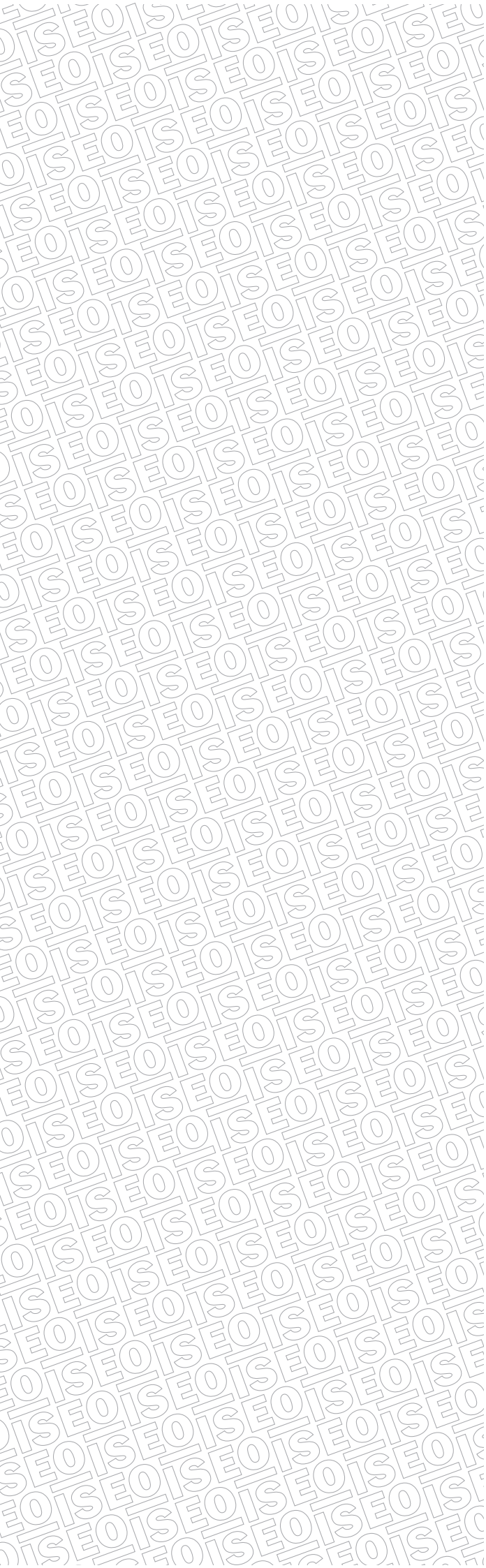




STYLOS

Credential reader

User Manual

EN 02



ISEO[®]

iseo.com

About this manual

Dear Customer,

Thanks for choosing this innovative ISEO product, designed and developed following the highest standard of production, for an effective user-friendly and, at the same time, powerful and flexible access control.

This manual explains the functions, configurations and characteristics of *Stylos*, the ISEO credential reader.

For commercial documents (catalogues and leaflets), technical documents (installation and maintenance manuals) and certifications, refers to the ISEO website at the following link:

<https://www.iseo.com>

Information icons

For an easy reading of the manual, please take note of the following icons:



WARNING: situations that could cause injury to yourself or others.



CAUTION: situations that could cause damage to your *Device* or other equipment.



NOTE: notes, suggestions and additional information.

About this manual

Information on copyright

- No part of this guide may be reproduced, distributed, translated, or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or storing in any information storage and retrieval system, without the prior written permission of ISEO.
- ISEO reserves the right to change the specifications of the hardware and software described in this manual at any time and without prior notice.
- ISEO will not be held liable for any damages resulting from the use of this product.

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Keywords

- **Access control device:** electronic and/or mechanical device to allow selective access through the users' door.
- **Contactless card:** electronic card that can be read by the *Access control device*, by simply bringing it closer to the same, without physical contact.
- **Credential:** device that allows to identify the user and authorize or not authorize access through a door. For example: smartphone, tablets, Mifare cards or Mifare tags.
- **Door:** passage which access is electronically controlled by the *Access control device*.
- **Master Card:** *Contactless card* used to program the system.
- **Master Card set:** set of three *Master Cards* numbered from 1 to 3, belonging to the same *System code*. The *Master Card* of higher number disable the *Master Card* of lower number.
- **Opening time:** time during which a door remains open, following a standard opening through credential.
- **Programming mode:** software condition, feasible by *Master Card*, that allows software modification to the *Device*.
- **Smart series:** *Access control devices* featuring a built-in Bluetooth radio.
- **System code:** unique number associated to a *Master Card set*.
- **User card:** *Contactless card* used to open one or more doors.
- **Users list:** list of *User cards* enabled to open an *Access control device*.

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Safety and Environment

To prevent damage to your product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment.

Keep this manual in a convenient place so that you can refer to it when necessary.



Warnings

- Read this manual prior to use the device in order to ensure a safe and proper use.
- Preserve this manual as future reference.
- The installation of the device requires the intervention of qualified staff, adequately trained by ISEO.
- The instructions should be carefully followed during installation. These instructions and any maintenance instructions should be passed on by the installer to the user.
- No modifications of any kind are permitted, except for those described in these instructions.
- The product must be destined only for the use for which it is expressly designed and therefore as a credential reader for civil and industrial locations. Any other use is considered improper and dangerous.
- The electrical connection must be made according to the constructor's instructions and respecting the regulations in force.
- In the event of a failure and/or poor operation, remove the power supply using the main switch and do not tamper with it. For all repairs, exclusively contact a technical assistance center authorized by the constructor.
- Disconnect the power supply before carrying out any technical service that involves opening or accessing the internal parts of the product.
- RFID: frequency 13,553 - 13,567 MHz, maximum magnetic field: 0,89 $\mu\text{A}/\text{m}$ (measured at 10m at the maximum power capacity)
- Only for device with on-board radio: frequency 2,40 - 2,4835 GHz, maximum power: 5,25 mW
- Operating temperature: $-20^{\circ}\text{C} + 60^{\circ}\text{C}$



Handling lithium batteries

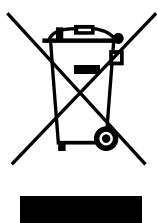
Batteries may leak or explode if improperly handled. Observe the following precautions when handling batteries for use in this product:

- Do not connect the battery during the shipping and the storage. Connet the battery just during installation and use.
- Risk of explosion if the battery is replaced by an incorrect type.
- Use only battery of the same type as indicated in the product installation guide.
- Do not open, drill through or squash lithium batteries.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Do not short circuit lithium batteries.
- Do not recharge lithium batteries.
- Do not connect lithium batteries in parallel.
- Do not transport or store the battery with metal objects such as necklaces or hairpins.

Disposal and recycling

This product and battery are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.

For more information, contact the retailer or the local authorities in charge of waste management.



Dispose of the product separately from household waste, in accordance with local laws and regulations.
Remove the batteries before disposing of the product.



This symbol on the battery indicates that the battery is to be collected separately.
Dispose of batteries according to your local environmental laws and guidelines.



This symbol indicates to not dispose of the packaging with household waste, but send it for recycling.

Certifications

Certifications and compliance

In conformity with the essential requirements and other relevant requirements of the:

Directive 2014/53/EU (RED)



Download the conformity certificate at iseo.com website

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields), recommended by international guidelines.

Frequency type	Frequency band	MAX emission value
RFID tag reader	13,553 - 13,567 MHz	Maximum magnetic field: 0,89 μ A/m (at 10m)
BTLE*	2,40 - 2,4835 GHz	Maximum power: 5,25 mW

* BTLE only on models with radio communication option.

Overview

What is Stylos

Stylos is a multistandard ISO 14443 A/B credential reader that in combination with the *Electric Lock Actuator*, is able to control any electrical. *Stylos Smart* version embeds the *Bluetooth Smart Technology*, in order to work with *Argo*, the ISEO application running on iOS and Android smartphone.

Stylos it is suitable for private houses, apartment blocks, light commercial (offices, single entrance of commercial, server rooms, etc.).



For the installation of *Argo app*, device initialization, setup of the opening, and other operations not described herein, refer to the *Argo User Manual*, available at iseo.com.



Stylos take also advantages of the next importants and uniques features:

- Real Time Clock/Calendar.
- Optical and acoustic signalling.
- Wall mounting with fixing spacer available.
- Outdoors IP66 version available.
- Lockbus communication interface.
- On-site software upgrading.

Overview

Technical data

Feature	Characteristics
RFID Reader	• Multistandard 13,56 Mhz: • ISO14443A/B (Mifare Classic, Mifare Plus and Mifare Desfire).
Communication interface Bluetooth 4.0 Module	• RFID Near Field Magnetic communication. • Bluetooth Smart (4.0) • Lockbus interface
Power supply	• 8Vdc to 30Vdc.
Power consumption	• 3W
Battery	• Internal cell Lithium Battery CR2032 for date and time synchronizations when Stylos is not powered. • 10 years of average duration*. (*) Depending on usage and environment.
Signalling LED version	• LEDs 3 color series: green, red and blue. • Acoustic buzzer.
Signalling Display version	• Graphic display O-led 128x64 dots • Acoustic buzzer.
Keyboard (only Display version)	• 12 buttons with backlight controlled from firmware.
Software	• V364 Software. • VAR/OEM development platform available. • Argo app available for Android and iOS phones (Stylos Smart). • Software upgrade on site.
Assembly	• Wall assembly. • Spacer available
Lockbus interface	• 3 wires multipoint serial bus for power and data. • Connection up to 100 mt. • Self-adjusting power supply from 8Vdc to 30Vdc. • Secure device authentication (among readers and actuators) and encrypted data transmission for high security against manipulation.

Overview

Feature	Characteristics
Assembly	• Wall assembly. • Spacer available
Dimensions (D x W x H)	• 48 x 18 x 130 mm.
Environmental characteristics	• Operating temperature: -20°C ÷ +60°C. • Storage temperature: -25°C ÷ +75°C. • Protection system (IP grading): IP54 or IP66 (All-weather version for outdoors installation).

Electric Lock Actuator

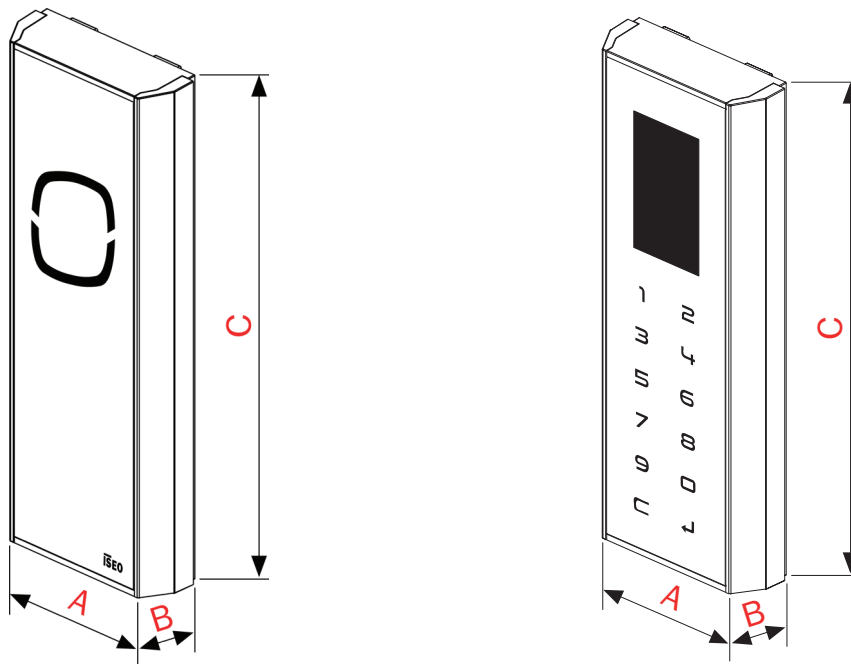
Feature	Characteristics
Power supply	• 8Vdc to 30Vdc.
Power consumption	• 3W
Inputs (by electronic actuator)	• 3 Inputs (1 digital, 1 analogic and 1 digital or analogic).
Outputs (by electronic actuator)	• 1 relay (24V/1A) + 1 booster (for direct electric lock).
Box	• For DIN35 rail.
Dimensions (D x W x H)	• 36 x 58 x 90 mm.
Lockbus interface	• 3 wires multipoint serial bus for power and data. • Connection up to 100 mt. • Self-adjusting power supply from 8Vdc to 30Vdc. • Secure device authentication (among readers and actuators) and encrypted data transmission for high security against manipulation.
Environmental characteristics	• Operating temperature: 0°C ÷ +60°C. • Storage temperature: -25°C ÷ +75°C. • Protection system (IP grading): IP54



For detailed commercial information, please check related catalogue and leaflet at: iseo.com.

Overview

Dimensions



Dimensions (mm)

A = 47,50

B = 17,50

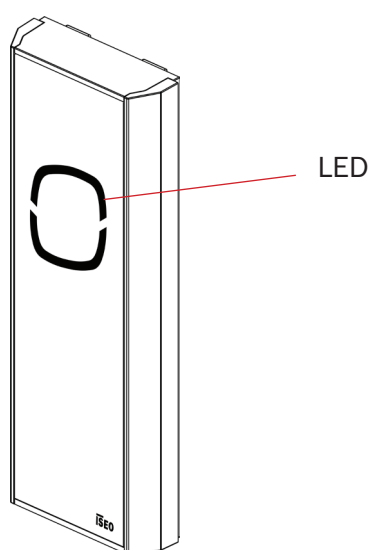
C = 130

Overview

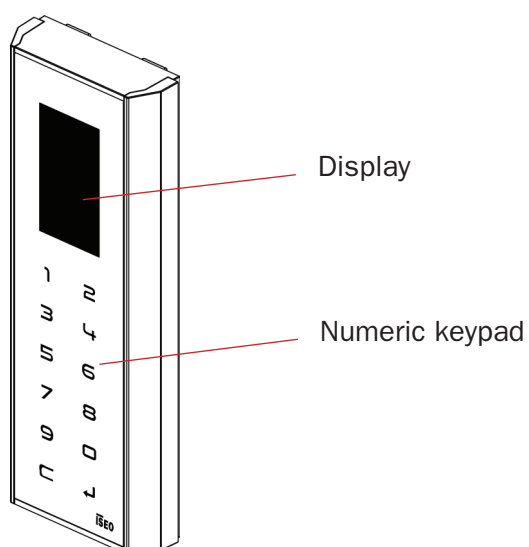
Options and versions

Stylos can be supplied in different version: *Stylos LED*, *Stylos Display* with keyboard and *Stylos All Weather* (only LED version). For more detailed information go to the on-line catalogue at iseo.com website.

1) *Stylos LED*



2) *Stylos Display* with keyboard

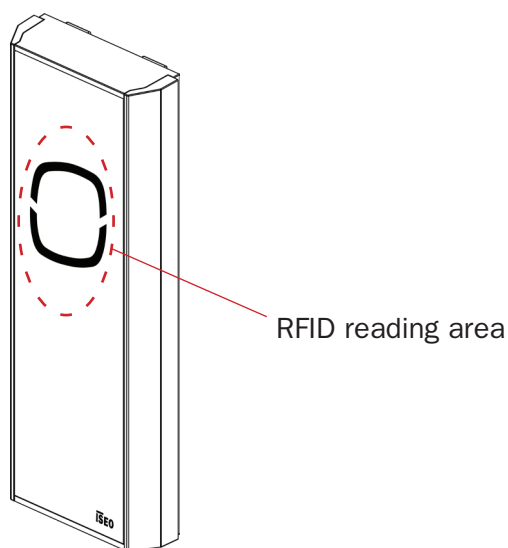


Overview

3) Stylos All Weather (IP66 Outdoor version - only LED version)

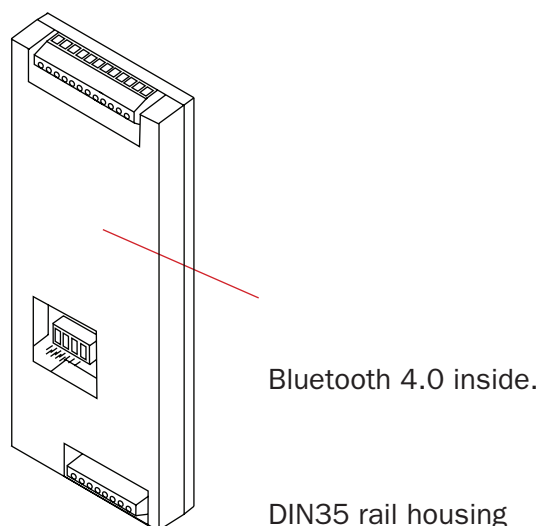
Stylos All Weather is composed by 3 units.

1. IP66 Credential reader module (outdoor).



- The module encloses the RFID contactless multi-standard reader, completely sealed for outdoors installation, to resist against rain, snow and humidity exposure (IP66).

2. Control Unit (indoor).



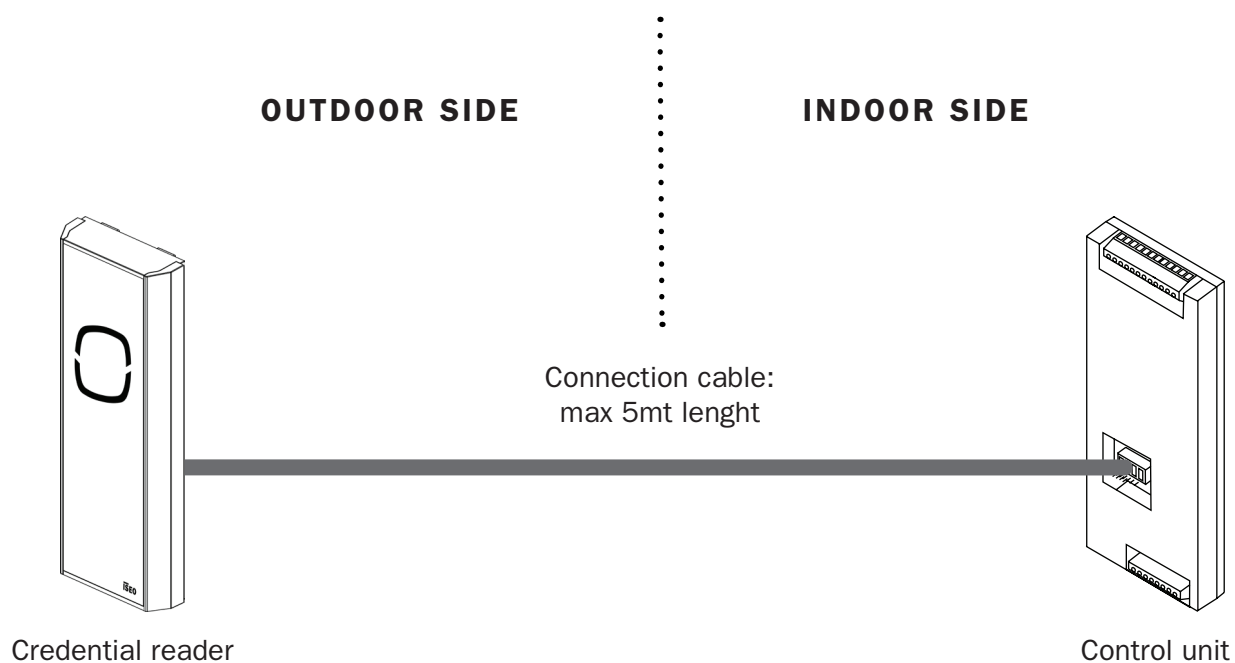
- This module encloses the Stylos electronic board with Bluetooth 4.0 and Lockbus communication interface. It needs to be installed indoors, at a maximum distance of 5mt from the Credential reader.

3. Connection cable (5mt length).

To connect the Credential reader to the Control Unit. 5mt is the maximum allowed distance between the 2 modules.

Overview

Stylos All Weather installation scheme.

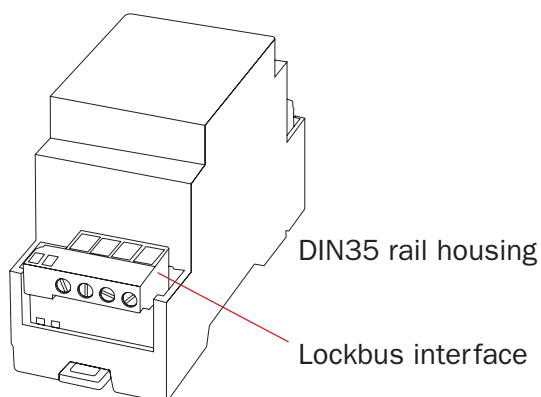


For more information about *Stylos* and *Stylos All Weather* installation, refer to the *Installation Guides* available at: iseo.com.

Overview

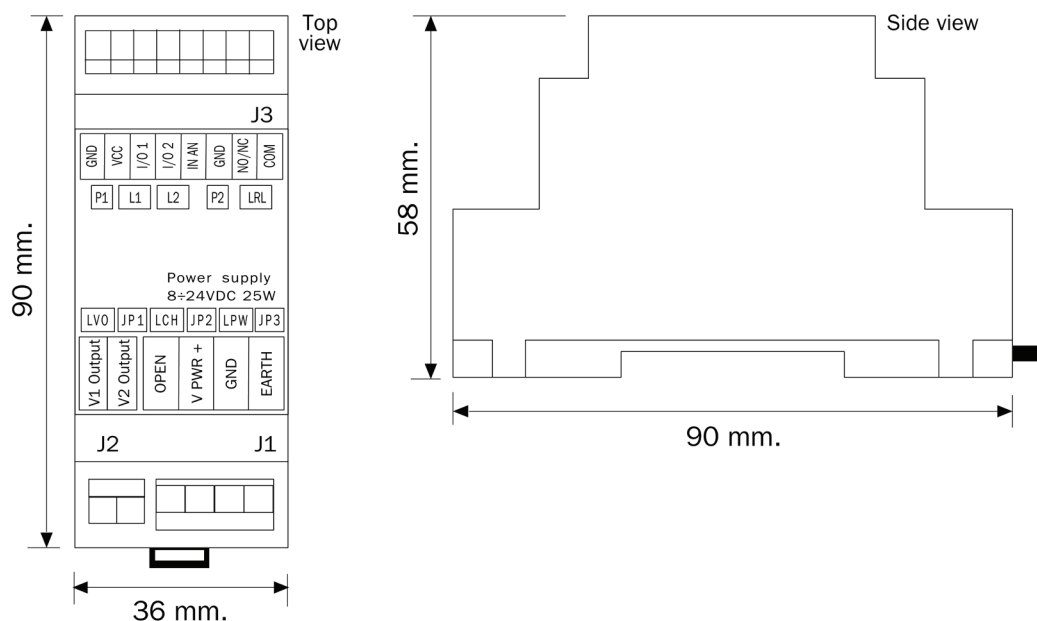
Accessories

A) Electric Lock Actuator



- The Electric Lock Actuator allows a direct control of electromechanical locks and electric strikers or, by using the built-in relay, of any other access control device: such as car park bars, sliding doors, electric locks and many more.
- Controlled by Stylos allows to open any electrical device.

Electric Lock Actuator dimensions:



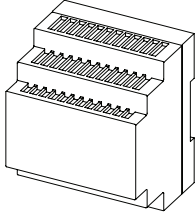
For more information about the *Electric Lock Actuator* installation, read to the *Installation Guides* or the catalogue available at: iseo.com.

Overview

B) Power supply

The *Stylos Line* products are provided with a self-adjusting power supply from 8Vdc to 30 Vdc, ensuring top flexibility and allowing in most cases the use of an existing supply even when the theoretical parameters are deteriorated.

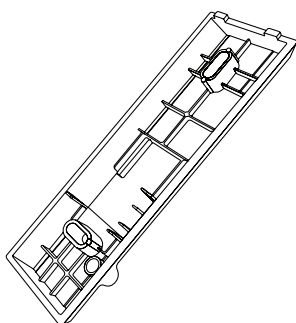
ISEO can also provide different power supply units depending on needs. In the following table are shown the common ones.

Graphic	Description	Features
	Power supply unit 12Vdc - 50W	• Input 120-230Vac. • Output 12Vdc 3,5A. • DIN35 rail mounting.
	Power supply unit 24Vdc - 30W	• Input 120-230Vac. • Output 24Vdc 1,2A. • DIN35 rail mounting.
	Power supply unit 24Vdc - 70W	• Input 120-230Vac. • Output 24Vdc 3A. • DIN35 rail mounting.



For all the power supply codes refer to the catalogues available at: iseo.com.

B) Plastic back housing for wall installation



- Specifically designed for mounting with external electrical conduit or to avoid direct contact of the *Stylos* back surface to the wall.
- Dimensions D x W x H (mm) = 40 x 10 x 125

Getting Started

Package contents



The product box contains the following items:

- *Stylos*.
- 2 screws for metal.
- 2 screws for plastic.
- 2 washers.
- 2 fisher adaptors.
- Installation guide.



The items supplied with the *Device* and any available accessories may vary depending on the region or service provider. Appearances and specifications are subjected to change without prior notice.

Getting Started

Installing Stylos



Installation must be performed only by skilled technical staff, following the *Stylos Installation Guide*, available at: iseo.com.

For a correct procedure see also *Warnings* at the *Safety and Environment* chapter.

Programming and using Stylos

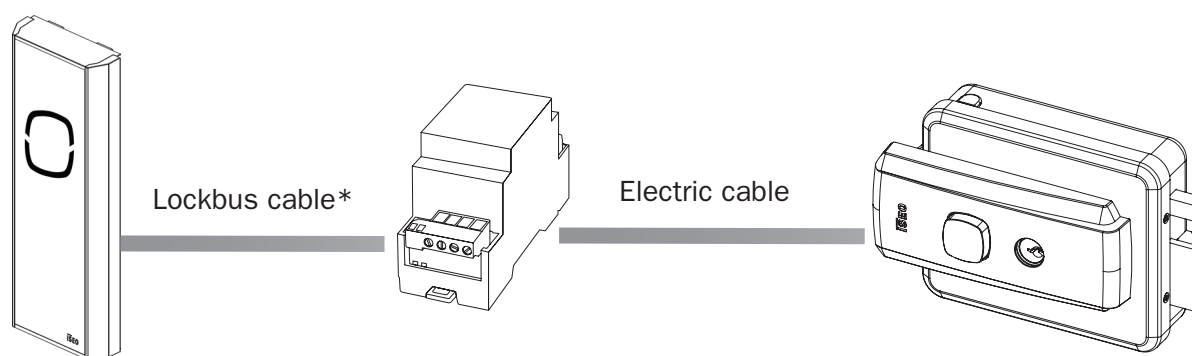


For these operations, please refer to *Argo User Manual* for *Stylos Smart*, or *V364 System Administrator Manual* for *Stylos*. Both available at: iseo.com.

Installation examples

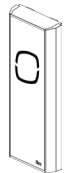
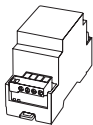
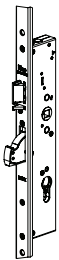
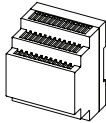
Introduction

Stylos in combination with the *Electric Lock Actuator* is able to control any electrical devices: like bars, electric gates, sliding doors, turnstiles, or automatic swing door operator.

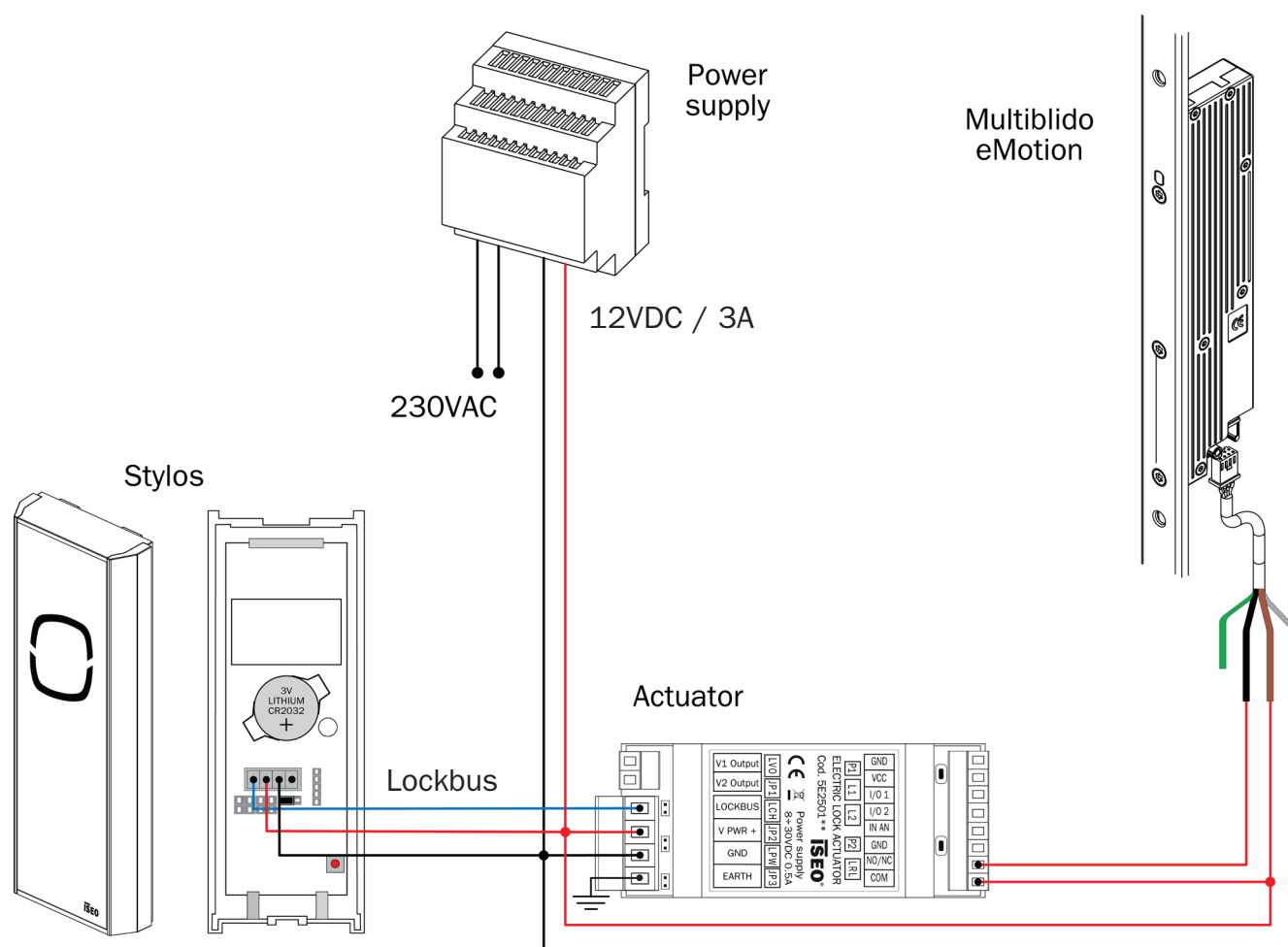


* It is hereinafter referred as “Lockbus cable” the communication cable between *Stylos* and *Actuator*, since communication take place via the ISEO proprietary Lockbus protocol.

Example of required components with Multiblindo eMotion

Graphic	Description	Features
	Stylos	- Power supply: 8 ÷ 30 Vdc (3W) - Min./max. cross-section of the cables is: 0.20 ÷ 1.5 mm² (24 ÷ 15AWG).
	Electric Lock Actuator	- Power supply: 8 ÷ 30 Vdc (3W) - Min./max. cross-section of the cables is: 24 ÷ 15AWG for terminals J2/J3 and 24 ÷ 13AWG for terminal J1.
	Multiblindo eMotion	- Power supply: 12 Vdc / 2A (30W) - Wires minimum cross-section: 0,35mm to 2,5mm, depending on cable distance.
	Power supply unit	- To power-up Stylos, Actuator and MB eMotion. - Input 120-230 Vac. - Output 12 Vdc / 3 (40W).
	Cable	- To connect the devices. - See <i>Cable sizing</i> paragraph.

Stylos opening Multiblindo eMotion



To know more about wires minimum cross-section and power supply sizing go to *Cable sizing* paragraph.

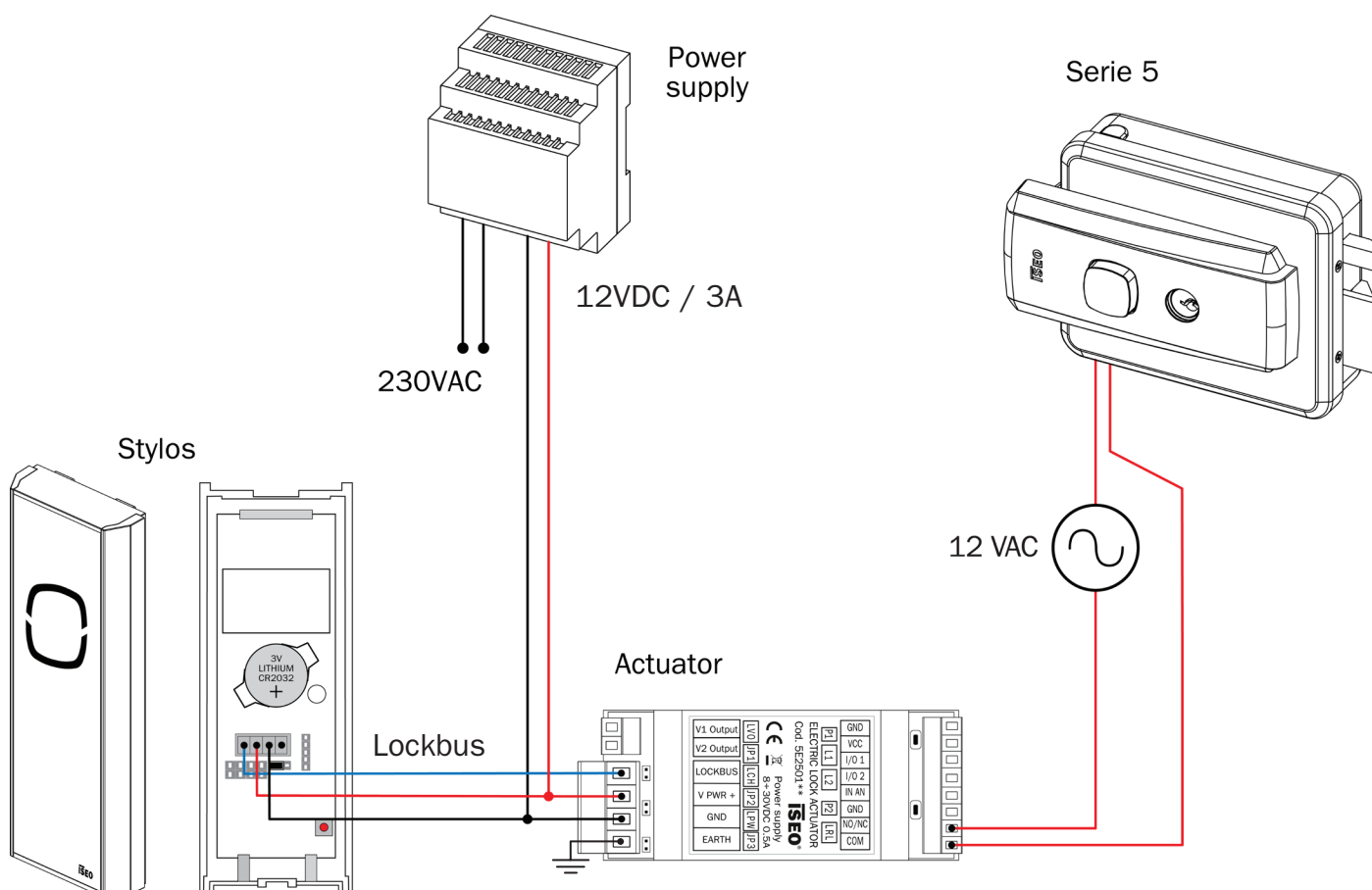
For more technical information about wiring and connections, refer to the device's installation guides, included in the device's box or available at: iseo.com.



In this example, to simplify the scheme, it has been used a single power supply to power all devices. On real plants scenario, for service and maintenance purpose, it is usually recommended to separate *Stylos* and *Actuator* power supply from the electrical device (in this case *Multiblando eMotion*), by using 2 different power supply properly dimensioned.

Installation examples

Stylos opening Serie 5 electric lock

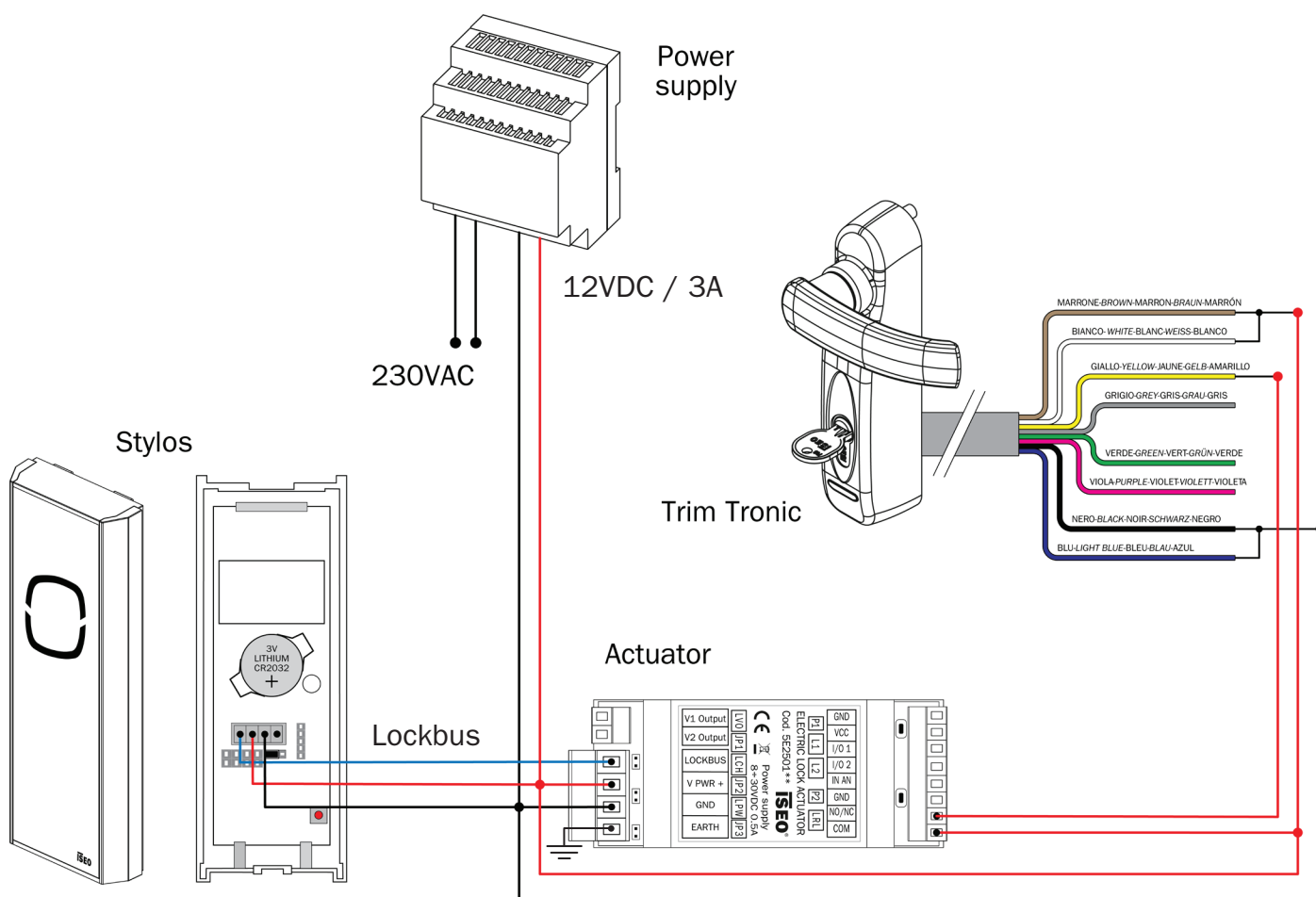


To know more about wires minimum cross-section and power supply sizing go to *Cable sizing* paragraph.

For more technical information about wiring and connections, refer to the device's installation guides, included in the device's box or available at: iseo.com.

Installation examples

Stylos opening Trim Tronic

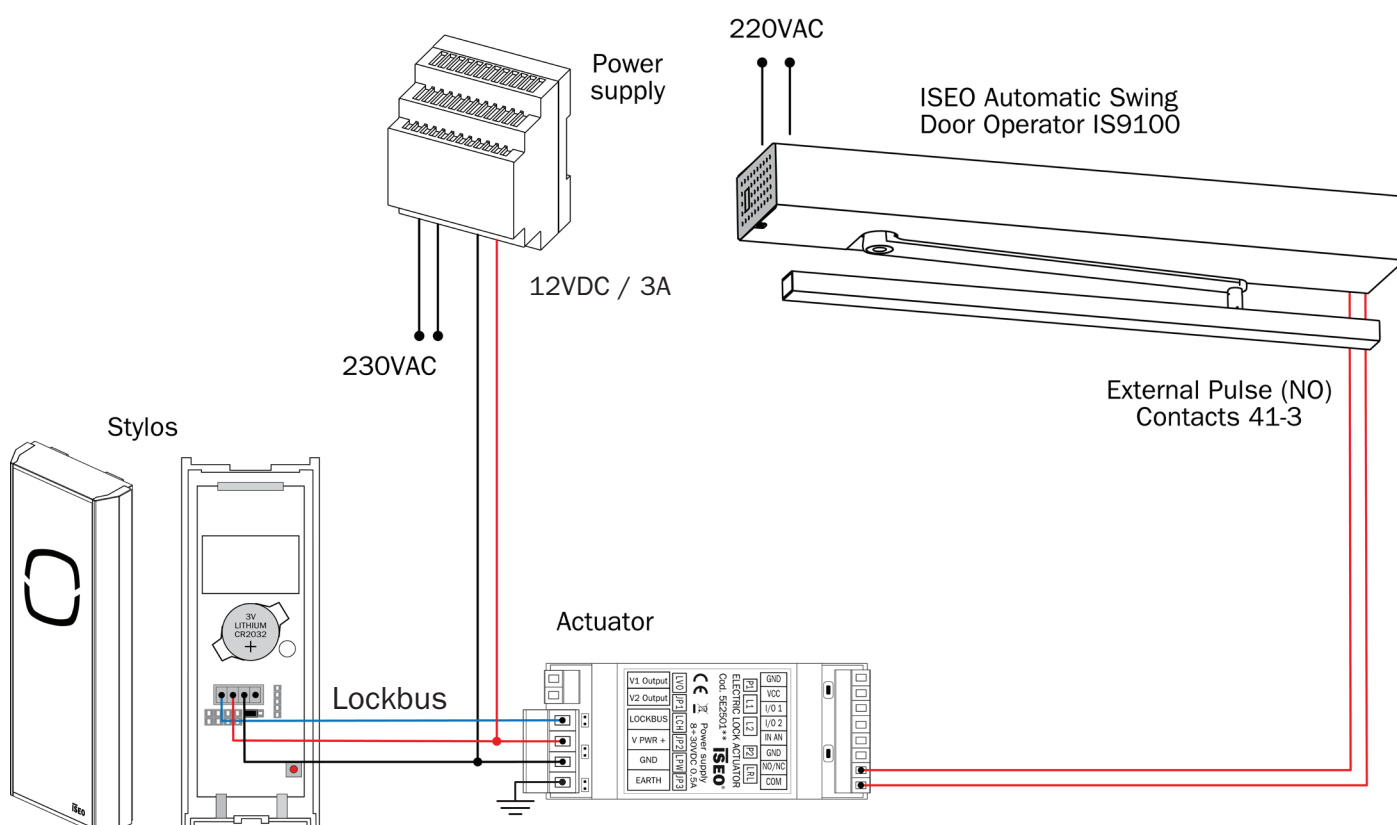


To know more about wires minimum cross-section and power supply sizing go to *Cable sizing* paragraph.

For more technical information about wiring and connections, refer to the device's installation guides, included in the device's box or available at: iseo.com.

Installation examples

Stylos opening ISEO Automatic Swing Door Operator IS9100

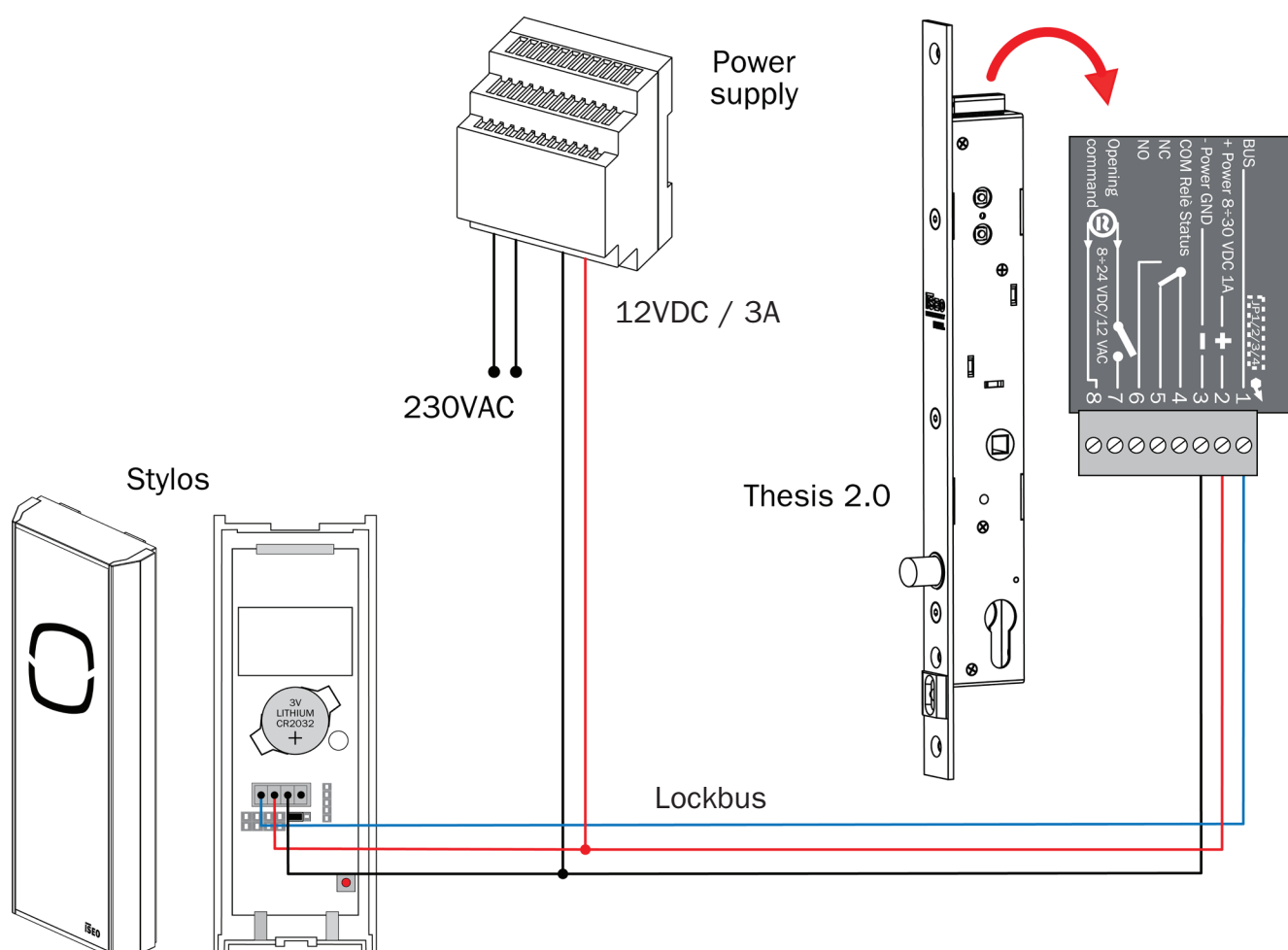


To know more about wires minimum cross-section and power supply sizing go to *Cable sizing* paragraph.

For more technical information about wiring and connections, refer to the device's installation guides, included in the device's box or available at: iseo.com.

Installation examples

Stylos opening Thesis 2.0



Thesis 2.0 embeds the *Lockbus* communication interface, therefore it can be connected directly to *Stylos* without the need of the *Electric Lock Actuator*.

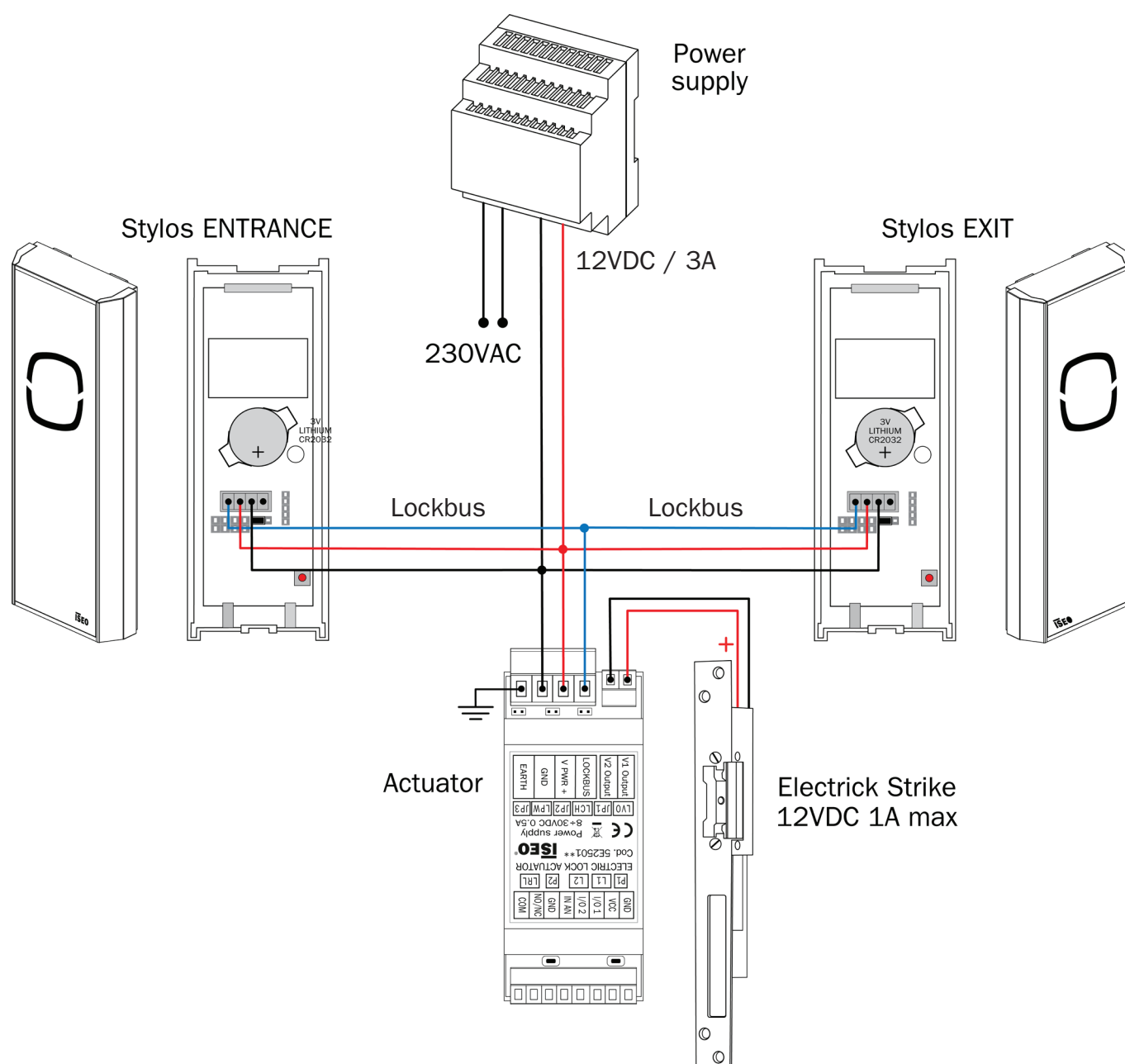


To know more about wires minimum cross-section and power supply sizing go to *Cable sizing* paragraph.

For more technical information about wiring and connections, refer to the device's installation guides, included in the device's box or available at: iseo.com.

Installation examples

2 Stylos opening an electric strike



To know more about wires minimum cross-section and power supply sizing go to *Cable sizing* paragraph.

For more technical information about wiring and connections, refer to the device's installation guides, included in the device's box or available at: iseo.com.

Cable sizing

For cable sizing purpose we need to take in consideration the *Lockbus* communication protocol between *Stylos* and actuators (*Electric Lock Actuator* and *Thesis 2.0*).

Lockbus is a powerful multipoint bus, sharing data transmission and power supply on the same 3 wires connection, for utmost flexibility, easy installation and consequently, cost optimization.

Lockbus takes advantage of:

- Data transmission and power supply on the same 3 wires connection up to 100 m.
- Self-adjusting power supply from 8Vdc to 30Vdc.
- Secure device authentication (among readers and actuators) and encrypted data transmission for high security against manipulation.

To correctly design a plant is fundamental a proper *Lockbus* cable sizing. This operation takes in consideration the following information:

- sum of all devices' power consumption present on the same *Lockbus* line. This figure is really important to properly dimension the *Lockbus* power supply unit.
- Distance between all devices connected on the same *Lockbus* line. Total *Lockbus* channel cable length (sum of all branches), must not exceed 100mt.
- *Lockbus* power supply unit (voltage and power).
- Cable voltage drop, due to distance, wires' size and type of power supply.



The proper sizing of the electrical cables is fundamental to ensure system's safety and functionality. Please refer to an electrician or follow the general cable sizing calculation rules.

Lockbus technical data

Feature	Characteristics
Lockbus interface	• 3 wires multipoint serial bus for power and data. • Self-adjusting power supply from 8Vdc to 30Vdc. • Secure device authentication (among readers and actuators) and encrypted data transmission for high security against manipulation.
Maximum lockbus length sum of all branches	• 100mt (total distance between all devices connected to the same Lockbus line)
Recommended cable capacitance	• 60 pF/mt
Min./max. wires cross-section	• 24÷13 AWG (0,20÷2,5 mm²) • Depending on cable length, power supply and total devices' power consumption (watt).

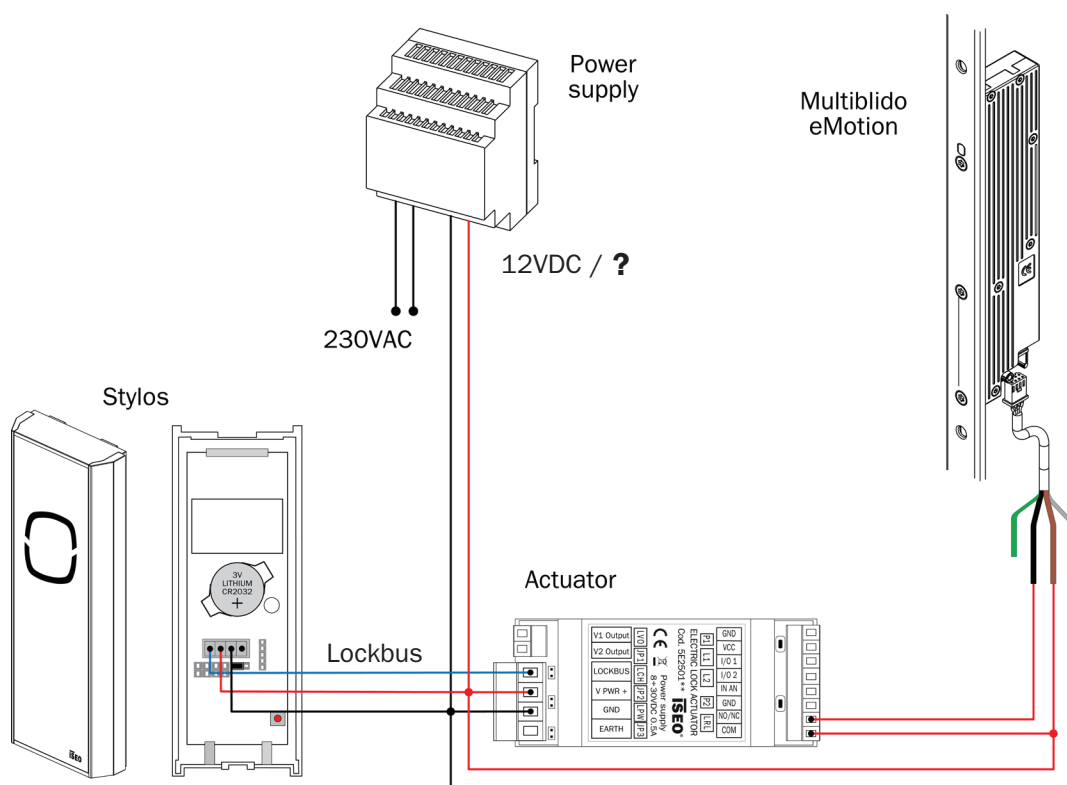
Cable sizing

The following table shows the recommended *Lockbus* wires cross-section related to cable length:

Distance (mt)	Cross-section (AWG)	Cross-section (mm2)
From 0 to 5	• 22	• 0,35
From 5 to 10	• 20	• 0,5
From 10 to 40	• 18	• 0,75
From 40 to 50	• 17	• 1
From 50 to 75	• 15	• 1,5
From 75 to 100	• 13	• 2,5

Lockbus and power supply unit sizing calculation example

Referring to the previous installation example *Stylos opening Multiblindo eMotion*, let's properly size the *Lockbus* cable and the power supply unit.



Cable sizing

First we need to list all the device's specifications composing the plant.

Device	Specifications
Stylos	- Power supply: 8/30 Vdc – 0,5A - Power consumption: 3 W - Indoor version IP54 - Placed outside the house, on the wall, in a covered place, next to the main entrance (equipped with Multiblindo eMotion). - Lockbus communication protocol.
Electric Lock Actuator	- Power supply: 8/30 Vdc – 0,5A - Power consumption: 3 W - Placed inside the house, in a box, nearby the main entrance. - Distance from Stylos: 2mt - Lockbus communication protocol
Multiblindo eMotion	- Power supply: 11 ÷ 14 Vdc - Maximum absorbed current: 1,5A - Power supply minimum characteristics: 12 Vdc / 2A (30W) - Distance from power supply 1.5mt.

According to the above table we can state that:

- Sum of the devices' power consumption on the same Lockbus = 36W.
- Total *Lockbus* length = 2mt.

Therefore we can size the power supply unit and the *Lockbus* cable as follows:

- Minimum power supply unit watt requirements: 40W (better to add some more watt to compensate voltage drop and cable heating).
- Lockbus* recommended wires cross-section, according to power and cable length: 22 AWG (0,35mm²).

Finally we can list the correct specifications in the following table.

Device	Specifications
Power supply unit	- Input 120-230Vac. - Output 12Vdc - 4A. - Power 50W
Lockbus cable	- Alarm cable 3 x 0,35mm² (22 AWG) - Capacitance 60 pF/mt.

Maintenance

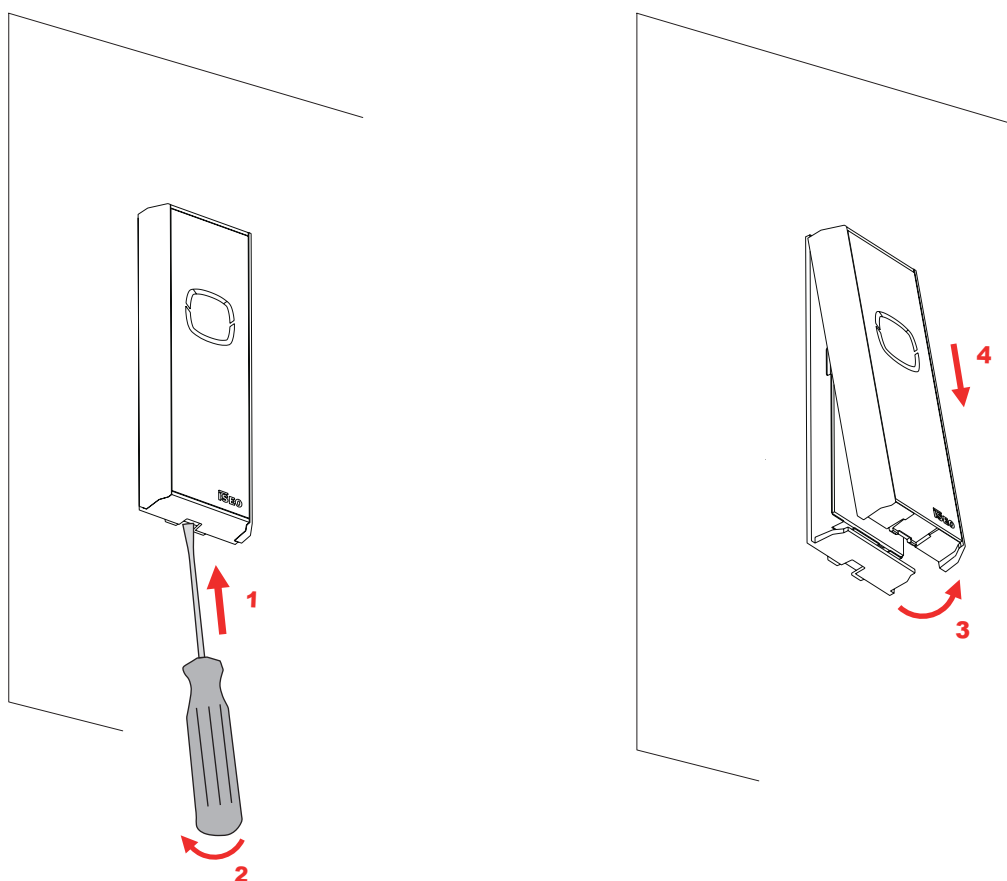
Battery replacement

Stylos has an internal cell type lithium battery used to keep date and time synchronizations. When Stylos is installed and powered from mains this battery is not used. The average lithium cell battery life is about 10 years. If you need to replace this battery follow the next procedure.



To prevent damage to the equipment and risk for the users, battery replacement must be carried out by a specialized technician.

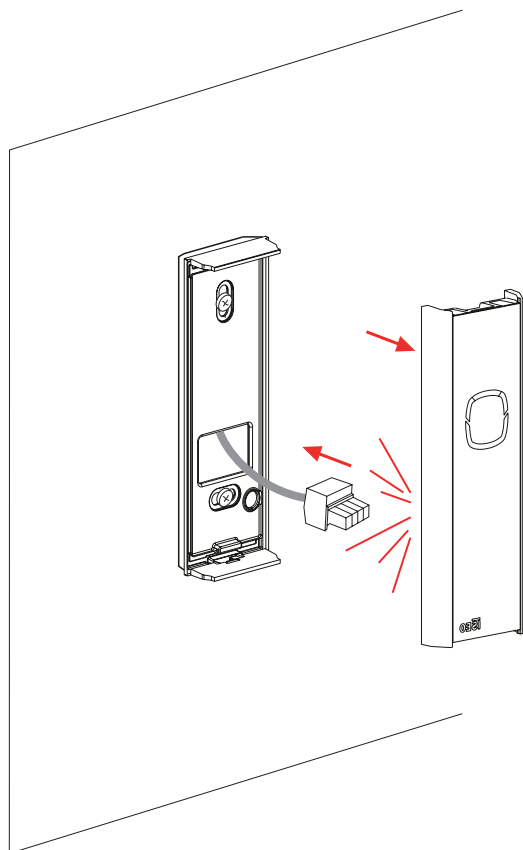
1. Remove the Stylos from the wall.



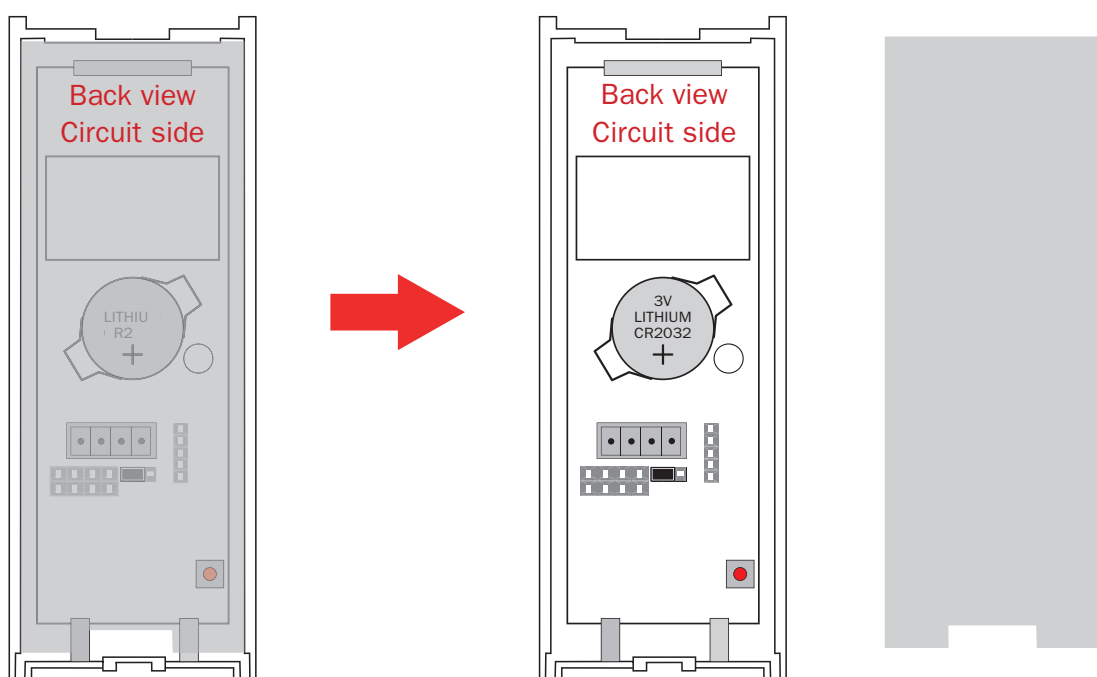
Battery replacement does not affect the data stored in the *User List*.

Maintenance

2. Disconnect the Stylos connector plug.

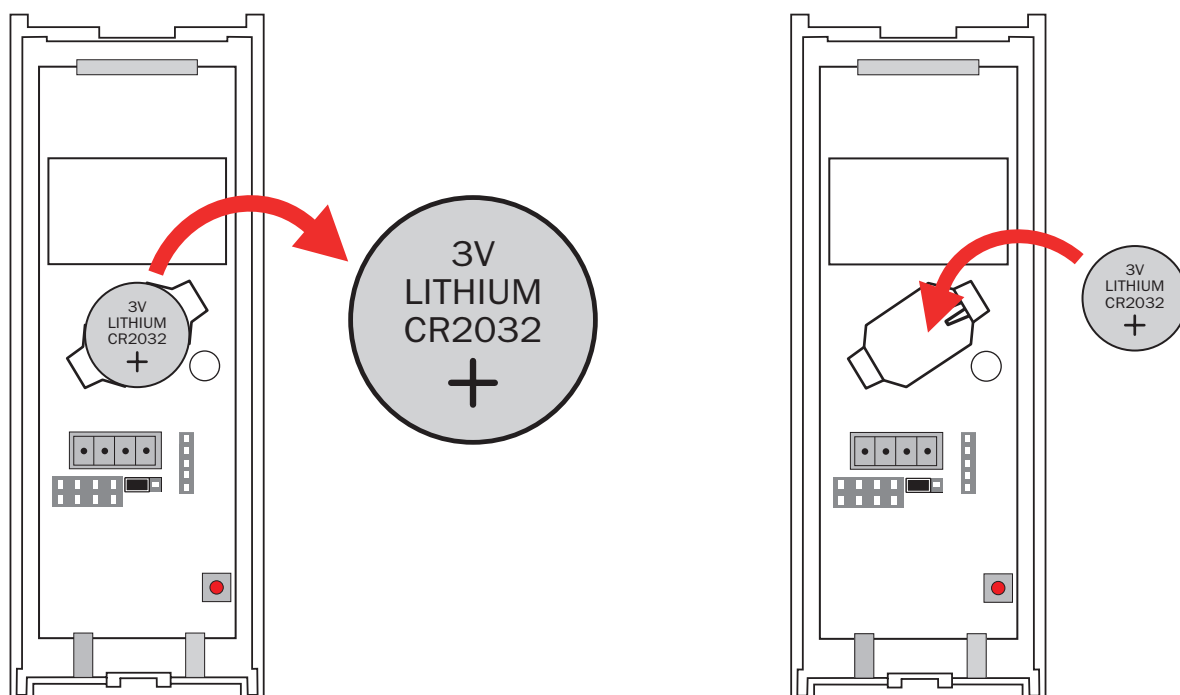


3. Remove the ESD protection.



Maintenance

4. Remove the battery using a proper tool, taking care to avoid shortcircuits or damages to the electronic board. Then install the new ones.



Do not use metal objects to help battery removal.
Risk of explosion if the battery is replaced with an incorrect type.
Battery replacement must be carried out by qualified technical staff.



The battery has to be collected separately.
Dispose of batteries according to your local environmental laws and guidelines.



If the battery is disconnected for more than 5 minute, the *Device* clock might go out of synchronization.
To synch the clock:

- *Stylos Smart*: enter *Programming Mode* with *Master Card* and the door lock will automatically take smartphone date and time.
- *Stylos*: use the maintenance tool available to synchronize the lock.

Maintenance

Cleaning

- Clean the surface with a soft, damp cloth.
- Only disinfection agents that are explicitly formulated for cleaning delicate metal surfaces and plastics may be used. If unsuitable cleaning agents or methods are used, the surface may be damaged.
- Do not spray water or other liquids directly on the *Device*.
- Do not clean with chemicals such as alcohol, thinners, benzene, acidic or alkaline solvent cleaners, abrasive cleaners, or lubricants, as these may damage the device's finish and cause discoloration.



Before performing any cleaning operation on the product, uncouple the appliance from the electrical power supply network, by opening the system switch.

Storage

- For not installed product, store Stylos in a clean dry place at a room temperature between -25°C and +75°C and relative humidity between 20% and 95%.
- For a better storage, use the original packing box.

Troubleshooting

Error messages



For this topic go to *Argo User Manual* or *V364 System Administrator Manual*, both available at iseo.com.

Stylos troubleshooting

Issue	Analysis	Solution
Stylos LEDs OFF	- Power supply failure. - Faulty power supply unit. - Faulty electrical connection on lockbus connectors. - Faulty electronic unit.	- Check if power supply is present in the positive contact of Stylos connector. - Replace power supply unit. - Check all wires connections. - Replace the Stylos.
Stylos ON but not reading cards.	- Faulty electronic unit. - Faulty electrical connections*. *Only All Weather version.	- Replace the Stylos. - Check wires connections on Card reader and Control unit.
Stylos ON, but door/gate is not opening	- Faulty appliance. - Faulty appliance power supply. - Faulty Actuator. - Faulty Actuator power supply. - Faulty electrical connections. - Faulty control unit*. *Only All Weather version.	- Check or replace appliance. - Check appliance power supply if present. - Replace Actuator. - Check Actuator power supply if present. - Replace Control unit.



For Stylos spare part codes, refer to the on-line catalogue available at iseo.com or call the *ISEOZero1 Technical Support* (go to *Technical assistance*).

Troubleshooting

Light and acoustic signals



For this topic go to “Light and acoustics signals” in the *Argo User Manual* or in the *V364 System Administrator Manual*, both available at iseo.com.

Technical assistance

For any help please contact *ISEOZero1 Technical Support*. Visit iseo.com website to find your country telephone number.

When you contact the *ISEOZero1 Technical Support* please provide the next information:

- Device Model
- Date of purchase
- Software version
- Precise description of the problem

Notes

[illegible]



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