



2N® Access Unit Fingerprint reader (916019)

Data sheet and technical specifications



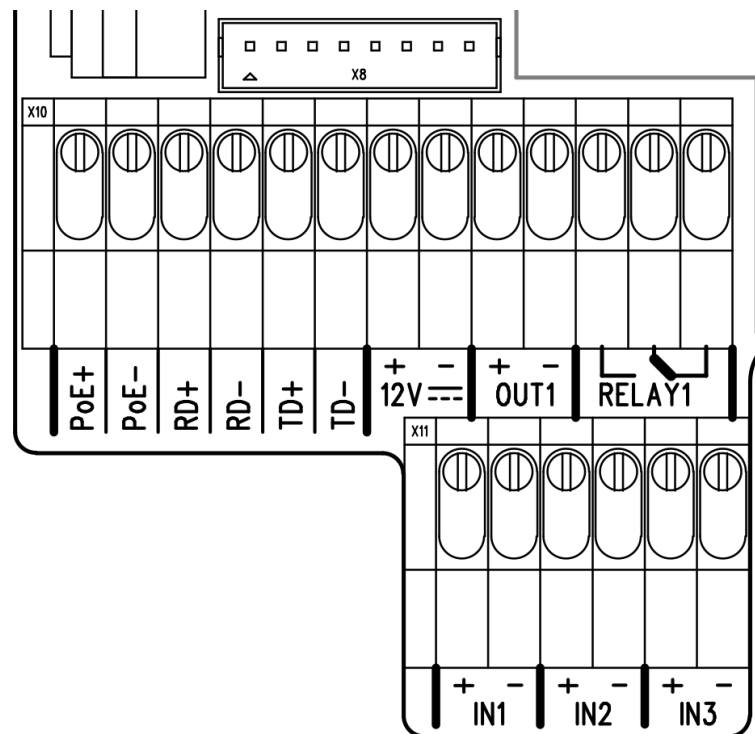
Basic description

The **2N® Access Unit Fingerprint reader** is a luxury looking and absolutely reliable biometric access control system based purely on IP technology. It brings you a safe and convenient way how to open doors using your fingers. **Order number is 916019.**

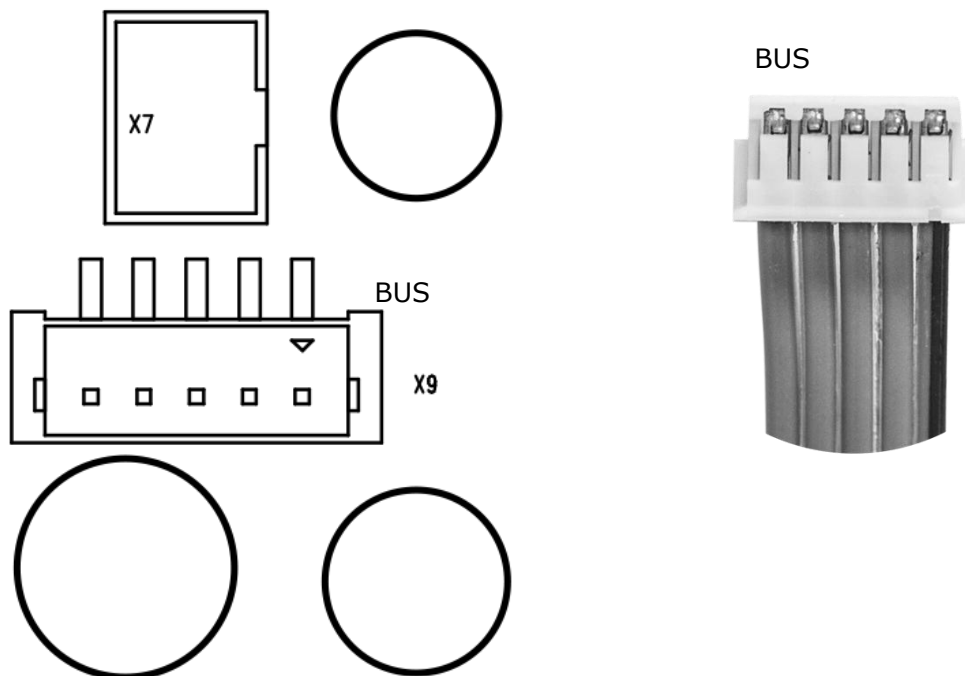
Connectors

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

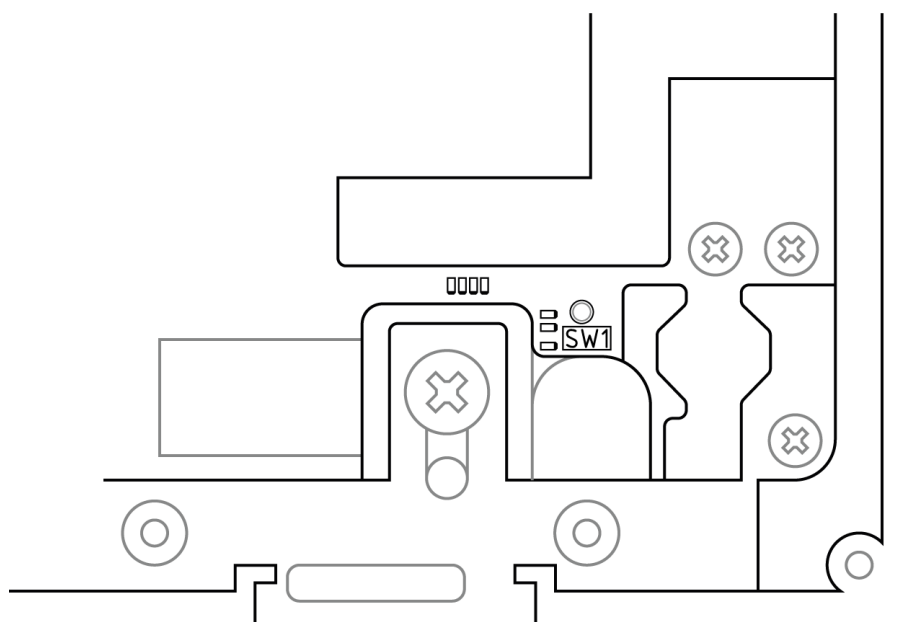
- Connector description (X10 / X8 / X11)
 - X8: LAN RJ45 cable reduction
 - X10: LAN connection (PoE 802.3af (Class 0; 12.95W))
10/100BASE-TX Auto-MDIX
Relay: max. 30V / 1A AC/DC
Output: 8V up to 12V DC, max 550mA
 - X11: Inputs: passive or active mode (-30V to +30V DC)
OFF = not connected or $U_{in} > 1.5 V$
ON = connected or $U_{in} < 1.5 V$



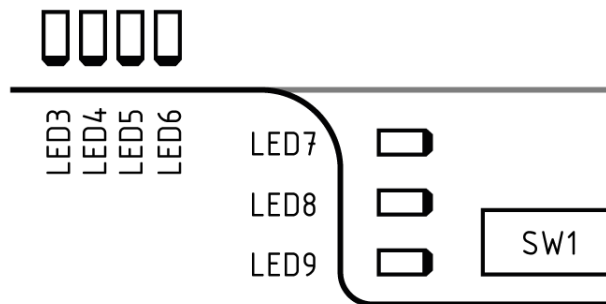
- X9 - 2N® Access Unit bus connector



- 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, LED8 - LED signalization (**green** and **red**)...see below
 - LED9 - LAN activity signalization (**orange**)



IP address settings

- Default setting is DHCP ON
- To **switch DHCP OFF** press and hold the RESET button (SW1).
 - Wait until the red and green signalization LEDs (LED7 and LED8) on the device come on simultaneously (approx. 15 s).
 - Wait until the red LED goes off (approx. 5 s) and release SW1 button
- To **tell the IP address** press and hold the RESET (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.
- To **make a factory reset** of the unit press and hold SW1 button.
 - Wait until the red and green LEDs in the right-hand bottom part of the motherboard shine simultaneously (approx. 20 s).
 - Wait until the red LED goes off (approx. 5 s).
 - Wait until the green LED goes off and the red LED comes on again (another 5 s).
 - Wait until the red LED goes off (approx. 5 s) then release SW1 button
- Use 2N® Helios IP Network Scanner to locate the unit in the network



Technical Parameters

Audio

- **Speaker:** 0.8 W / 8 Ω

Interface

- **Power supply:**
 - 6 - 24V / 2A DC for 2N® Master Unit
 - 12 - 24V / 2A DC for 2N® Access Unit
- **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
- **Passive switch:** dry and wet contact, up to 30V / 1A AC/DC
- **Active switch output:** 8 to 12V DC according to power supply (adapter: source voltage minus 2 V; PoE: 10V), up to 500 mA
- **Tamper switch** is part of the **2N® Access Unit**
- **Inputs: passive / active mode (-30V to +30V DC)**
 - OFF = open or $U_{in} > 1.5 \text{ V}$
 - ON = short-circuit or $U_{in} < 1.5 \text{ V}$

Fingerprint reader

- Large image capture area: 15.24 x 20.32 mm
- Durable glass touch surface
- Rejects spoof fingerprints
- USB2.0 High Speed and UART serial interfaces
- Multicolor LEDs for status indication
- Sealed against water and dust – IP64 rating from front
- Ambient light rejection. Sunlight operation
- Low Power Idle Mode
- Operating temperature range: -20° to 55°C
- FBI PIV and Mobile ID certification; FAP20*

Mechanical properties

- **Cover:** Robust zinc cast with surface finish
- **Operating temperature:** -20 °C to 55 °C



- **Operating relative humidity:** 10 % – 95 % (non-condensing)
- **Storage temperature:** -20 °C to 60 °C
- **Dimensions (1-module solution):**
 - Wall (surface) mounting frame: 107 (W) x 130 (H) x 28 (D) mm
 - Flush mounting frame: 130 (W) x 153 (H) x 5 (D) mm
 - Flush mounting box (minimum hole): 108 (W) x 131 (H) x 45 (D) mm
- **Weight:** Max weight: 0.8 kg
- **Cover rating:** IP54

Refer to the **2N® Access Unit [Configuration Manual](#)** for more information regarding the installation and configuration.