Symmetry™
S823 Contactless Smart Card Reader
Datasheet

KEY FEATURES

▪ Designed to fit most standard electrical backboxes

▪ Reads both NXP MIFARE and NXP MIFARE DESFire smart cards

▪ Supports DESfire EV3 cards in backwards compatibility mode

▪ Typical read range of up to 0.4" (10mm)

▪ Visual indication via LEDs for card accepted and card rejected

▪ Integrated buzzer for confirmation of card read and door pre-held warning

▪ Secure, bi-directional, pseudo-random supervised communications

▪ Rugged polycarbonate design with potted electronics ideal for both outdoor and indoor applications

▪ Lifetime warranty

The Symmetry S823 is a contactless smart card reader designed for government agencies adopting federal personal identity verification standards including FIPS 201. The Symmetry S823 reads both NXP MIFARE® and MIFARE® DESFire smart cards in addition to any badge based on FIPS 201 standards such as TWIC, FRAC, PIV or CAC credentials.

The Symmetry S823 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.

The Symmetry S823 can be connected to the Symmetry door controllers and is compatible with Symmetry Business, Symmetry Professional, Symmetry Enterprise and Symmetry Global Software at version 4.0 or later.

Unlike Wiegand interface readers, the Symmetry S823 uses secure, bi-directional, pseudo-random supervised communications between the door controllers and their associated readers. An alarm will occur if communications are lost.

A distance from any of the Symmetry door controllers to the Symmetry S823 reader of up to 3000 ft (1000m) can also be achieved. The Symmetry S823 has a maximum read range of typically up to 0.4" (10mm).

Other key reader features include LEDs for visual indication of card accepted or card rejected and an integrated buzzer for card read and door pre-held warning.

The Symmetry S823 contactless smart card wall switch reader is very cost effective and comes with exceptional reliability and consistent read range characteristics.

The Symmetry S823 has fully potted electronics and is ideal for both outdoor and indoor use. The Symmetry S823 is warranted against defects in workmanship for life (see our warranty policy for details).

SPECIFICATIONS

Model Types

- Symmetry S823 Contactless Smart Card Wall Switch Reader

- Available in ash gray, black and charcoal gray color

Communicating Distances

- All Symmetry door controllers to Symmetry S823 (current loop) = 3000ft/1000m

Dimensions Inches (mm)

- Width = 3.1" (78mm)

- Height = 4.7" (120mm)

- Depth = 1" (26mm)

Operating Environment

- -13°F to +158°F (-25°C to +70°C)

- 0% to 95% humidity, non-condensing

Power Requirements

- Nominal 12VDC (9-14V)

- Maximum current consumption 0.1 amp

APPROVALS

Radio Regulatory Approvals to:

- FCC CFR47 Part 15.209

- EN 300 330 – 1 v1.3.1

EMC Type Testing

- EN 50130-4

- EN 50133-1:1997

PURCHASING INFORMATION

- 823-AG - ash gray

- 823-BK - black

- 823-CG – charcoal gray