Installation and User Instructions for S841 Readers

The S841 is a contactless smart-card reader, with LCD and keypad, which uses 20mA current loop pseudo-random communications. The S841 is able to read Texas Instruments™ (ISO 15693) smart cards, and the card serial number on Philips® MIFARE® smart cards.

For either type of card, the S841 supports the use of unencoded cards (where only the unique card serial number is read). In the case of Texas Instruments (TI) cards, an encoded card number can be read. Encoding formats supported include TI's own formats and the "smartMAX" format.

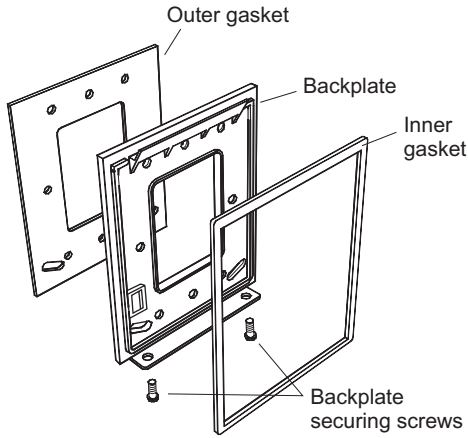
1 Fit the Weatherproofing Kit

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.

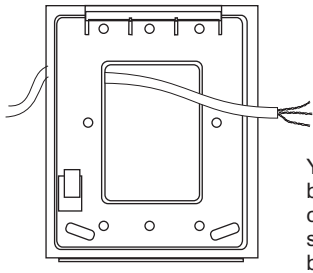
The optional heater kit maintains the reader at the correct temperature when mounted outside. With the backplate off, remove the backing paper from the two elements, then stick them to the inner sides of the reader. The heaters must be connected to a 24V AC supply (min 25VA).



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.

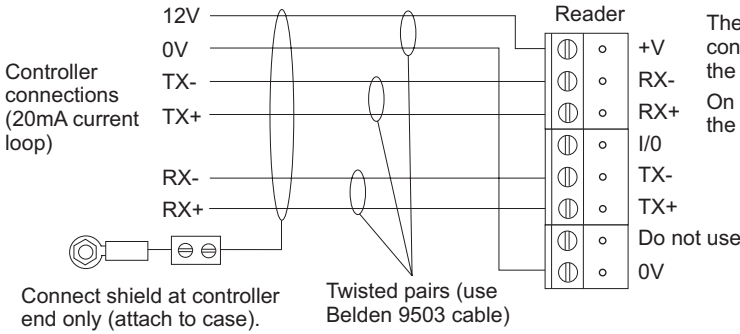


You should find that the backplate has holes for connection to most standard electrical backboxes.

3 Reader Links

Ensure no jumpers are fitted across LK1 (TERM) and LK2 (TEST). If a jumper is provided, park it across one pin only. LK3 (USER FB) - set to 1 for sound on and 0 for sound off.

4 Reader Connections



5 Reader Configuration

A reader Setup menu can be displayed by pressing the * and # keys simultaneously while power is applied. You can use the menu to change the contrast and language used for the LCD (default English). At the prompts, press * for No and # for Yes.

6 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 "UNLOCKED" 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.

About the Reader Messages

READY – The reader is waiting for a valid card to be presented.

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

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

ENTER PIN – Enter your PIN. If you make a mistake, the message INCORRECT PIN is momentarily displayed, followed by ENTER PIN, to prompt you to try again.

(Flashing or steady) – These auxiliary indicators can be configured to operate in conjunction with conditional commands.

9600-0342. Installation and User Instructions for S841 Readers, Issue 1.0x4 20th November 2003.

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. Texas Instruments is a trademark of Texas Instruments Incorporated. Philips and MIFARE are registered trademarks of Philips Electronics N.V.

Specifications
Input voltage: 9-14Vdc.
Input current (excl. heater): 120mA @ nom. 12Vdc.
Operating temperature: -4 to 158°F (-20 to 70°C) without heater.
Operating humidity: 15 to 90%, non-condensing.
Maximum read range: 2.5" (65mm).
Approvals: EN50133, R&TTE, IP656.