

# RFID WALL READER BT953



## Product Overview

The BT953 is a stylish standard footprint mullion migration reader. Able to integrate seamlessly with existing systems and facilitate migrating from a 125kHz (PSK) card base to higher security technology such as MIFARE DESFire. The low profile and slimline shape allow for easy installation on door architraves or mullions where larger readers will not fit. It can be mounted directly on a metal door frame with no adverse effect on the reader's function. In addition, the BT953 is available in a range of secure options right up to military grade technology and encryption and provides a flexible solution through customisation to suit all access control requirements.

## Why BQT Solutions

BQT Solutions is a specialist in the development, manufacture and supply of high quality, high security card and biometric readers, electromechanical locks and related electronic security products. Providing high security solutions to verticals such as Airports, Hospitals, Prisons and Government for over 35 years.

*Innovating today for a more secure tomorrow*

## Product Benefits

### Benefit One

The dual technology of the BT953 means organisations looking to upgrade their credential system from an unsecured PSK Prox to a secure MIFARE system can do so seamlessly. The BT953 can read both cards offering a migration solution to upgrading an access control system and when the old technology is done, you can turn it off.

### Benefit Two

Its narrow design offers an aesthetically pleasing, non-obstructive reader that takes up less physical space than traditional cases while being engineered with robust materials to provide effective access control in the most challenging environments.

### Benefit Three

Offering pre-configured and customised operations, the BT953 can be set up to accept your custom key and data formats and is designed to work with your pre-existing security configurations.

### Benefit Four

The BT953 offers installation flexibility and integration with many existing access panels and can be customised to suit a proprietary system. When you receive your reader, all you will have to do is connect them in to secure your site with your existing access control system.

---

## PRODUCT FEATURES

### Compatibility

---

Available with MIFARE Classic and DESFire and PSK 125kHz proximity cards for contactless smart card technology. The BQT Solution's suite of MIFARE Classic & DESFire readers and smart cards opens the gateway to multiple security applications, including access control and biometric authentication. Additionally, the BT953 can read multiple card types making it ideal for companies looking to slowly upgrade their access control system to a more secure credential.

### Robust Design

---

Its sleek casing offers a robust exterior designed to withstand tampering and maintain integrity during a security threat or incident. Built to withstand common reader threats, including excessive force from a hammer or heavy tool, the BT953 will continue to operate and secure access even after being damaged.

### Low Power

---

The BT953 uses power when needed but goes into a standby mode when not in use. Low power paired with high-security access control makes the BT953 reader a preferred product choice for many industry leaders by offering an eco-friendly and economical, yet secure solution.

### Tamper Monitor

---

Security threats aren't always captured on camera and pose a real risk to unauthorised access. We know the peace of mind many organisations need when it comes to alerting them to security threats and the BT953 offers a tamper monitor that will alert the security team if there has been a breach attempt at one of the readers.

### Secure Encryption

---

Working with your current system, the BT953 offers flexible access control, with the option to use Wiegand, OSDP or Encrypted RS485 access data output. The BT953 additional benefits of being cost-effective and easy to wire and deploy across your sites where different levels of encryption are needed for secure access control.

---

## PRODUCT APPLICATIONS

A technology migration reader so ideal for an organisation looking to migrate its solution from low security 125kHz to high security MIFARE DESFire. Suited to any institution with a 125kHz (PSK) card base that is concerned about genuine vulnerabilities through their unsecure system.

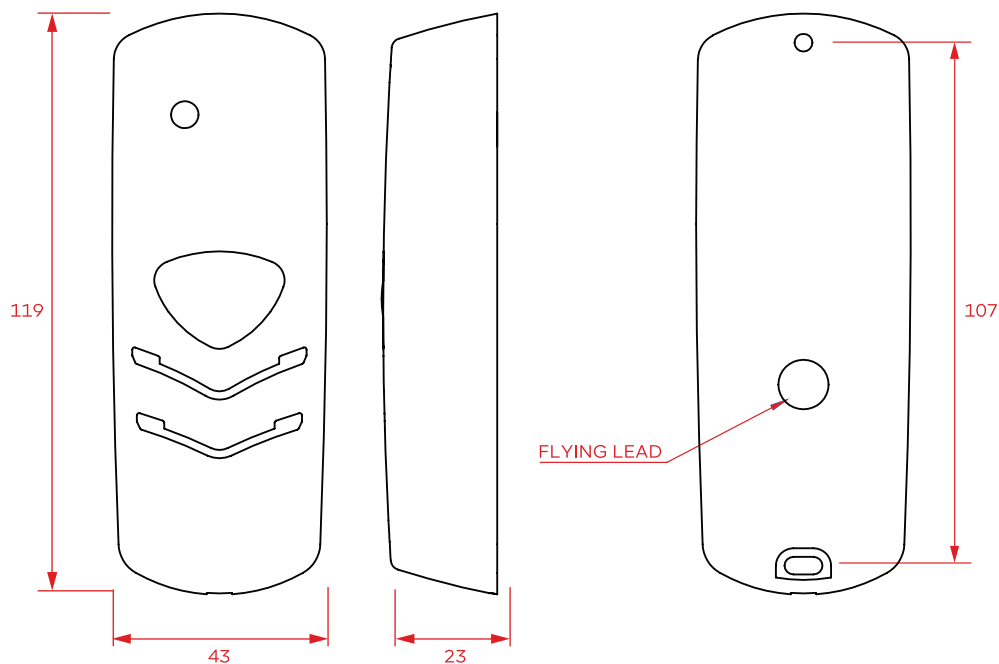


## SPECIFICATIONS

- **Voltage at Reader**  
8VDC to 16VDC
- **Current Usage**  
Average: 120mA  
Peak: 300mA
- **Card Read Range**  
20mm to 40mm (0.8" to 1.6")
- **Operating Temperature**  
-25°C to +65°C (-13°F to +149°F)
- **Relative Humidity (% max)**  
90%, operating non condensing
- **Reader Dimensions**  
119mm (4.69") X 43mm (1.69")  
X 23mm (0.91")
- **Materials**  
Reader / Shroud Body: ABS  
Plastic  
Colour Finish: Charcoal
- **Feedback**  
Green/Red LED, with external control  
Buzzer, with external control  
Tamper detection, optional output
- **Credential Options**  
125kHz (PSK), ISO14443A,  
MIFARE Classic® 1K/4K,  
MIFARE Plus® X 2K/4K,  
MIFARE® DESFire® EV1  
4K/8K, MIFARE® DESFire®  
EV2 4K/8K, MIFARE®  
DESFire® EV3 4K/8K
- **Compliance and Certification**  
FCC, CE, UKCA, RCM, RoHS,  
IP65
- **Reader Variants**  
BT953-1 – CSN Reader  
BT953-2 – miPASS2 Reader  
BT953-3 – Custom MIFARE  
Classic Reader  
BT953-4 – miPASS3 Reader  
BT953-5 – miPASS4 Reader  
BT953-6 – Custom MIFARE  
DESFire Reader
- **Accessories**  
B4015G000000 – BT95X  
Tamper Plate  
B4104G000000 – BT95X  
Replacement Shroud

## DIAGRAM - BT953

Diagrams are not to scale. Measurements are in millimeters (mm).



## MODEL COMPARISON

NAME	APPLICATION	OUTPUT PROTOCOLS	OPERATING TEMPERATURE	READER DIMENSIONS	POWER USAGE
<b>BM680</b>	Sites that are cost sensitive yet still require high security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	85mm X 43mm X 22mm (3.35" X 1.69" X 0.87")	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
<b>BT930</b>	Existing sites looking to upgrade the technology within the same architrave footprint	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	140mm X 47mm X 24mm (5.51" X 1.85" X 0.94")	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
<b>BT950</b>	Installations that require a robust standard form architrave reader	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (4.69" X 1.69" X 0.91")	8VDC to 16VDC, 80mA (Average), 160mA (Peak)
<b>BT951</b>	Any site wanting to migrate from 125KHz (FSK) to MIFARE security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (4.69" X 1.69" X 0.91")	8VDC to 16VDC, 120mA (Average), 300mA (Peak)
<b>BT953</b>	Any site wanting to migrate from 125KHz (PSK) to MIFARE security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (0.91" X 4.69" X 1.69")	8VDC to 16VDC, 120mA (Average), 300mA (Peak)
<b>BT815</b>	Sites needing a standard form gang box reader	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	90mm X 90mm X 20mm (3.54" X 3.54" X 0.79")	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
<b>BT817</b>	Sites requiring dual factor authentication or cardless access	Wiegand, OSDP, RS486	-25°C to +65°C (-13°F to +149°F)	90mm X 90mm X 28mm (3.54" X 3.54" X 1.10")	8VDC to 16VDC, 90mA (Average), 190mA (Peak)
<b>BT853</b>	Sites requiring dual factor authentication or cardless access and on device feedback	Wiegand, OSDP, RS487	-25°C to +65°C (-13°F to +149°F)	157mm X 97mm X 50mm (6.18" X 3.82" X 1.97")	8VDC to 16VDC, 90mA (Average), 190mA (Peak)
<b>BT51X</b>	Installations requiring a discrete yet secure device, ideal for Hospitals and Prisons	Wiegand, OSDP, RS488	-25°C to +65°C (-13°F to +149°F)	Variable, to suit	8VDC to 16VDC, 180mA (Average), 240mA (Peak)

## WARRANTY

Unless specified otherwise, the Company warrants to the Customer that 'BQT Solutions Branded Products' (excluding third party products and software) are covered by a return to base warranty on defects in materials and workmanship affecting normal use for a period of the Warranty offered under the Standard Terms and Conditions of Sale from BQT invoice date ('Standard Warranty')

Information obtained in this document is subject to change without notice. For further technical or sales information, visit our website at [www.bqtsolutions.com](http://www.bqtsolutions.com) or email [support@bqtsolutions.com](mailto:support@bqtsolutions.com)