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BT843WN

Contactless Mifare Smart Card Reader

INSTALLATION GUIDE



Installation Instructions

Reader Operation and Output Requirements

All readers follow the same wiring colour coding conventions. Flying leads are integrated into products to provide minimum case dimensions and offer simple installation.

Each reader will read smarctards with matching keys. The reader outputs a specific wiegand bit format dependant on the smart card presented.

Installation Notes

The reader uses a press on outer cover to hide the fixing screws. This cover can be removed by gentle pressure at either the top or bottom of the unit. Pull the outer cover towards you to remove.

It is recommended the reader is installed using secure screw fixings to prevent removal or tampering by unauthorised individuals.

When installed externally the reader should be mounted on a suitable external single gang surface mount box. The flying cables should be securely fixed within this enclosure and protected from water to IP65 (min)

Connection Guide – General 12V Wiegand Reader

BQT readers output wiegand information. This is done through W0 and W1 output lines. The W0 and W1 output lines are designed to over a maximum length of 500 feet.

The first step in installation is to ensure that a 0V reference is established. This means that the 0V of the Power Supply that is connected to the reader will need to be the 0V reference that the Controller uses.

As can be seen on the right, the ground of the reader is connected to both the Power supply 0V and the 0V reference on the Controller. This is due to the case where installations use isolated power supplies for the controller and reader.

Connect the W0 and W1 lines as shown on right. Ensure that W0 and W1 have the correct orientation.

Connect the Input 1 and Input 2 lines as shown on right, to the controller. To control the inputs simply drive to 0V reference.

(Please note; reader configurations may change without notice)

Please ensure that the installation wiring is LOW resistance. This will affect input controls as well as the Wiegand signal if the resistance is severe. I.e. the voltage drop over the wires increases with resistance.

BQT advises that the +12Vdc be connected last.

PLEASE NOTE

DO NOT CONNECT the W0, W1, Input 1 or Input 2 wires to +12Vdc. Damage may occur to the reader by doing this.

Wiring Colour Coding

12Vdc+	RED	Wiegand 0	Green
Ground	BLACK	Wiegand 1	White
Input 2 (Denied)	Orange	Input 1 (Granted)	Brown
RS232 TX	Violet (N.U)	RS232 RX	Blue (N.U)
Ground Ref	Black (N.U)	<i>N.U = Not Used</i>	

