Installation and User Instructions for S840 Readers

The S840 is a contactless smart-card reader with keypad, which uses 20mA current loop pseudo-random communications. The S840 is able to read HID® format cards.
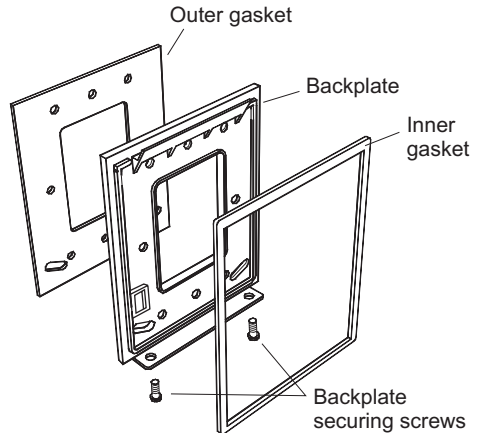

1 Fit the Weatherproofing Kit

When mounting outside, the two-part gasket kit must be fitted:

a) Remove the backplate from the reader by releasing the two securing screws.

b) Remove the cutouts and backing paper from the two gaskets, then stick them to the backplate as shown.
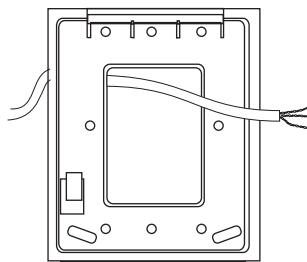
The optional heater kit maintains the reader at the correct temperature when mounted outside. With the backplate off, remove the backing paper from the two elements, then stick them to the inner sides of the reader. The heaters must be connected to a 24V AC supply (min 25VA).

Outer gasket

Backplate

Inner gasket

Backplate securing screws

2 Mount the Backplate

With the backplate off (see above), mount the backplate adjacent to the opening edge of the door and at a convenient height. Feed the required cables through the backplate:

- The cable from the controller.
- The cable from the heater, if used (must be a separate cable).
- A cable from a Remote Interface Module (RIM), if used. A RIM can reduce cable lengths to door furniture.
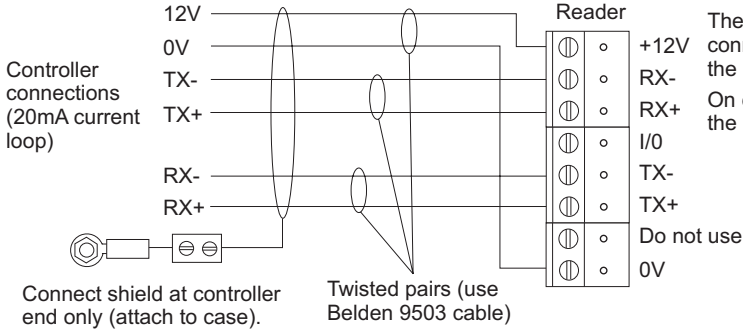

You should find that the backplate has holes for connection to most standard electrical backboxes.

3 Reader Links

Ensure no jumper is fitted across LK2 (TEST). If a jumper is provided, park it across one pin only. LK4 (AUDIO KB FB) - set to 1 for sound on and 0 for sound off. LK1 (LED BR) - set to H position.

4 Reader Connections

Controller connections (20mA current loop)

Controller		Reader
12V		+12V
0V		RX-
TX-		RX+
TX+		I/0
RX-		TX-
RX+		TX+
		Do not use
		0V

Connect shield at controller end only (attach to case).

Twisted pairs (use Belden 9503 cable)

The I/O terminal is for connection to a RIM (see the RIM Instructions).

On completion, re-secure the reader to the backplate.

5 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 to wait for the green or red LED to extinguish 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.

About the Reader LEDs

Green (access granted) LED — When this LED is lit, the lock is released and you may open the door.

Red (access denied) LED — This is lit if you do not have access rights to gain entry, or if the reader could not read your card (in this case, move the card away, then present it again).

Flashing amber (PIN) LED — If the amber LED flashes, enter your PIN. If you make a mistake, the red LED is lit for a moment, then the flashing amber prompts you to try again.

Alarm LED

Switch LED

These auxiliary LED indicators can be configured to operate in conjunction with conditional commands.

Specifications
Input voltage: 9-14Vdc.
Input current (excl. heater): 110mA @ nom. 12Vdc.
Operating temperature: -13 to 158°F (-25 to 70°C) without heater.
Operating humidity: 15 to 90%, non-condensing.
Maximum read range: 6" (150mm).
Approvals: EN50133, R&TTE, IP656.