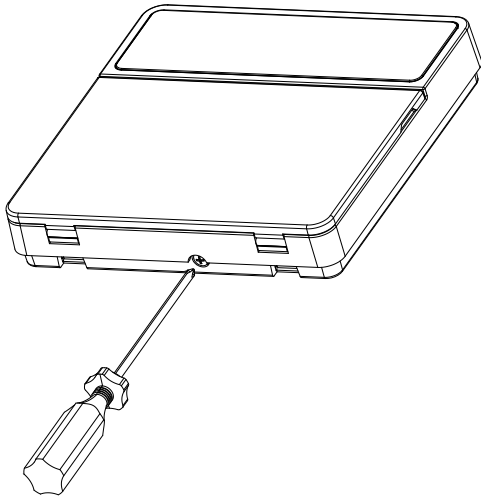


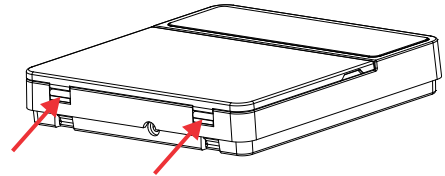
NXG-183x-EUR Series Keypad Installation Sheet

EN

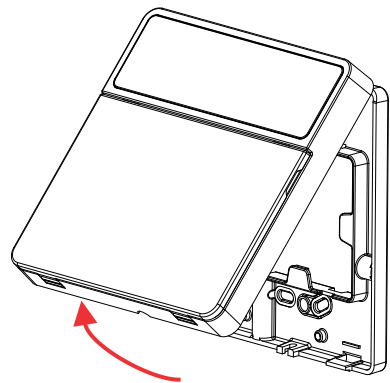
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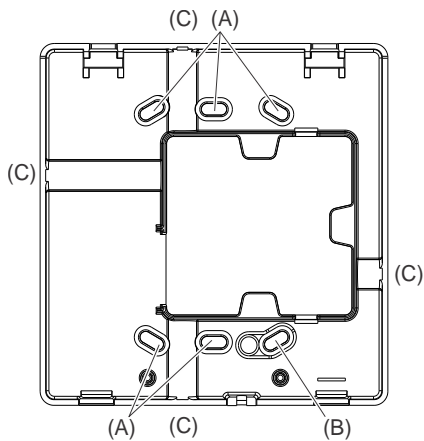
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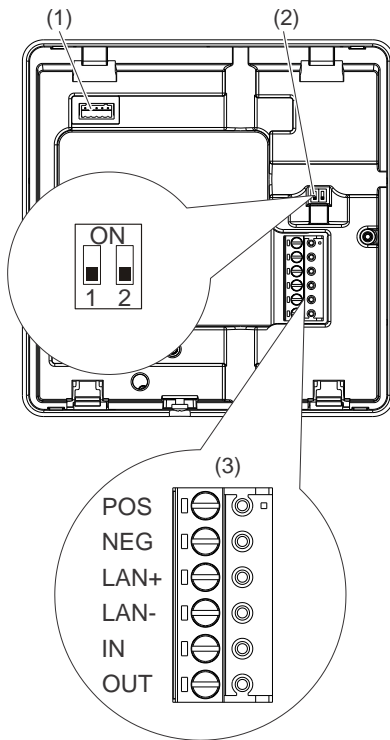
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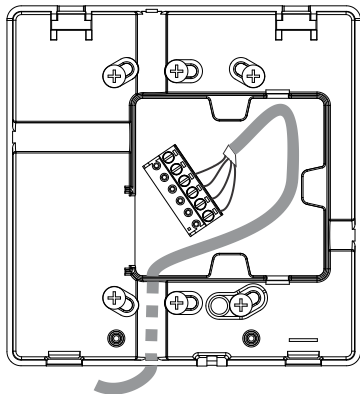
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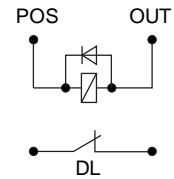
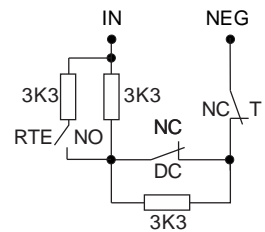
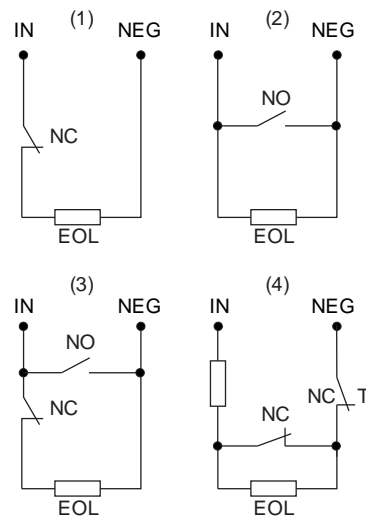
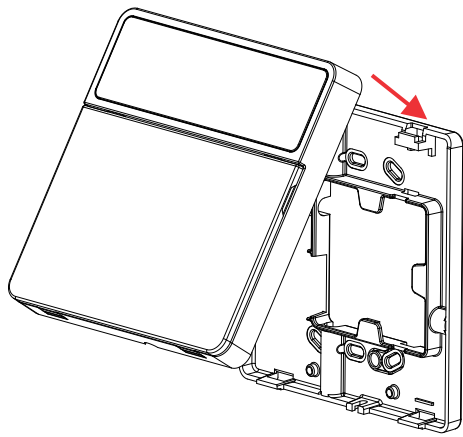


5



6





EN: Installation Sheet

Description

The NXG-183x series of keypads offers a range of keypads for the xGenConnect intrusion panel family. It offers a multicolour user interface, with clear graphical display and large buttons for ease of operation. A system can have up to 16 keypads installed.

The following keypad variants are available:

- NXG-1830-EUR: White xGen keypad
- NXG-1831-EUR: Anthracite xGen keypad
- NXG-1832-EUR: White xGen keypad with integrated Mifare card reader
- NXG-1833-EUR: Anthracite xGen keypad with integrated Mifare card reader



WARNING! The equipment is not earthed. Any external circuit connected to the equipment must be located within the same building and connected to a protective earthing conductor.

Wire insulation of cables connected to the equipment must conform to IEC 60332-1-2 and IEC 60332-1-3 or IEC 60332-2-2, depending on the wire cross sectional area, or IEC TS 60695-11-21, regardless of cross-sectional area. Alternatively, such wires must comply with UL 2556 VW-1.

Keypad Installation

Ensure that the keypad is mounted on a flat, solid, vertical surface such that the base will not flex or warp when the mounting screws and bolts are tightened.

Caution: it is not recommended to install the NXG-1832-EUR and NXG-1833-EUR keypads on metal surfaces as it may impact the card reader performance.

The keypad is connected to the control panel via the RS-485 xGen bus, up to 800 m from the control panel. It is recommended to use two-pair twisted, shielded data cable, for example, Belden 7201A, 3107A, or 9842. The shield of any bus cable must be connected to system ground at one end

only. The keypad does not provide an earth connection for this purpose.

Connections

Figure 5: Connections

- | | |
|----------------|------------------------|
| (1) USBUP port | (3) xGen bus connector |
| (2) DIP switch | |

DIP switch

The DIP switch (Figure 5, item 2) is used to enable the xGen bus termination.

- DIP switch 1: 120 Ω xGen bus termination switch
- DIP switch 2: For future use

To install the keypad, follow these steps:

1. Loosen the bottom screw. See Figure 1.
2. Gently press and release two clips located on the bottom of the keypad. See Figure 2.
3. Tilt the keypad from the bottom and remove it from the mounting plate. See Figure 3.
4. Use the mounting plate as a template to mark where the bus cable should feed through the wall. See Figure 4.
5. Drill appropriate holes and feed the keypad bus cable through the mounting plate.

The mounting plate must be mounted using at least 4 screws, using 3 mounting holes (Figure 1, items A), and the pry-off tamper mounting hole (item B).

If necessary, cut one of the moulded cable knock-outs (Figure 4, items C) to provide a cable entry from the top, left, right or bottom side.

Keep a small cable loop in a dedicated space in the base as shown in an example in Figure 6.

6. Screw the mounting plate to the flat mounting surface using provided screws.
7. Connect the bus cable to the screw terminals on the keypad. See Figure 5. Note that the connector is pluggable (see an example in Figure 6).

Connect to POS, NEG, LAN+, and LAN-.

8. IN terminal can be used to connect input signal(s) to the keypad:
- If the keypad input is used as an intrusion zone, wire the input terminal (IN) according to Figure 8 (numbering of variants is the same as in *xGenConnect Installation and Programming Guide*). The keypad input supports the same EOL values as the xGenConnect control panel, including the special EOL settings available in the panel Advanced settings under System > EOL Resistor Value. See *xGenConnect Installation and Programming Guide* for details.
- Note:** Zone doubling functionality is not supported.
- If the keypad input is used to combine the door contact (DC) and door Request to Exit (RTE) signals, wire the input according to Figure 9.
- Note:** This wiring requires the keypad parameter “RTE as a next zone” to be enabled. Only 3.3 kΩ EOL resistors can be used in this case. Other EOL resistance configurations are not supported, and relevant panel settings are ignored.
- If the input is not used, the IN terminal does not require an EOL resistor.
9. The OUT terminal can be used to control the door lock (DL) if the system supports door access features. Wire the output terminal as shown in Figure 10.
10. If the keypad is the last device on the xGen bus cable, enable the xGen bus termination by moving the bus termination switch (DIP switch 1) to the On position. See also “DIP switch” on page 2.
11. Attach the keypad to the mounting plate by sliding the top of the keypad onto the clips located on the top of the mounting plate. See Figure 7.
12. Gently push bottom side to attach the clips.
13. Tighten the bottom screw to fix the keypad to the mounting plate.

For keypad programming, see *xGenConnect Installation and Programming Guide*.

See *NXG-183x Keypad User Manual* for keypad operation details.

Firmware

The keypad is remotely upgradeable using DLX900, or locally with the USBUP-EUR-V2 service tool via the USBUP port on the keypad (Figure 5, item 1).

Specifications

| | |
|------------------------------------|--|
| Compatibility | xGenConnect panel series |
| Code combinations | 10 000 to 100 000 000 (4 to 8 digits) There are no invalid code combinations. |
| Voltage | 9 to 15 VDC (provided by panel) |
| Current consumption (at 13.7 V DC) | |
| Nominal | NXG-1830-EUR, NXG-1831-EUR: 90 mA NXG-1832-EUR, NXG-1833-EUR: 130 mA |
| Minimal (all lights off) | NXG-1830-EUR, NXG-1831-EUR: 35 mA NXG-1832-EUR, NXG-1833-EUR: 40 mA |
| Maximum | NXG-1830-EUR, NXG-1831-EUR: 160 mA NXG-1832-EUR, NXG-1833-EUR: 200 mA |

| | |
|-----------------------------------|--|
| Input | Resistive, wiring compliant with xGenConnect panel inputs |
| Output | NXG-1832-EUR, NXG-1833-EUR only Open collector type Internal 10 kΩ pullup to Main PWR line |
| Max. load for OC sink | 100 mA |
| Max. voltage connected externally | 16 VDC |
| Overcurrent protection | Built in |
| Mifare reader | NXG-1832-EUR, NXG-1833-EUR only |
| Carrier frequency | 13.560 MHz |
| Bandwidth | 1.696 MHz |
| Maximum power output | 42 dBμA/m |
| Supported cards | NXG-180x-5 (compatible with Mifare DESFire EV2, EV3) |
| Wiring | xGen 4-wire bus 0.05 to 2.50 mm ² , 14 to 30 AWG |
| Mounting height | ≤2 m |
| Dimensions (W × H × D) | 133 x 130 x 25 mm |
| Colour | NXG-1830-EUR, NXG-1832-EUR: White NXG-1831-EUR, NXG-1833-EUR: Anthracite |
| Weight | 0.3 kg |
| Operating temperature | -10 to +50°C |
| Maximum relative humidity | 95% noncondensing |
| Serviceable parts | There are no serviceable parts |


Regulatory information

| | |
|--------------|---|
| Manufacturer | Placed on the market by: Carrier Fire & Security Americas Corporation Inc. 13995 Pasteur Blvd Palm Beach Gardens, FL 33418, USA Authorized EU manufacturing representative: Carrier Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands |
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|----------------------------------|--|
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For more information on warranty disclaimers and product safety information, please check <https://firesecurityproducts.com/policy/product-warning/> or scan the QR code.

| | |
|---------------------------|---|
| Certification |  EN 50131-3 Security Grade 2, Environmental class II Tested and certified by Telefication B.V. |
| European Union directives | NXG-1830-EUR, NXG-1831-EUR: Carrier Fire & Security hereby declares that this device is in compliance with the applicable requirements and provisions of the Directive 2014/30/EU and/or 2014/35/EU. For more information see firesecurityproducts.com |

NXG-1832-EUR, NXG-1833-EUR: Carrier Fire & Security hereby declares that this device is in compliance with the applicable requirements and provisions of all applicable rules and regulations, including but not limited to the Directive 2014/53/EU. For more information see: firesecurityproducts.com

REACH

Product may contain substances that are also Candidate List substances in a concentration above 0.1% w/w, per the most recently published Candidate List found at ECHA Web site.

Safe use information can be found at <https://firesecurityproducts.com/en/content/intrusion-intro>



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Product documentation



Please consult the following weblink to retrieve the electronic version of the product documentation.

This link will guide you to the EMEA regional contact page. On this page you can request your login to the secured web portal where all manuals are stored.

<https://firesecurityproducts.com/en/contact>

Contact information

www.firesecurityproducts.com/en/page/caddx