2N® Access Unit – Keypad only
(916008E)

Data sheet and technical specifications

Basic description

The **2N® Access Unit (Keypad only)** is a reliable access control system based on IP technology using PIN codes for access control. **Order number is 916008E**

The solution consists of three parts (see pictures above)**:**

- **2N® Access Unit without RFID module**. This unit is connected to IP network (via Ethernet cable) and works as a controller for the connected keypad. Inputs and outputs are placed inside this unit. This unit should be installed inside a secured area (hidden behind the wall or in the ceiling).

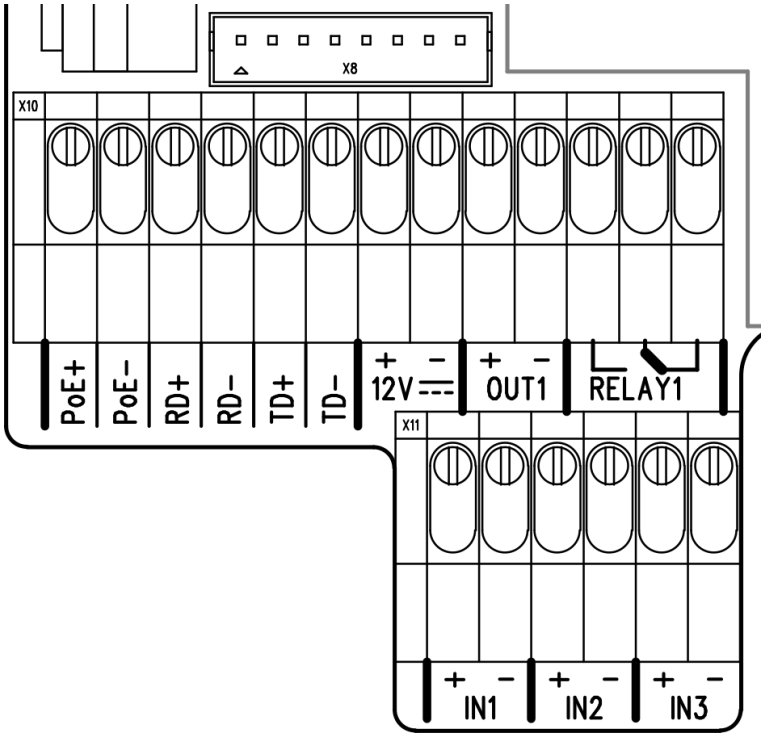
  Note: this unit doesn´t read RFID cards.

- **Keypad module** – this module is installed next to the secured door and is connected via 5m long Vbus cable (included in the package) to 2N® Access Unit.

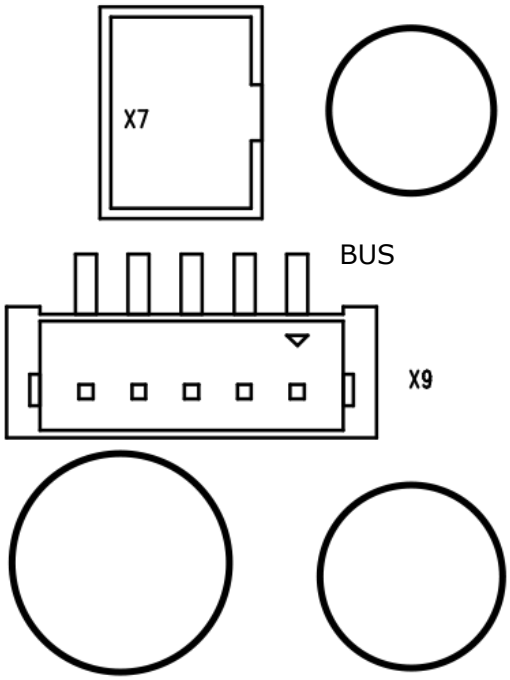
Connectors

The **2N® Access Unit** includes the following elements and connectors accessible to the user:

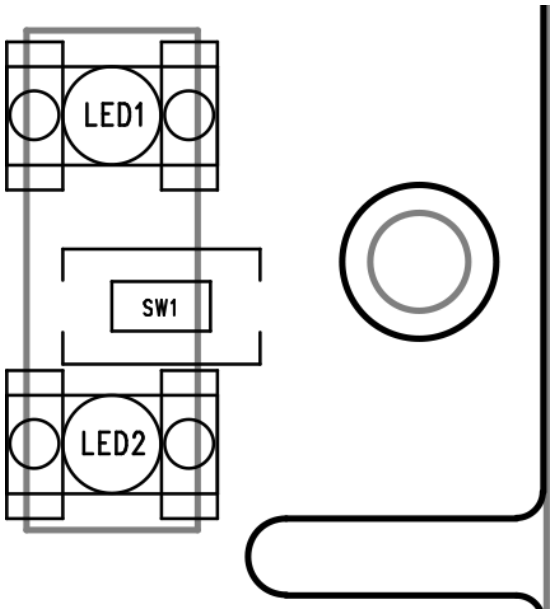
- Connector description (X10 / X8 / X11)
  - LAN RJ45 cable reduction
  - LAN connection (PoE 802.3af (Class 0; 12.95W))
  - 10/100BASE-TX Auto-MDIX
  - RELAY – max. 30V / 1A AC/DC
  - Output – 8V up to 12V DC, max 500mA
  - Inputs: passive or active mode (-30V to +30V DC)
    OFF = not connected or U_{in} > 1.5 V
    ON = connected or U_{in} < 1.5 V



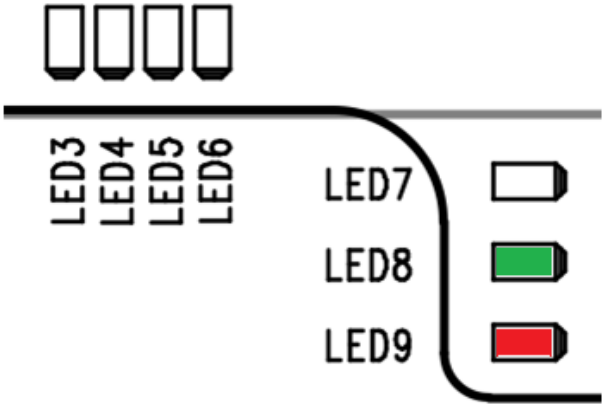
- X9 - 2N® Access Unit bus connector



- SW1 - RESET / FACTORY RESET button



- LED Signalization:
  - LED1, LED2 - status signalling LED (picture above)
  - LED3, LED4, LED5 - I/O signalization IN1 - IN3
  - LED6 - relay signalization - RELAY1
  - LED7 - LAN activity signalization
  - LED8, LED9 - LED signalization (green and red)



IP address settings

- Default setting is DHCP ON
- To switch DHCP OFF press and hold the REST button (SW1).
  - Wait until the red and green signalization LEDs (LED8 and LED9) on the device come on simultaneously (approx. 15 s).
  - Wait until the red LED goes off (approx. 5 s).
  - Release the RESET button.
- To tell the IP address press and hold the REST (SW1) button.
  - Wait until the red and green signalization LEDs on the device come on simultaneously (approx. 15 s).
  - Release the RESET button. The device announces the current IP address via inbuilt speaker (in the Access Unit) automatically.
- Use 2N® Helios IP Network Scanner to locate the unit in the network

Refer to the **2N® Access Unit** **Configuration Manual** for more information regarding the installation and configuration.

Technical Parameters

Audio

- **Speaker:** 0.8 W / 8 Ω

Interface

- **Power supply:** PoE and/or 12V ±15 % / 2A DC
- **PoE:** PoE 802.3af (Class 0–12.95 W)
- **LAN:** 10/100BASE-TX with Auto-MDIX, RJ-45, connecting block or pigtail RJ-45
- **Recommended cabling:** Cat-5e or higher
- **Supported protocols:** DHCP opt. 66, SMTP, 802.1x, TFTP, HTTP, HTTPS, Syslog
- **Active switch output:** 8 to 12V DC according to power supply (adapter: source voltage minus 2 V; PoE: 10V), up to 500 mA
- **Passive switch:** make and break contact, up to 30V / 1A AC/DC
- **Inputs:** 3 inputs in passive / active mode (-30V to +30V DC)
  - OFF = open or U_{in}> 1.5 V
  - ON = short-circuit or U_{in}< 1.5 V
- **Tamper switch** is a native part of the **2N® Access Unit**

Mechanical properties

- **Cover:** Robust zinc cast with surface finish
- **Operating temperature:** -40 °C to 60 °C
- **Operating relative humidity:** 10 % – 95 % (non-condensing)
- **Storage temperature:** -40 °C to 70 °C
- **Dimensions:**
  - Wall (surface) mounting frame:
    - 1 module: 107 (W) x 130 (H) x 28 (D) mm
  - Flush mounting frame:
    - 1 module: 130 (W) x 153 (H) x 5 (D) mm
  - Flush mounting box (minimum hole dimensions):
    - 1 module: 108 (W) x 131 (H) x 45 (D) mm
- **Weight:** Max weight: 2.5 kg
- **Cover rating:** IP54