

Installation and User Instructions for S849 Readers

The S849 is a contactless smart-card reader with keypad. The S849 is able to read ISO14443 type A, Philips® MIFARE® Classic, MIFARE Ultra Light and MIFARE DESfire smart cards, and provides the option to use Wiegand or 20mA current loop pseudo-random communications.

For either type of card, the S848 supports the use of unencoded cards (where only the unique card serial number is read), or cards encoded with a card number. Several encoding formats are supported.

The reader can simultaneously support two different card types/formats (e.g. non-encoded MIFARE and smartMAX-encoded MIFARE DESfire, or non-encoded MIFARE and smartMAX-encoded MIFARE). The reader is automatically configured to accept the first two card types/formats presented.

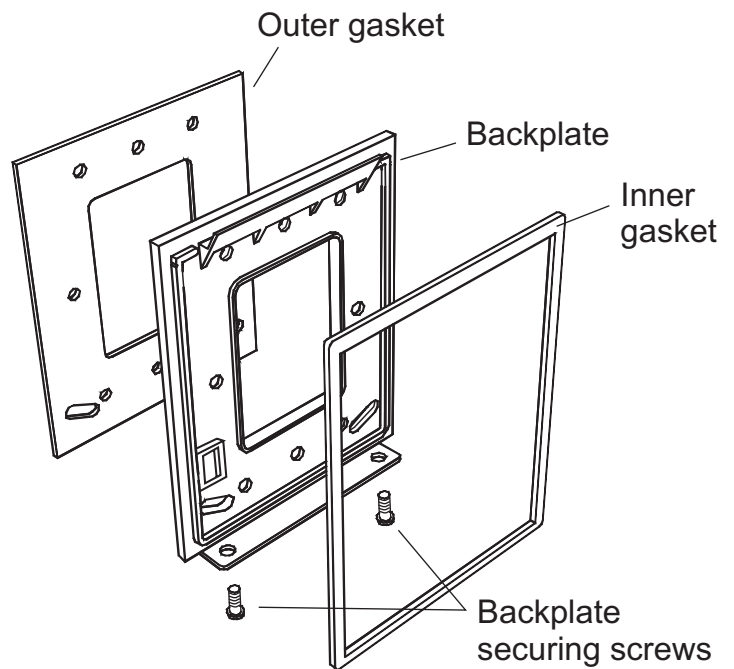


1 Fit the Weatherproofing Kit

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

- Remove the backplate from the reader by releasing the two securing screws.
- Remove the cutouts and backing paper from the two gaskets, then stick them to the backplate as shown.

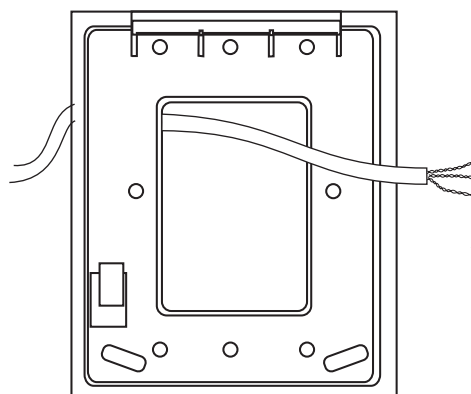
The optional heater kit maintains the reader at the correct temperature when mounted outside. With the backplate off, remove the backing paper from the two elements, then stick them to the inner sides of the reader. The heaters must be connected to a 24V AC supply (min 25VA).



2 Mount the Backplate

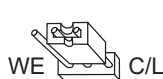
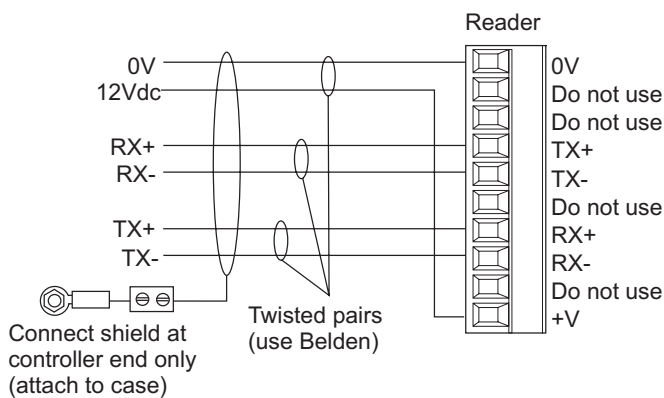
With the backplate off (see above), mount the backplate adjacent to the opening edge of the door and at a convenient height. Feed the required cables through the backplate:

- The cable from the controller.
- The cable from the heater, if used (must be a separate cable).



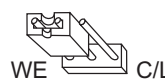
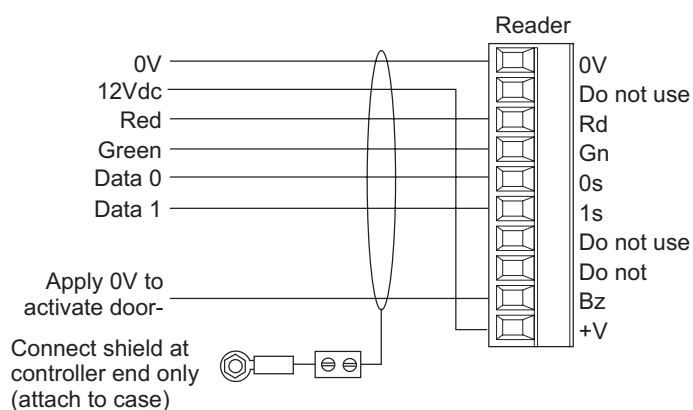
You should find that the backplate has holes for connection to most standard electrical backboxes.

Current Loop Reader Connections



Note: To configure the reader as a 20mA reader, connect the jumper across the center and "C/L" pins of LK1.

Wiegand Reader Connections



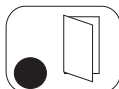
Note: To configure the reader as a Wiegand reader, connect the jumper across the center and "WE" pins of LK1.

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.

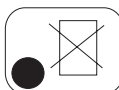
About the Reader LEDs

Green (access granted) LED



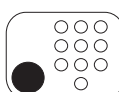
When this LED is lit, the lock is released and you may open the door.

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

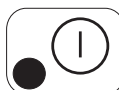


If the amber LED flashes, enter your PIN. If you make a mistake, the red LED is lit for a moment, then the flashing amber prompts you to try again.

Alarm LED



Switch LED



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

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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. HID is a registered trademark of HID Corporation.

Specifications

Input voltage: 10.2-14Vdc.

Input current (excl. heater): 100mA @ nom. 12Vdc.

Operating temperature: -13 to 158°F (-25 to 70°C) without heater.

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

Maximum read range: 5" (125mm).

Approvals: EN300330, EN301489