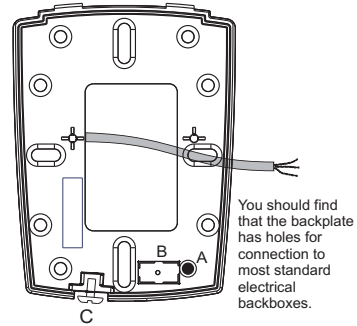


# Installation and User Instructions for S874 Keypad Readers

The S874 is a contactless smart-card reader, with LED's and keypad. The reader can be set to use Wiegand or 20mA current loop communications.

The S874 reader will read smartMAX encoded MIFARE cards and card serial numbers from most ISO 14443A smart cards which have a 4-byte UID (User Identification). The reader may be configured to read other card types by presenting a programming card to the reader during start up.

For additional information regarding the installation, configuration and proper use of this product:  
 SMS User Guide, P/N 9600-0429, M2150 Access Control Design Guide, P/N 9600-0420, M2150 Intrusion Guide, P/N 9600-0540 and M2150 UL1076 Compliance Manual, P/N 9600-0449.



## 1 Mount the Backplate

Mount the backplate using countersunk headed screws adjacent to the opening edge of the door and at a convenient height (recommended height is 5' (1.5m) to top of unit).

If fixing hole 'A' is used then the breakout must be removed and the screw must not protrude.

Feed the cable from the controller through the backplate.

If the wall tamper function is to be used then the small hole in breakout 'B' may be used to mark the position of the wall screw before the breakout is removed. An appropriate wall screw should then be adjusted in height to protrude through the hole to activate the tamper lever.

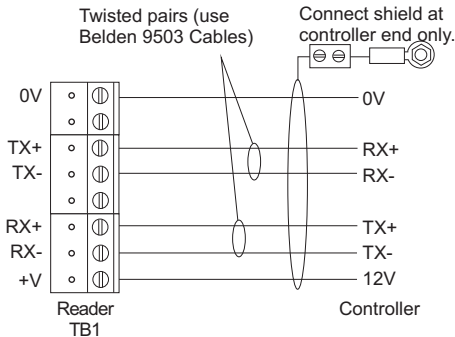
**The securing screw 'C' is integral to the backplate and is unscrewed via the small hole in the enclosure so that the screw head locates in the counterbored holes on the inside of the enclosure.**

## 2 Reader Connections

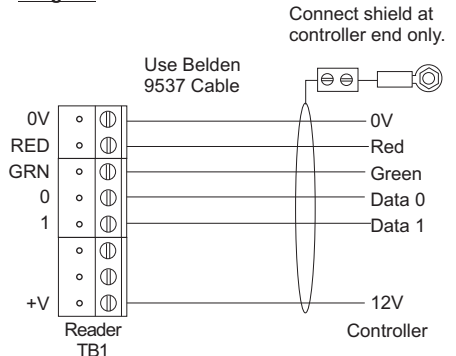
### Note:

- 1). Consult local AHJ (Authority Having Jurisdiction) when installing access control readers and locking mechanisms to any portal in an egress path.
- 2). The use of Fail Closed / secure configuration shall be determined by local building codes and the local AHJ.
- 3). Wiring methods shall be in accordance with NEC (National Electrical Code) ANSI/NFPA 70.
- 4). The Wiegand connections are not allowed under UL1076 unless a separate tamper switch is provided.

### 20mA current loop



### Wiegand



**Note:** Use SW1 switch2 to select the communications mode (See Step 3).

### Note: The FERRITE must be fitted!

Slide the ferrite sleeve onto cable before wiring terminal block. Ferrite to be placed 50mm (2") up cable and held in place with cable ties.

### 3 Switch Settings

Set SW1 switch2 (COM) to W for Wiegand communications, or C for 20mA current loop communications. Set SW1 switch1 F/B - Keypad audio feedback) to 1 for sound on, or 0 for sound off.

### 4 Using the Reader

Present the card face-on to the reader until you hear a "bleep". Cards can be presented in rapid succession; there is no need, for example, to wait for "GREEN LED's" to disappear before presenting another.

If the reader has been enabled for user-code mode at the controller, you can gain access by pressing the × key, entering your card number, then pressing the ✓ key.

#### LED Status Indicator

**GREEN** – The lock is released and you may open the door.

**RED** – You do not have access rights to gain entry, or the reader did not read your card properly (in this case, present it again).

**YELLOW** – Enter your PIN. If you make a mistake, the RED LED's are momentarily displayed, followed by YELLOW LED's, to prompt you to try again.

Please refer to M2150 Intrusion Guide, 9600-0540 for IDS Arm / Disarm procedure.

9600-0596. Installation and User Instructions for S874 Keypad Readers, Issue 1.0x2 12th March 2012. © G4S Technology, 2012.

**FCC Notice:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any unauthorized modification to this device may void the authority of the user to operate it. All trademarks acknowledged.

#### Specifications

Input voltage: 9-14Vdc.

Input current: 120mA @ nom. 12Vdc.

Operating temperature: 14 to 131°F (-10 to 55°C)

Operating humidity: 15 to 90%, non-condensing.

Maximum read range: 4" (100mm).

Approvals: EN302291, EN301489

