

# creo-S

Indoor Touchscreen BUS Keypad

## Installation manual



KSIZ100050.302

### INDEX

General Safety Warnings .....	2
Introduction .....	3
Physical description .....	4
Technical characteristics .....	5
Installation .....	8
Updates .....	9
Keypad programming instructions .....	9
Diagnostic .....	11
Quantity data .....	11
Compliance .....	12

## General Safety Warnings

---

### 1. Intended Use

The creo-S keypad is designed exclusively for indoor installations on lares 4.0 systems. Any improper use may compromise the safety of the system.

### 2. Installation by Qualified Personnel

Installation, configuration, and maintenance must be carried out only by qualified technical personnel, in accordance with the instructions in this manual.

### 3. Power Supply Voltage

Ensure the voltage supplied to the device is between +10V and +15V, with a maximum current draw of 450 mA. Overvoltage or incorrect connections can cause irreversible damage to the keypad.

### 4. Protection from Short Circuits and Polarity Reversal

Pay close attention to the polarity in connections, especially at the I/O terminals M1 and M2. Use protection diodes when connecting inductive loads (e.g., relays, locks).

### 5. Installation Environment

The keypad must be installed in dry environments, with a temperature range between -10°C and +55°C. Avoid direct exposure to heat sources, intense sunlight, or excessive humidity.

### 6. Tamper Protection

The keypad is equipped with an anti-tamper switch. Verify the correct operation of the tamper contact after installation. Unauthorized removal of the device triggers an alarm event.

### 7. Firmware Updates

Keeping the software up-to-date is recommended to ensure maximum security and compatibility.

### 8. Security blocking mechanism

After 3 consecutive incorrect PIN attempts, access is locked for 90 seconds. This feature is designed to prevent unauthorized access attempts.

### 9. Disposal

Dispose of the keypad in accordance with WEEE regulations. Do not throw it in household waste. Use authorized collection centres.

### 10. Cleaning and Maintenance

Clean the keypad only with a soft cloth slightly moistened with water. Do not use aggressive detergents or spray cleaners directly on the device.



## Introduction

---

The **creo-S** keypad is the first touchscreen BUS keypad designed and manufactured by Ksenia Security, with the minimalist design that characterizes all Ksenia products.

The **creo-S** keypad is suitable for both commercial and residential environments, providing the end user with full control of the lares 4.0 control panel through the management of its Security features.

The **creo-S** keypad indeed features a 7-inch display with a resolution of 1024x600 pixels, utilizing IPS technology. This ensures excellent viewing angles and superior visual quality.

The capacitive touchscreen provides precise and immediate touch response and integrates an RFID area for reading Ksenia RFID security keys. An RGB LED for status signaling, a buzzer, and two terminals configurable as Input (NC, NO, or balanced) or Output (OC, 500 mA max) complete the device's features.

The **creo-S** keypad offers advanced protection against tampering attempts with features such as anti-removal protection to detect unauthorized removal of the device, temporary lockout after incorrect PIN entry (max 3 attempts).

Its IP30 protection rating ensures safe operation in indoor environments with an operating temperature range of -10°C to +55°C, guaranteeing reliability and optimal performance within this range.

The **creo-S** keypad connects to the KS-BUS of the lares 4.0 and is fully programmable remotely. Updates can be managed automatically via the Ksenia SecureWeb cloud connection or manually through the Web interface or the Ksenia PRO app.

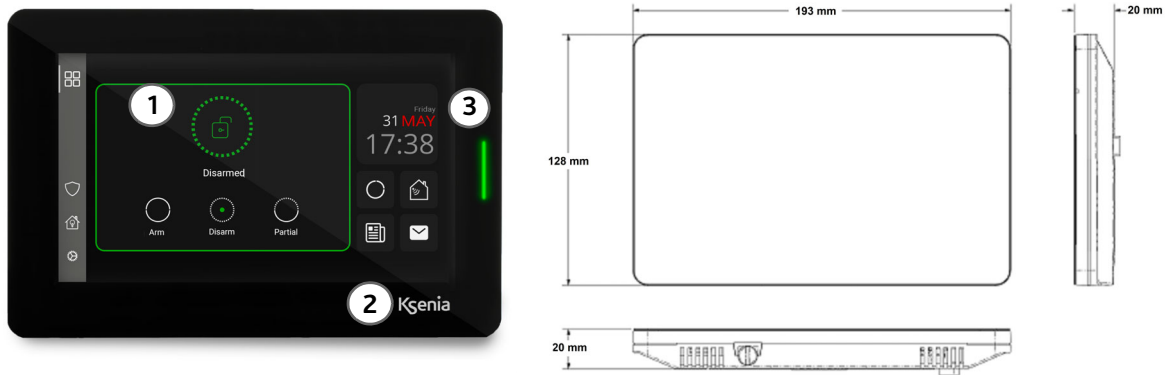
Wall installation (on DIN 503 box or 60mm round box) is extremely simple thanks to the provided plastic mounting support.

The **creo-S** keypad allows end users to intuitively manage the system, monitor the status of partitions and sensors, and customize certain features useful for the system management.

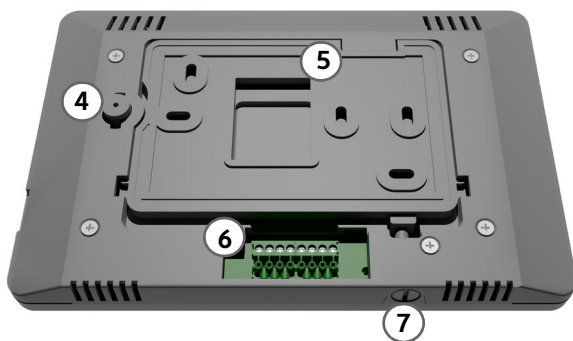
The **creo-S** keypad also offers distinct functions for user and installer, accessible through specific PINs and related to their respective access levels.

## Physical description

### Dimensions and side view



### Back view with mounting bracket



Legend	Description
1	7" touchscreen display
2	Proximity reader area with RFID technology
3	LED strip for status indication: it assumes the color corresponding to the arming state. The colors associated with the preconfigured scenarios are as follows: - Red = fully armed - Blue = partially armed - Green = disarmed
4	Anti-removal tamper
5	Plastic mounting bracket
6	KS-BUS communication terminal block + I/O terminals removable
7	Bracket locking screw

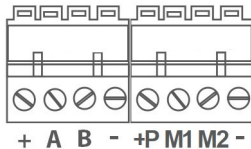
## Technical characteristics

Display	7" - Capacitive
Screen type	IPS (In-Plane Switching)
Resolution	1024x600
System interface	BUS RS-485
I/O Terminals	2 - configurable as Input (NC, NO, or balanced) or Output (OC 500 mA max) (No fast contacts)
Proximity reader	RFID technology
Buzzer	Multi-tone for action feedback
Tamper protection	Anti-removal tamper
RGB LED / Multicolor	LED strip for status signaling
Adjustments	Backlight, volume, etc.
Power supply	+10V...+15V
Power consumption	450mA max with display on 100mA max with display off
Mounting	Flat back for mounting without box (with hole for BUS cable passage). The bracket has holes for installation on a DIN 503 box or on a 60mm round box
IP Protection rating	IP 30
Operating temperature	from -10°C to +55°C
Color	Black
Dimensions / Weight	193 x 128 x 20 mm (WxHxD) / 430 g

## RFID Area

The keypad is equipped with an internal antenna that allows the installer to register the key/mini-Tag and enables its recognition by the user. To allow reading, the tag key must be brought close to the display area near the Ksenia logo.

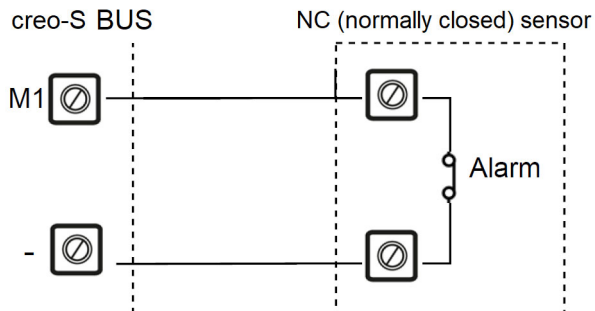
## Wiring KS-BUS, M1 and M2 terminals

Terminals description	
KS-BUS + I/O removable terminal block	
	
+ A B -	Connection terminals to lares 4.0 panel
+P	0.5A Power Supply Positive
M1, M2	Input (Programmable Zones) (ground terminal reference) or Open Collector Output 500mA each (positive +P reference) (max voltage 15V).
-	Ground terminal

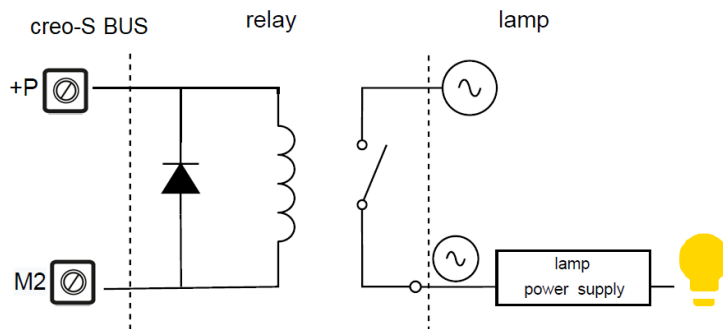
Example of connecting the creo-S keypad to the KS-BUS of the lares 4.0:



Example of connecting the M1 terminal programmed as an input (Programmable Zones)  
(ground terminal reference):

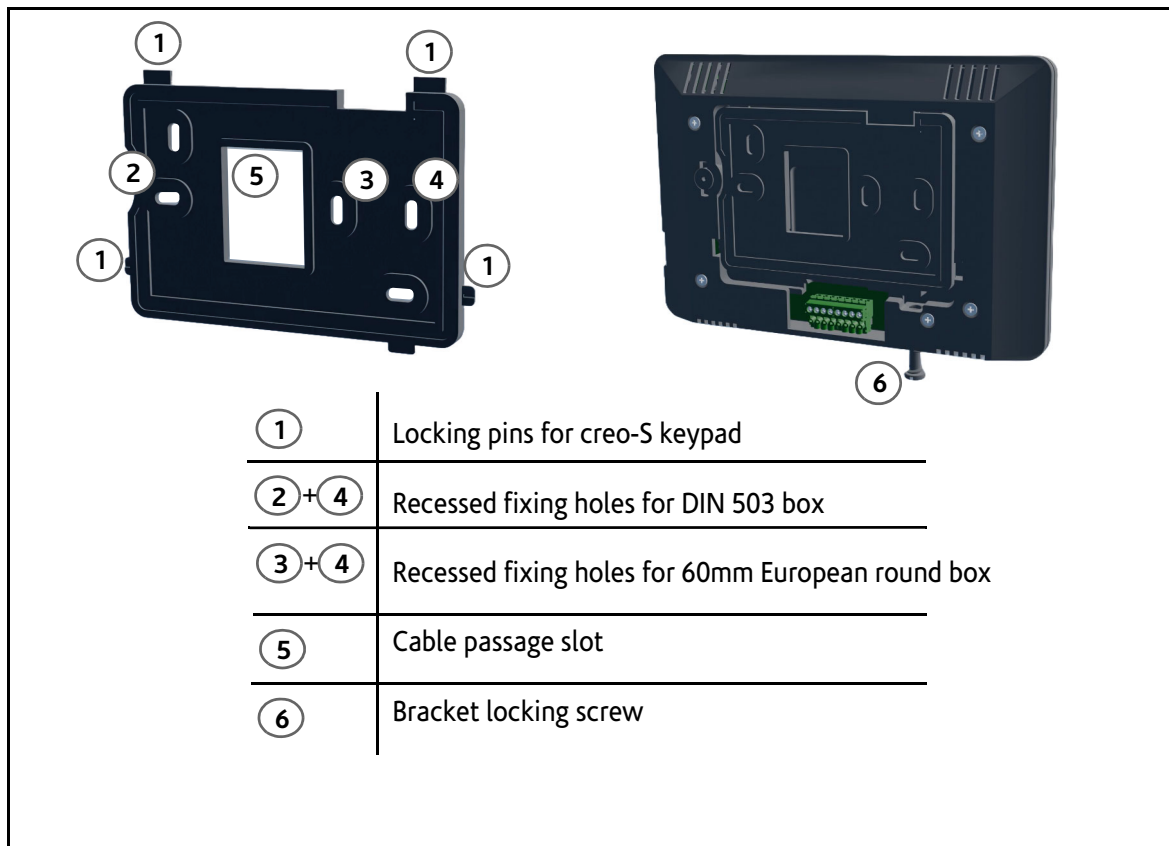


Example of connecting the M2 terminal programmed as an Open Collector Output 500mA each  
(positive +P reference):



## Installation

### Mounting the plastic bracket on the recessed box and installing the keypad



#### 1. Fixing on DIN 503 box:

Attach the plastic bracket to the wall-mounted DIN 503 box using two screws, utilizing holes (2) and (4) on the bracket.

#### Fixing on 60mm European round box:

Attach the plastic bracket to the wall-mounted round box using two screws, utilizing holes (2) and (3) on the bracket.

#### Fixing on the wall:

Attach the plastic bracket to the wall using two Ø 5mm anchors and Ø 3.5mm flat-head screws, utilizing two of the three holes (1), (2), (3) on the bracket.

2. Bring the back of the keypad close to the bracket, aligning it with the section designed for housing.
3. Slide the keypad downward until the locking pins on the bracket align with the housing sections on the back of the **creo-S** keypad.
4. Secure the bottom of the keypad with the supplied locking screw (6).

## Updates

The control panel queries the update server every 12 hours to check for available updates, or the installer can manually trigger the check via the web interface.

If an update is available, the control panel downloads it, the web interface displays the availability of the new update, and the installer starts the installation process of the update package.

## Keypad programming instructions

Remove the protective transparent film placed on the touchscreen.

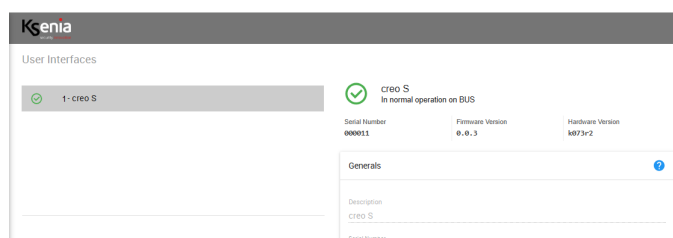
From "Installer" configuration program, open the menu <BUS Peripherals -> User Interfaces> and add the **creo-S** keypad, if correctly installed the creo-S keypad will show its serial number so it can be added in the

system configuration by clicking on icon  and then wait for the green icon  as positive feedback.

The contextual help describes whatever here is omitted.

For all the details, please consult the "lares 4.0 programming manual".

At the end of the configuration upload to the control panel, the page will appear as shown in the following image:



and the **creo-S** keypad will automatically start, displaying the following screen:

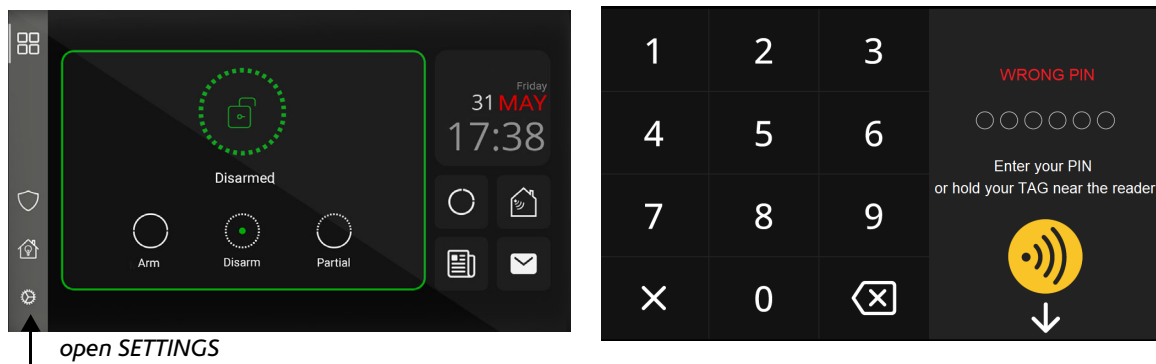


## I/O Terminal Programming

The creo-S keypad provides two terminals (M1 and M2) that can be programmed either as Inputs (from the menu <System -> Zones>) or as Outputs (from the menu <System -> Outputs>).  
The online contextual help on the configuration pages provides additional information not included here.  
For full details, refer to the "Iares 4.0 Programming Manual".

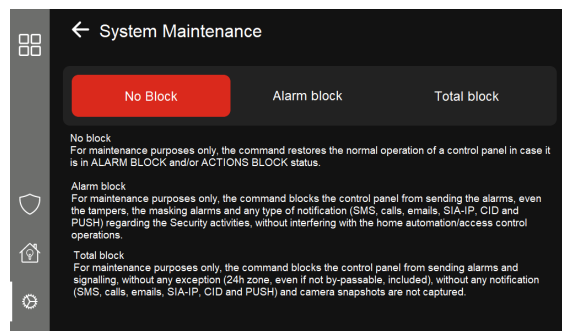
## Settings

The Settings section offers options for the end user and for installer for advanced maintenance.  
Pin code is required to open the menu (user or installer PIN code):



**When entering the user PIN code, the functions available** are: enable the beep sound and its volume, enable/disable the side RGB led side, adjust the brightness, and also installer's data, IP network and firmware version info.

**If the installer enters their own PIN code**, in addition to the features described above, they are also allowed to perform system maintenance operations such as Alarm Block, Total Block, and No Block.



## Diagnostic

---

The installer has access to a complete overview of the system status, including all BUS devices connected to each BUS line of the lares 4.0 system (remotely via the KseniaSecureWeb cloud or locally via the web interface, by opening the menu <Installer -> Diagnostics>).

## Keypad lockout due to maximum number of incorrect PIN attempts

---

The maximum number of incorrect PIN attempts is 3.

After the first and second incorrect attempts, the control panel responds with "Incorrect PIN".

At the third and final failed attempt, the control panel responds with "Max incorrect PINs" and access is blocked for 90 seconds.

The behavior is as follows:

- If the maximum number of attempts (3) has not been reached, entering the correct PIN grants access to the system and resets the counter to 3 attempts.
- If the maximum number of attempts is reached, access is denied for 90 seconds.
- If a PIN (correct or incorrect) is entered before the 90 seconds have elapsed, the timer resets to 90 seconds.
- After the 90-second timeout:
  - entering an incorrect PIN restarts the 90-second lockout;
  - entering the correct PIN grants access and resets the counter to 3 attempts.

## Quantity data

---

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of user interfaces on BUS	3	6	24	24	40	64

Technical specifications, appearance, functionality, and other product characteristics may change without notice.

## Compliance

---

Europe - Rohs, CE



**Warning! Do not use an ordinary dustbin to dispose of this equipment.**

*Used electrical and electronic equipment must be treated separately, in accordance with the relative legislation which requires the proper treatment, recovery and recycling of used electrical and electronic equipment.*

*Following the implementation of directives in member states, private households within the EU may return their used electrical and electronic equipment to designated collection facilities free of charge\*. Local retailers may also accept used products free of charge if a similar product is purchased from them.*

*If used electrical or electronic equipment has batteries or accumulators, these must be disposed of separately according to local provisions.*

*Correct disposal of this product guarantees it undergoes the necessary treatment, recovery and recycling. This prevents any potential negative effects on both the environment and public health which may arise through the inappropriate handling of waste.*

*\*Please contact your local authority for further details.*

*Installation of these systems must be carried out strictly in accordance with the instructions described in this manual, and in compliance with the local laws and bylaws in force. These products have been designed and made with the highest standards of quality and performance adopted by Ksenia Security. It is recommended that the installed system should be completely tested at least once a month. Test procedures depend on the system configuration. Ask the installer for the procedures to be followed.*

*Ksenia Security spa shall not be responsible for damage arising from improper installation or maintenance by unauthorized personnel.*

*The content of this guide can change without prior notice from KSENIA SECURITY.*