status LED's</b>	Green & Red
<b>Audible tone</b>	Tone on matching software key and wired external buzzer control
<b>Colour finish</b>	Charcoal & Ivory
<b>IP rating</b>	IP65
<b>Part number</b>	Wiegand = BT810W RS485 = BT810R (specify the format required)

Specifications subject to change without notice.



**BQT offers a complete range of smart card security solutions to suit all logical and physical access control requirements, including highly secure data encryption & biometric technologies.**

**To learn more, please visit our website:**

**[www.bqtsolutions.com](http://www.bqtsolutions.com)**

**Or contact us at one of our global locations.**

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