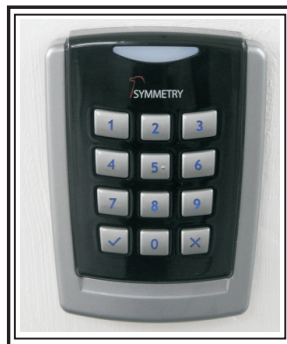


Installation & User Instructions for S870-KP V4 Keypad Readers

The S870-KP V4 is a 125kHz proximity card reader that is capable of reading HID® format card, with LED's and keypad. The reader can be set to use Wiegand or 20mA current loop communications.

Only 37 Bit HID cards have been evaluated for UL294.

For additional information regarding the installation, configuration and proper use of this product:
SMS Software User Guide, P/N 9600-0429 Issue 7.0.4 or later,
M2150 Design Guide, P/N 9600-0420 Issue 1.6.4 or later.

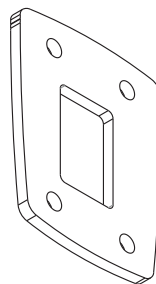


1 Fit The Weather Proofing Kit

When mounting outside, the gasket kit must be fitted:

- Remove the backplate from the reader after screwing the securing screw 'C' fully **IN**.
- Position the gasket between the back plate and the mounting surface.

Note: Reader suitable as indoor use only with UL listed products.



2 Mount the Backplate

Mount the backplate using countersunk headed screws adjacent to the opening edge of the door.

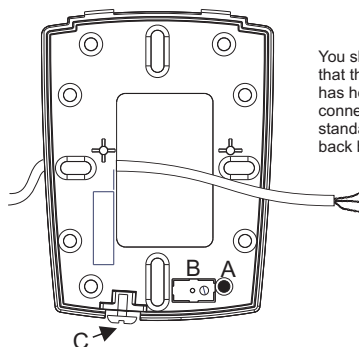
If fixing hole 'A' is used then the breakout must be removed and the screw must not protrude.

Feed the cable from the controller through the backplate.

If the wall tamper function is to be used then the small hole in breakout 'B' may be used to mark the position of the wall screw before the breakout is removed. An appropriate wall screw should then be adjusted in height to protrude through the hole to activate the tamper lever.

The front cover is secured to the backplate by UNSCREWING the securing screw 'C' via the small hole in the enclosure so that the screw head locates in the counterbored hole on the inside of the enclosure.

The screw should not be removed from the backplate.



3 Reader Connections

Note: (For UL Listed Products)

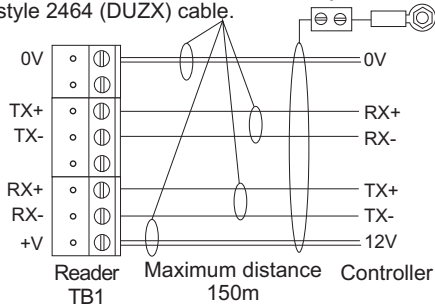
- 1). Consult local AHJ (Authority Having Jurisdiction) when installing access control readers and locking mechanisms to any portal in an egress path.
- 2). The use of Fail Closed / secure configuration shall be determined by local building codes and the local AHJ.
- 3). Wiring methods shall be in accordance with NEC (National Electrical Code) ANSI/NFPA 70.
- 4). All Interconnected devices must be UL listed.
- 5). For UL294 Installations the S870-KP Readers have only been determined compatible to be used with the M2150 Series Control Units.

4 Reader Connections contd.

20mA current loop

Twisted pairs shielded (use Belden 9504) cable or other shielded UL Listed style 2464 (DUZX) cable.

Connect shield at controller end only.



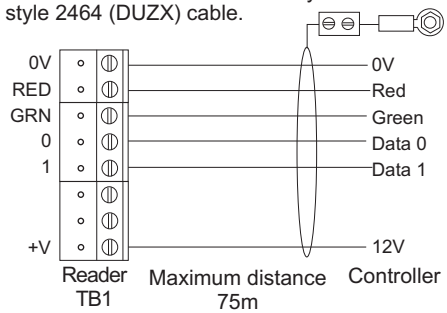
Terminal TB1 is rated class 2

Note: Use SW1 switch 2 to select the communications mode (See Step 5).

Wiegand (Not evaluated by UL)

Multi conductor shielded (Use Belden 9537) or other shielded UL Listed style 2464 (DUZX) cable.

Connect shield at controller end only.



5 Reader Links

Set SW1 switch 2 (COM) to W for Wiegand communications, or C for 20mA current loop communications. Set SW1 switch 1 (USER F/B -audio feedback) to 1 for sound on, or 0 for sound off.

6 Using / Testing the Reader

Present the card face-on to the reader until you hear a "bleep". The reader is now working correctly. Cards can be presented in rapid succession; there is no need, for example, to wait for "GREEN LED's" to disappear 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.

When faulted, the reader can not accept a card read. Check wiring for faults or replace reader.

LED Status Indicator

GREEN – The lock is released and you may open the door.

RED – You do not have access rights to gain entry, or the reader did not read your card properly (in this case, present it again).

YELLOW – Enter your PIN. If you make a mistake, the RED LED's are momentarily displayed, followed by YELLOW LED's, to prompt you to try again.

9600-0779. Installation and User Instructions for S870-KP V4 Keypad Readers, Issue 1.3. ©AMAG Technology, 2024.

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.

Specifications:

Input voltage: 12 - 13Vdc (Nominal)

Input current: 200mA Max

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

Operating humidity: 90%, non-condensing

Maximum read range: 4" (100mm)

Approvals:

EN300330, EN301489, UL294 (8th Edition)

Performance Levels:

Destructive Attack - Level 1

Line Security - Level 1

Endurance - Level IV

Standby Power - Level 1

Firmware Version: 1.XX

