

Installation and User Instructions for S823 Readers

The S823 is a contactless smart-card reader, which uses 20mA current loop pseudo-random communications. The S823 is able to read Philips® MIFARE® and Philips MIFARE DESfire smart cards.

For either type of card, the S823 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.



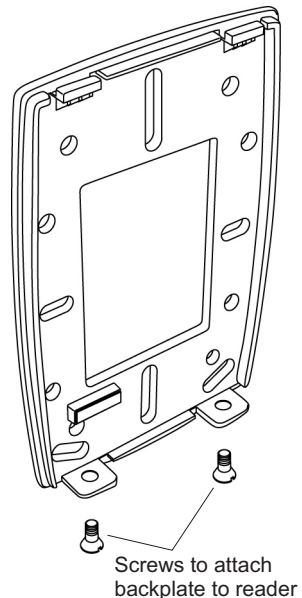
1

Mount the Backplate

The backplate has suitable holes for connection to most standard electrical backboxes.

To mount the backplate:

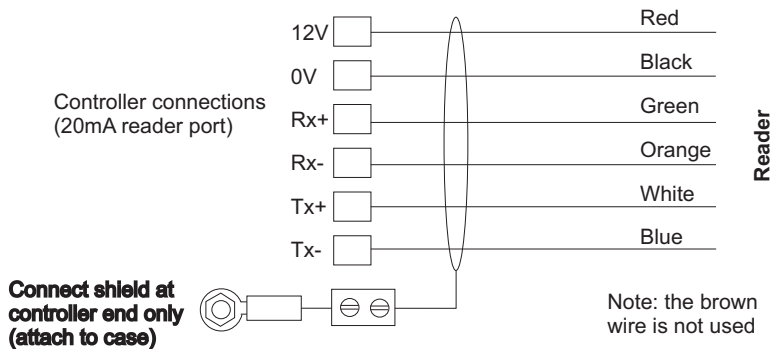
- 1) Remove the two screws taped to the inside of the backplate.
- 2) Mount the backplate adjacent to the opening edge of the door and at a convenient height. Feed the cable to the reader through the backplate.
- 3) Use the screws removed in step 1 to secure the backplate to the main body of the reader (see opposite).



2

Reader Connections

20mA Current Loop Reader Connections



3

Reader Configuration

If the reader needs to read both MIFARE and MIFARE DESfire cards, make sure that one of each card is presented to the reader immediately after the reader has been installed and the cards have been encoded in the Admin/Card Holders screen of the SMS software. The reader supports the first two card formats presented. If the two cards are the same type, only one format is supported.

4

Using the Reader

Present the proximity card face-on to the reader until you hear a "bleep". The maximum read range is typically 0.4" (10mm). If the green indicator is lit, the card has been accepted and the door is unlocked. If the red indicator is lit, either the card has not been accepted, or you do not have access through the door. If the red and green indicators flash alternatively, please wait.

Note: cards can be presented in rapid succession - there is no need to wait for the green or red LED to extinguish before presenting another card.

9600-0407. Installation and User Instructions for S823 Readers, Issue 1.0.1 8th December 2009. © G4S Technology 2009.

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. Philips and MIFARE are registered trademarks of Philips Electronics N.V.

Specifications

Input: 130mA max @ 10.6-12.7Vdc.

Operating temperature: -13 to 158°F (-25 to 70°C).

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

Maximum read range: 0.4" (10mm).

Approvals: EN50133, R&TTE, IP656.