

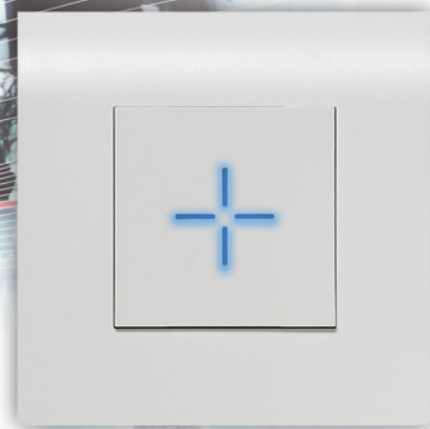
WAL high security

MIFARE Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus®, DESFire® EV1 & EV2, NFC, CPS3

arnould

legrand

Compatible
SECARD
Security Management System



STid decorative plate

Access control customizable wall switch reader

The WAL MIFARE Plus®/DESFire® EV1 & EV2/NFC is a high security proximity reader designed to be mounted in switch boxes. It is well suited for all your high security access control applications, offering both discretion and user comfort.

Multi-technology, upgradable

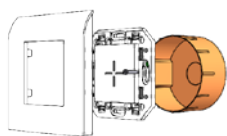
The WAL readers are compliant with ISO14443 A & B and ISO18092 standards. They support simultaneously the NXP MIFARE® chips: MIFARE Ultralight® & Ultralight® C, Classic & Classic EV1, MIFARE Plus®, DESFire® EV1 & EV2 - As well as special products like CPS3 cards (national healthcare professional ID card - IAS/ECC protocol), NFC transactions, iCLASS® and PicoPass® cards.

With this multiple standard reading capacity, the reader is ready to answer easily cases of building extension, security evolution or migration.

High Security identification

The WAL readers support the latest MIFARE® contactless technologies and their new data protection features. They use all the new and possible security algorithms of these chips: TDES, AES, RSA, SHA... The innovative tamper protection system protects sensitive data and gives the possibility to delete the authentication keys (patent pending).

Easy integration and installation



With its slim line design, the WAL features problem-free handling and easy installation in all the European switch boxes (60 mm). The removable connector and the round mounting


holes simplify and reduce considerably the WAL reader installation time.

Customize your reader to your corporate image!

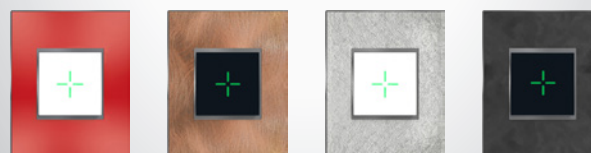


In order to ensure the best integration of your reader, the WAL range is fully compliant with several electrical switches. Two versions are available:

- WAL2: **standard model provided with its STid decorative plate** and compliant with "Arnould Espace", "Espace Evolution" and "Legrand® Mosaic" plates.
- WAL3: thin model compliant with Arnould "Art* Epure & Fusion" collection.

 STid offers you the possibility to print your company's logo.

Arnould "Espace Evolution Matières" collection



Red Brushed copper Silver fiber Leather

Contact-us for more information on the customization possibilities.
* Tailor-made.

WAL high security

MIFARE® Classic EV1, MIFARE Plus®, DESFire® EV1 & EV2, NFC


Specifications

Operating frequency/standards	13.56 MHz. ISO14443 types A & B, ISO18092 (NFC)
Chip compatibility	MIFARE Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus®, MIFARE® DESFire®, MIFARE DESFire® EV1 & EV2, NFC, SMART MX family, CPS3 cards, Moneo, iCLASS® and PicoPass®
Functions	Read only: CSN, private ID (sector/file) or secure protocol (Secure Plus) Read-Write (SSCP)
Reading distances*	Up to 6 cm with a MIFARE® Classic card Up to 5 cm with a MIFARE Plus® / DESFire® EV1 card
Communication interfaces	- Wiegand - Data/Clock (Ciphered Wiegand/S31) - RS232 (RS232 functions S32 Ciphered) - RS485 (RS485 functions chiffrés S33 Ciphered)
Connections	Removable connector 8 points (3,81 mm)
Light indicator	LED 7 colors (green, red, blue, yellow, purple, turquoise, white) Card configuration and external command (0V) in R31/S31 By card and software in R32/S32/R33/S33 - By software in W32/W33
Audio Indicator	Internal buzzer - Card configuration and external command (0V) in R31/S31 By card and software in R32/S32/R33/S33 - By software in W32/W33
Power requirement	Typical 100 mA/12V
Power supply	5 VDC to 24 VDC
Material	ABS - PC
Dimensions (mm)	Core: 45 x 45 + decorative plate "Espace": 70,5 x 70,5 / "Espace Evolution": 94 x 81 / "ART": 80 x 80 / "Mosaic": 82 x 82 / STid: 85 x 85
Operating temperatures	- 20°C to + 70°C - Indoor
Tamper switch	Integrated accelerometer with the possibility to erase data/keys
Mounting	Flush mount wall - Compatible with European electric pots

Part number	CSN read-only Wiegand, Clock&Data:	WALX-R31-E/103-xx/y
	Pre-configured read-only Wiegand, Clock&Data :	WALX-R31-E/PC1-xx/y
	Secure read-only Wiegand, Clock&Data:	WALX-R31-E/PH5-xx/y
	Secure read-only / Secure Plus Wiegand, Clock&Data:	WALX-S31-E/PH5-xx/y
	Secure read-only RS232:	WALX-R32-E/PH5-5AB/y
	Secure read-only / Secure Plus RS232:	WALX-S32-E/PH5-5AB/y
	Secure read-only RS485:	WALX-R33-E/PH5-7AB/y
	Secure read-only RS485 (EasySecure interface):	WALX-R33-E/PH5-7AA/y
	Secure read-only / Secure Plus RS485:	WALX-S33-E/PH5-7AB/y
	Read/Write RS232:	WALX-W32-E/PH5-5AA/y
Read/Write RS485:	WALX-W33-E/PH5-7AA/y	

X: 2 = standard model - STid, "Arnould Espace", "Espace Evolution" and "Legrand® Mosaic" / 3 = thin model - "Arnould Art Épure & Fusion"

y: Color of reader core casing (1: black - 2: white)



*Caution: Information about the distance of communication: measured from the centre of the antenna, depending on the type of identifier, size of the identifier, operating environment of the reader, power supply voltage and reading functions (secure reading).

Compatible:



Standard ISO cards
MIFARE® Hybrid cards



Wristbands



Key holders



NFC smartphone



SECARD

Fully compatible with the SECARD BIO configuration kit and the SSCP protocol.

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