



Keypad Access Control Reader

Bt-843

The BT-843 smart card reader (Mifare) is a contactless reader designed for security applications where a card and a PIN is required to gain access. Depending on requirements and the level of security, the PIN may be encrypted in the card itself and verified by the reader. The reader reads the data encrypted in the card and sends this information to the door controller to verify the level of access granted to the user before releasing the door. On the BT-843, pre-defined text on the LCD guides the user by displaying the access mode. The LCD can also be programmed to display the location or door name. An internal buzzer and LEDs on the reader provides additional audible and visual indications of the various operation mode. On customizing, the LCD can also be programmed to suit the requirements of the site.



The keypad provides an additional layer of user authentication with the addition of a PIN. The PIN may be stored in the memory of the card and is authenticated by the reader. The reader can be ordered to provide various Wiegand strings output in various formats for retrofitting or for upgrading from a 125 KHz proximity system to Mifare. PIN in the card means that the administrator need no longer manage the individual user PIN. The user defines their own PIN.

The keypad is also used by the user to enter the site specific keys for card authentication so that only cards with matching keys can be used and recognized by the reader ensuring that the system cannot be compromised.

The BT-843 can be installed in new sites or retrofitted as an upgraded reader to an existing 125-KHz proximity access control system, interfacing with whatever data output is required for your system. The proprietary miPass format is pre-set with site specific keys and only a valid miPass card with matching keys can be read by the reader.

As a CSN reader, the Bt-843 provides wiegand strings of up to 40 bits.

The keypad emits a beep with each key press, is light to the touch and easily replaceable.

Standard display format displays *Present Card, Enter PIN, Access Granted, Access Denied, Locked, Unlocked* to guide the user using the reader for access control.

Built to conform to IP-40 for internal use, special outdoor versions with weather shields are available.

- ⊗ Contactless Mifare 13.56 Mhz, ISO 14443A.
- ⊗ Available as MAD, Sector or CSN reader.
- ⊗ Standard wiegand strings from 26 to 40 bits.
- ⊗ Various other data type output available.
- ⊗ Verification and authentication time, < 1 sec.
- ⊗ Visual (LEDs) & audible (Buzzer) indicators.
- ⊗ 2 x 16 character, backlit LCD display.
- ⊗ Read & write capability.
- ⊗ Built-in real time clock.
- ⊗ Also available without LCD (Bt-823)



SPECIFICATIONS

Reader Output	26 to 40 bits Wiegand strings, RS-485, Custom			
Power Requirement	10 VDC to 14 VDC			
Normal Current Consumption	Bt-823	150mA	Bt-843	250mA
Activated Current Consumption		200mA		300mA
Read Range (Typical)	20 to 60mm (0.8 to 2.4 inches)			
Operating Temperature	0 to +55 Degrees Celsius (32 to 131 Degrees F.)			
Relative Humidity	90% Max, operating, non-condensing			
Dimensions	136mm x 161mm x 44mm			
Status LEDs	Red, Amber, Green			

Apollo offers a complete range of smart card application solutions to suit all logical and physical access control requirements, including highly secured data encryption and biometric technologies.

Apollo and its partners products are widely represented,

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Apollo-ESS Pte Ltd
3791 Jalan Bukit Merah, #08-26, E-Centre @ Redhill,
Singapore 159471
Tel: (65) 6376-0660 Fax: (65) 6376-0990