





STAR1M

Mullion 2 in 1 Mifare® Card Reader, Stand-Alone or Wiegand output



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11 PRODUCT PRESENTATION

- 2-in-1 Mifare® Reader (13.56MHz):

1-Door Stand-Alone access control system or Wiegand output reader mode.

- **Stand-Alone options:** Shadow option: Up to 150 cards or Standard option: Up to 300 cards
- Read Mifare® classic, ultralight C (26, 30 or 44 bits)
- Resin-coated electronics
- Audible and visual feedback
- 3 meter cable (10 wire cable AWG28)
- 1 Relay output (1A 12V dc)
- 1 Request to exit input
- Dimensions:

5.1 x 1.6 x 1.1 in. (130 x 41 x 28 mm)

- Input voltage: 12Vdc - Consumption: 120 mA



2] REMINDERS AND RECOMMENDATIONS

To protect the device from back-emf, the terminals to avoid oxidation. do not forget to install the varistor across the lock terminals, in parallel.

Recommended cable

10 wire cable (AWG28)

Recommended power supplies is powered neither by the controller nor by the reader controller [INTBUSW]). EN 60950-1.

Environment

When in a humid area or close to the

Installation recommendations sea, we recommend applying varnish to

This product is shipped with a varistor.

The varistor must be connected directly to the locking system terminals (electric strikes, electromagnet, or lock) operated by the device. If the device functions ADC335 and BS60 (in case the reader with several locking systems, each one must be fitted with a varistor. The varistor limits overload produced by the strike The power supply must be designed to coil, known as self-effect or back-emf. If be a limited power supply as defined in you are using a "Shear Lock", electromagnet or other type of electric lock, we recommend the use of dedicated power supply for the lock.

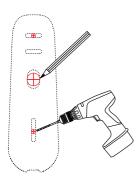


For optimum lighting, be careful to not fold the cable inside the product.

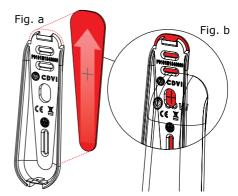
31 MOUNTING KIT

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	Leaktight seal	TF 3x30 Screws	S5 Plastic anchor	TORX® Screwdriver tip	TORX® 3x8 Screws	Varistor	METALR tag
STAR1M	1	2	2	1	1	1	1

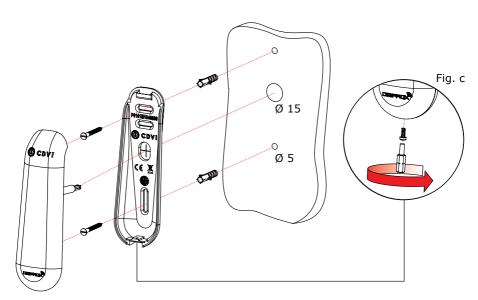
4] MOUNTING



1 Trace the markings to fix the product using the back casing. Drill the fixing support using the markings (recommended diameters: Ø5 mm and Ø15 mm). Using the wiring diagram, plan for the cable exits hidden under the surface or outside (trunking).



2 Fit the seal on the back plate starting from the bottom. (fig. a). The seal must overlap the back part of the reader by about 2 mm (fig. b).



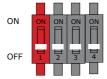
Fit the anchors in the holes, pass the cable and connect it (see wiring diagram on page 14), then fix the reader using the TORX® screw using the TORX® tool (fig. c). Remember to fit the varistor at the locking system level (see "Reminders and recommendations" on page 12).

5] READER OPERATING MODE

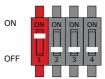
You have two operation modes with the STAR1M. In Stand-Alone mode the STAR1M acts as a 1 door access control system or in Wiegand output mode allows you to connect it to an access control system with a Wiegand input. Here's how to configure it:

On power OFF, select the operating mode (Wiegand output or Stand-Alone mode). Then power ON the STAR1M to activate the chosen mode. Repeat the process for each mode change.

Stand-Alone mode (Default) (DIP1 OFF)



Wiegand output mode (DIP1 ON)



LED flashes yellow & green

(Waiting for the Master card to be programmed)

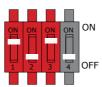
6] WIEGAND OUTPUT MODE

6.1 Wiegand Output Reading Bit Format Settings

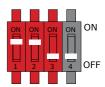
26 bits Wiegand Output



30 bits Wiegand Output



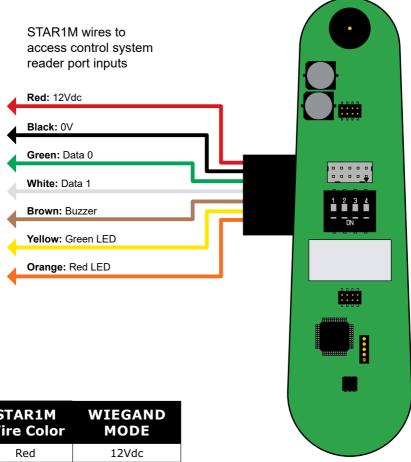
44 bits Wiegand Output





After your selection, power OFF, then power ON the STAR1M to activate the chosen mode.

6.2 Wiegand Output Wiring Diagram



STAR1M **Wire Color** 0 V Black Green Data 0 White Data 1 Blue N/A Grey N/A **Purple** N/A Buzzer input Brown Yellow Green LED input Orange Red LED input

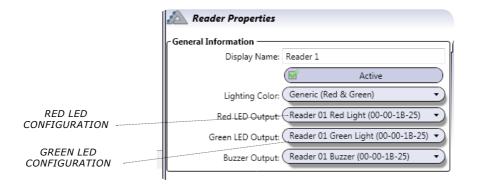
LEDs lighting in normal operation mode:

- Standby: Steady Blue - Access granted: Green (3sec.) Access denied: Flashes Red (x 5)

6.3 LEDs management on the ATRIUM system

LED STATUS

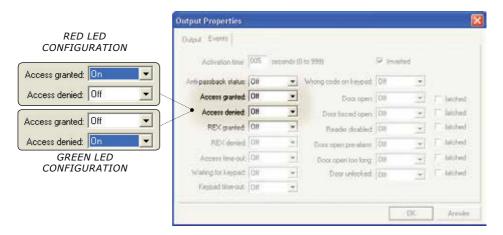
GREEN ACCESS GRANTED
RED ACCESS DENIED
BLUE STANDBY



6.4 LEDs management on the CENTAUR system

LED STATUS

GREEN ACCESS GRANTED
RED ACCESS DENIED
BLUE STANDBY



7] STAND-ALONE MODE

7.1 Stand-Alone Option Settings

You have two options in Stand-Alone mode, "Standard" or "Shadow".

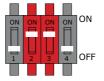
Standard option (Up to 300 cards):

Only one user badge is programmed for each user. To delete a user from the STAR1M, enter the programming mode and present the user badge.

Shadow option (Up to 150 cards):

Two different badges are programmed for the same user. The user gets one of the two badges and the second badge is stored in secure place by the supervisor as a shadow badge. These 2 badges can both grant access. In case the user badge is lost or stolen, the shadow badge can be used to delete the user from the STAR1M.

Standard Option Dipswitch Setting



Shadow Option Dipswitch Setting





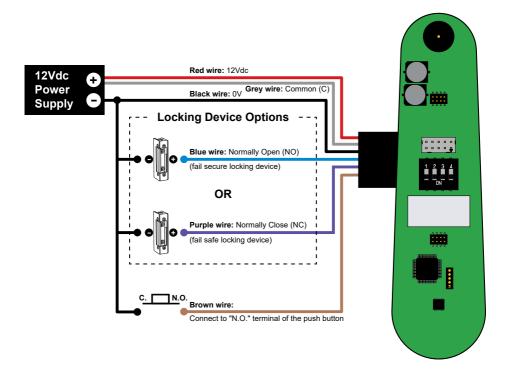
After your selection, power OFF, then power ON the STAR1M to activate the chosen mode.



Switching from "Shadow" to "Standard" mode: All cards are saved and become independent.

Switching from "Standard" to "Shadow" mode: All cards will be erased.

7.2 Stand-Alone Wiring Diagram



STAR1M Wire Color	STAND-ALONE MODE
Red	12Vdc
Black	0 V
Green	/
White	/
Blue	Normally open
Grey	Common
Purple	Normally closed
Brown	Request-to-exit input
Yellow	/
Orange	/

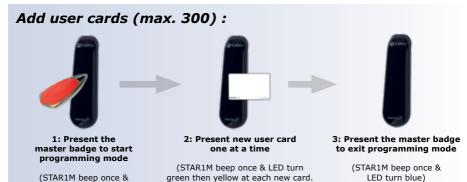
LEDs lighting in normal operation mode:

Standby: Steady BlueAccess granted: Green (3sec.)Access denied: Flashes Red (x 5)

LED turn yellow)

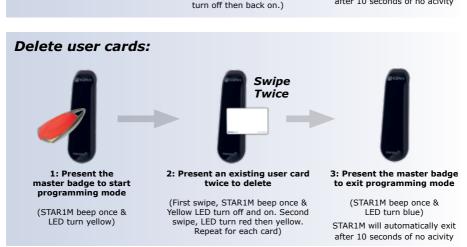
7.3 Stand-Alone Mode: Standard Option Programming





If a card is already registered, the

reader will beep once and yellow LED



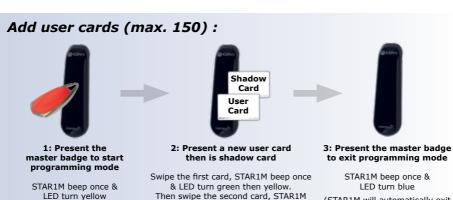
STAR1M will automatically exit

after 10 seconds of no acivity

STAR1M - Mullion Mifare® card reader

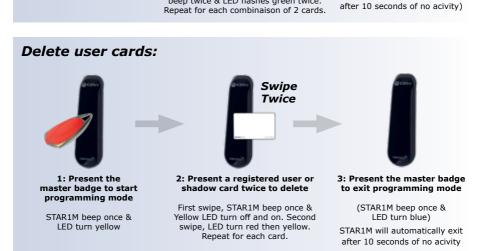
7.4 Stand-Alone Mode: Shadow Option Programming





beep twice & LED flashes green twice.

(STAR1M will automatically exit



7.5 Common Stand-Alone Programming

Program the unlock time (Stand-Alone mode):

Programmable from 01 to 99 seconds (Default: 5 seconds)



1: Present the master badge to start programming mode

STAR1M beep once & LED turn yellow





2: Press the connected REX button (Each press add 1 second).

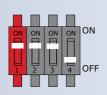
Once your sequence is complete, wait 10 seconds. The STAR1M LED start flashes white & red for each second recorded to confirme your selection.

Ex.: Press 5 times for 5 sec. wait 10 secondes then STAR1M LED flashes white and red 5 times.

(STAR1M will automatically exit programming mode after confirmation)

Reset to factory default values (Delete all cards):

In stand-alone mode the cards and badges are registered in the STAR1M. Follow the steps below to remove all cards and badges and restore the default configuration. In Wiegand output mode cards and badges are NOT registered in the STAR1M but rather in the access control system to which it is connected.



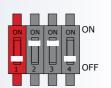
1: Power OFF the STAR1M and set DIP1 to ON



2: Power ON the STAR1M

STAR1M beep once & LED flashes rapidly white/Red followed by a green, red, blue blinks then turn off.

Now the memory is deleted.



3: Power OFF the STAR1M, set DIP1 to OFF then power ON STAR1M

STAR1M LED blink green, red then steady blue and beep once.

> Ready to start again from the beginning.

CDVI Group

FRANCE (Headquarter) Phone: +33 (0)1 48 91 01 02

CDVI FRANCE + EXPORT 31, av. du Général Leclerc 93500 PANTIN - France

Phone: +33 (0)1 48 91 01 02 www.cdvi.com

CDVI AMERICAS

[CANADA - USA] Phone: +1 (450) 682 7945 www.cdvi.ca

CDVI BENELUX

[BELGIUM - NETHERLAND - LUXEMBOURG] Phone: +32 (0) 56 73 93 00 www.cdvibenelux.com

CDVI TAIWAN

Phone: +886 (0)42471 2188 www.cdvichina.cn

CDVI SUISSE

Phone: +41 (0)21 882 18 41 www.cdvi.ch

CDVI CHINA

Phone: +86 (0)10 84606132/82 www.cdvichina.cn

CDVI IBÉRICA

[SPAIN - PORTUGAL] Phone: +34 (0)935 390 966 www.cdviberica.com

CDVI ITALIA

Phone: +39 0321 90 573 Fax: +39 0321 90 8018 www.cdvi.it

CDVI MAROC

Phone: +212 (0)5 22 48 09 40 www.cdvi.ma

CDVI SWEDEN

[SWEDEN - DENMARK - NORWAY - FINLAND] Phone: +46 (0)31 760 19 30 www.cdvi.se

CDVI UK

[UNITED KINGDOM - IRELAND] Phone: +44 (0)1628 531300 www.cdvi.co.uk

CDVI POLSKA

Phone +48 12 659 23 44

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