



# SYMMETRY™

## S823 CONTACTLESS SMART CARD READER

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 multiNODE-2, multiNODE-2100, multiNODE-2150 and EN-IDBC 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 multiNODE controllers and their associated readers. An alarm will occur if communications are lost.

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

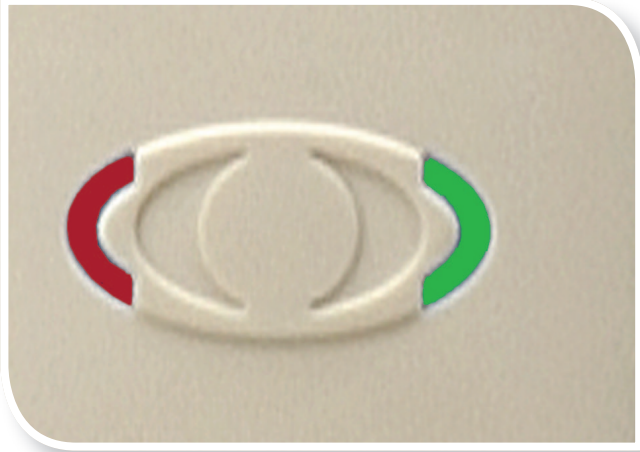
Other key reader features include LED's for visual indication of card accepted or card rejected and an integrated buzzer for card read and door pre-held warning.

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).

### KEY FEATURES

- Designed to fit most standard electrical backboxes
- Reads both NXP MIFARE and NXP MIFARE DESfire smart cards
- 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



## SPECIFICATIONS

### Model Types

- Symmetry S823 Contactless Smart Card Wall Switch Reader
- Available in ash gray, black and charcoal gray color

### Communicating Distances

- Symmetry multiNODE 1000/multiNODE-2/multiNODE 2000/multiNODE-2100 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

- EN50130-4
- EN 50133-1:1997

## PURCHASING INFORMATION

- 823-AG - Ash Gray
- 823-BK - Black
- 823-CG - Charcoal Gray



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