



Symmetry™ Blue Mobile Access Control Readers

Datasheet

KEY FEATURES

- Multi-tech readers (LF, HF, BLE or HF only, BLE, NFC) that provide the widest compatibility with multiple credential types
- Available with various comms interfaces: OSDP + Wiegand, 20mA (MCLP), F2F
- Available in various form factors: Keypad, Wall Switch, Mullion
- Designed to work across the whole Symmetry product range but also supports standard/open communications protocols for use with other access control systems
- Works with Apple Wallet
- Works with Google Wallet
- Fits standard electrical back boxes
- Reads MIFARE, DESFire, EV1, EV2, EV3, MIFARE 2GO, LEAF, and 125kHz proximity cards.
- Supports DESfire EV3 cards in backwards compatibility mode
- Managed and self-managed key options for physical card encryption
- Suitable for indoor or outdoor installation
- Integrated door pre-held warning buzzer
- Light bar feedback for card accepted or rejected
- Keypad models: Optional PIN for higher security

One of the latest innovations in access control is the use of an Android or iOS smartphone in place of a physical access card. The new Symmetry™ Blue readers address that trend with a secure and cost-effective solution.

The Symmetry Blue reader range combines NFC and Bluetooth Low Energy (BLE) with conventional card reading capabilities for integrated access control.

The Symmetry Blue readers supports NXP MIFARE, DESFire EV1, EV2, EV3 and MIFARE 2GO credential technologies. The Symmetry Blue readers can read 125kHz proximity cards, Smart (13.56 MHz), NFC, and app-based Bluetooth credentials.

In addition to being designed to work with AMAG Technology's Symmetry software and controllers, the readers also work with any controller supporting industry standard Wiegand or OSDP communications. F2F and AMAG's 20mA (MCLP) communications are also available.

Wallet credentials live in the device's Wallet app and can be provisioned quickly and remotely to users via email. No need to download an additional app just to have to uninstall it later.

Additional, app-based Bluetooth credentials can be provisioned via the Symmetry Mobile app. Enrollment of smart phones with the Symmetry system is straightforward and does not require a separate portal or third-party subscription.

Users can be provided with either a physical card, the app on their smartphone or both. Mobile phone credentials can be recorded within the Access Control Software as separate credentials and can share the same access rights as a physical card.

Symmetry Blue readers can be installed in place of an existing card reader or alongside it for situations where existing card technology is not being changed.



MODELS

Keypad Readers

939S-KP	Keypad reader, Wiegand + OSDP, LF, HF, BLE, NFC
939F-KP	Keypad reader, F2F, LF, HF, BLE, NFC
939M-KP	Keypad reader, 20mA (MCLP), LF, HF, BLE, NFC
939S-KP-W	Keypad reader, Wiegand + OSDP, LF, HF, BLE, NFC, Wallet
939F-KP-W	Keypad reader, F2F, LF, HF, BLE, NFC, Wallet
939M-KP-W	Keypad reader, 20mA (MCLP), LF, HF, BLE, NFC, Wallet

Wall Switch Readers

939S	Wall Switch reader, Wiegand + OSDP, LF, HF, BLE, NFC
939F	Wall Switch reader, F2F, LF, HF, BLE, NFC
939M	Wall Switch reader, 20mA (MCLP), LF, HF, BLE, NFC
939S-W	Wall Switch reader, Wiegand + OSDP, LF, HF, BLE, NFC, Wallet
939F-W	Wall Switch reader, F2F, LF, HF, BLE, NFC, Wallet
939M-W	Wall Switch reader, 20mA (MCLP), LF, HF, BLE, NFC, Wallet

Mullion Readers

929S	Mullion reader, Wiegand + OSDP, LF, HF, BLE, NFC
929F	Mullion reader, F2F, LF, HF, BLE, NFC
929M	Mullion reader, 20mA (MCLP), LF, HF, BLE, NFC
929S-W	Mullion reader, Wiegand + OSDP, LF, HF, BLE, NFC, Wallet
929F-W	Mullion reader, F2F, LF, HF, BLE, NFC, Wallet
929M-W	Mullion reader, 20mA (MCLP), LF, HF, BLE, NFC, Wallet

SPECIFICATIONS

Dimensions – Wall Switch and Keypad

- Width = 3.3" (83mm)
- Height = 5.1" (130mm)
- Depth = 0.8" (18mm)
- Pigtail = 18.0" (457mm)

Dimensions – Mullion

- Width = 1.7" (43mm)
- Height = 5.1" (130mm)
- Depth = 0.8" (18mm)
- Pigtail = 18.0" (457mm)



Keypad



Wall Switch



Mullion



Works with Google
Wallet™



Works with
Apple Wallet™

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by AMAG Technology is under license. Other trademarks and trade names are those of their respective owners.

Google Wallet is a trademark of Google LLC.

SPECIFICATIONS

Communication Distances

- Symmetry Door Controller to Symmetry Blue Reader = 500ft (150m)
 - Wiegand = 500ft (150m)
 - OSDP = 2,000ft (12V power at reader with twisted pair cabling)
 - MCLP = 1,000ft (12V power at reader with twisted pair cabling)
- Typical configurable read range (dependent upon phone model) 1 inch to 16 feet.

Operating Environment

-40°F to +158°F (-40°C to +70°C)

- IP55 Rated

Power Requirements

- Nominal 12VDC
- Maximum current consumption 190mA (average 150mA or less)

Software Versions

- Android 5 or later
- iOS 8 or later

APPROVALS

Radio Regulatory Approvals

- FCC Part 15
- IC RSS

EMC Type Testing

- EN301489
- EN302291 (13.56 MHz)
- EN300330 (125 KHz)

Access Control Product Testing

- UL294