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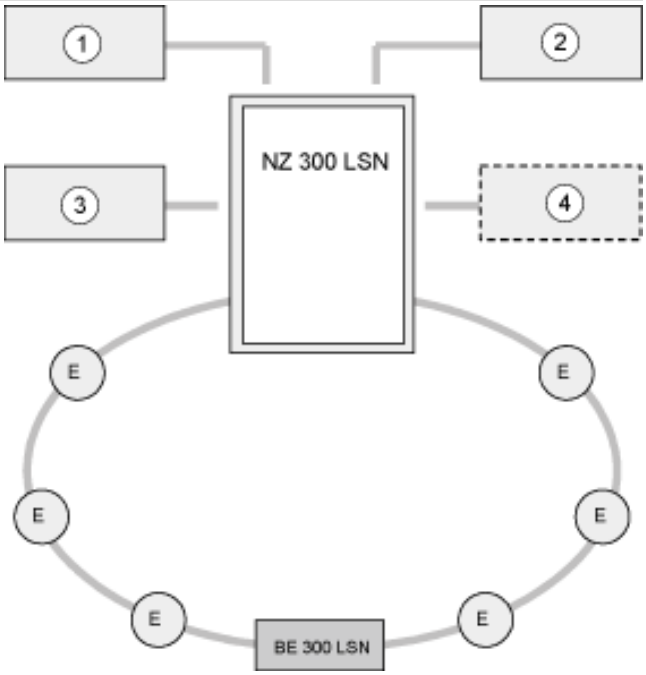
# NZ 300 LSN Intrusion Control/Commander


- 8 detection areas
- 8 remote key-pads
- 4 internal programs
- 1 LSN loop or 2 LSN stubs with 127 LSN elements and up to 140 detector addresses
- Single detector identification
- All outputs freely programmable
- Simple programming using NzPara
- Integrated auto dialer (dialing modem)
- TeleService function
- 40 users

The NZ 300 LSN Intrusion Alarm Control Panel and the BE 300 LSN key pad ensure a high degree of flexibility and reliability. This is achieved through the use of the LSN Local SecurityNetwork. The Local SecurityNetwork LSN features a single, wire-saving transmission technology allowing all detectors and control elements of a security system to be connected to a danger detection system.

The NZ 300 LSN has tele-service function. The separate BE 300 LSN key pad is used for operation, alarm signaling and status display.

## System Overview




1 Telephone network
2 Transmission unit
3 External sounder

4 Configuration/programming PC

E LSN element

## Functions

1. The BE 300 LSN key pad functions as a separate display/ control panel for the NZ 300 LSN. The BE 300 LSN is integrated into an LSN loop or LSN stub. A maximum of eight BE 300 LSN can be switched on.
2. Assistance providers can be informed using the following as desired: a transmission unit (TU), an integrated auto-dialer, an auto-dialer such as the AT 2000 (internal or in separate housing), 2x acoustic and 1x visual external sounders (local alarm activation).
3. The following switch outputs are available: switch output for faults (1x fault relay), switch output for alarms (1 x TU relay), freely programmable switch output (1x relay), freely programmable central panel points (2x open collector outputs).
4. The NZ 300 LSN allows a maximum of 8 detection areas The main area or the control unit area must be in detection area 1 The areas are defined when configuring the NZ 300 LSN.
5. Four independent part-set options can be formed by allocating detectors (freely configurable). Each area can be "internally armed" on an individual basis.
6. The NZ 300 LSN features a background memory that stores the last 1024 events. All alarms, malfunctions, deactivations and control unit resets are stored. The events are saved together with date and time. They can be shown on the display of the BE 300 LSN or at a PC monitor. In addition, the events can be printed out via PC.

## Certifications and Approvals

VdS approval number: G 100070, C

VdS approval number: G 101806, A (integrated auto dialer)

NZ 300 LSN

| Certification/ approval number | Language | Product ID |
|---|---|---|
| | England | 4.998.111.880 |

The programming software NzPara is available in English and Italian.

BE 300 LSN

| Certification/ approval number | Country variant | Product ID |
|---|---|---|
| | England | 4.998.111.881 |

The texts on the BE 300 LSN key pad are freely programmable.

## Installation/Configuration Notes

Energy balance

Energy balance is implemented according to VDE 0833 and is created using the "UEZPRO" planning and current calculation program. The limiting values of the NZ 300 LSN are automatically calculated and displayed.

The integrated power supply can charge batteries up to a capacity of 34 Ah. The maximum power unit current (battery charge current + standby current) is 2.4 A. The back-up time is 60 hours maximum.

The NEV 300 LSN power supply can be used should an additional separate power supply be necessary.

LSN planning

| Applications/Requirements | NZ 300 LSN |
|---|---|
| Creating loops and stub lines. | 1 x loop or max. 2 x stubs possible. It is preferable to use the loop arrangement because of the higher security of loop lines compared to stub lines. |
| Combining LSN interface modules and LSN detectors. | Combination of LSN interface modules and LSN detectors is possible on a loop or stub line. |
| Combination of automatic and manual LSN detectors. | Combination of automatic and manual LSN detectors is possible. |
| Connecting conventional detectors. | Conventional emergency call detectors are connected with the help of the NNK 110 LSN expansion module via 4 primary DC lines or via the KD 55-1 LSN with 2 primary lines. |
| Power supply + U/0V | When calculating the cable length +U/ 0V of the LSN interface modules NNK 110 LSN and NVK 100 LSN, it is important to note that the LSN interface modules require a minimum supply voltage of 9V. |
| Connecting LSN Elements (E) [1.] | max. 127 LSN elements (depending on current consumption). |
| Input addresses [2.] | 140 max. |
| Output adresses [3.] | 64 max. |
| Maximum current | Max. 100 mA LSN line voltage |
| Cable length | Max. 1000m with loop formation max. 1000m with stub formation (total amount) |

1. LSN elements (E) consist of LSN interface modules, LSN detectors etc.
2. Input addresses of detectors, interfaces, arming devices etc.
3. Output addresses of e.g. LEDs.

Arming devices

The following arming devices can be used in conjunction with the NZ 300 LSN: SmartKey, blocking element, key switch (only contact key switches), BE 300 LSN (user code).

The blocking element must be connected using the expansion module NVK 100 LSN. The key switch can be connected at any interface module input. The key switch should be mounted in the vicinity of the BE 300 LSN to monitor arming/disarming.

The SmartKey key administration is performed at the control panel via NzPara with max. 40 SmartKey keys.

## Parts Included

| Type | Qty. | Components |
|---|---|---|
| NZ 300 LSN | 1 | NZ 300 LSN with housing and connector board including integrated auto dialer and power supply unit. |

## Technical Specifications

| | |
|---|---|
| Approval for telecommunications device | CE 0682 |
| **Housing** | |
| • Dimensions (H x W x D) | 460 x 380 x 97 mm |
| • Color | Light gray / RAL 7035 |
| Weight (batteries not included) | 2 kg |
| Weight (batteries included) | 15 kg |
| **Environmental conditions** | |
| • Ambient temperature (In operation) | - 5° C to + 45° C |
| • Storage and transport temperature | -20 °C to +60 °C |
| • Environmental class | II (VdS 2110) |
| • Housing protection type | IP 40 |
| **Electromagnetic compatibility (EMC)** | |
| • Interference immunity | DIN EN 50130-4 |
| • Interference emissions | DIN EN 50081-1 |
| **Power supply** | |
| • Protection class | I (DIN VDE 0106 Part 1) |
| • AC line voltage | 230 V |
| • AC line frequency | 50 Hz |
| • Power pack | 12 V / 2.4 A |
| • Output voltage | 13.2 V at 323 K (50° C) to 14.5 V at 273 K (0° C) |
| • Battery capacity | 12 V / 2 x 17 Ah |
| • Back-up time | max. 60 hours |
| • Current consumption | 180 mA |

The max. power pack current (battery charge current + standby current) is 2.4 A.

| | |
|---|---|
| **LSN Technology** | |
| • Line voltage | Approx. 30 V |
| • LSN line current (loop or total of stub lines) | max. 100 mA |
| • Cable network | 1 loop with max. 1000m or 2 stub lines totaling 1000m max. |
| **Transmission unit** | |
| • Principle | Floating NO contact |
| • Contact load | 30 W / 1 A |
| • Activation time | 3 - 180 sec, continuous |
| **External sounders** | |
| • Principle | Pole reversal |
| • Line voltage | approx. 6 V |
| • End of line resistor (EOL) | 12.1 k Ohm |
| • Activation time | 3 - 180 sec, continuous |
| **Auto dialer transmission protocol** | |
| • Telephone network | analog |
| • Procedure/protocol<br>Call/identification numbers | Telim<br>max. 4 |
| **Serial interface** | |
| • V.24 range | max. 25 m |
| • Transmission speed | 9600 bit/s |
| • Transmission protocol | VdS 2465 |
| **Switch outputs central panel points** | |
| • Principle | Open collector (short-circuit proof) |
| • Maximum voltage | 11 V to 15 V |
| • Maximum current | 100mA |
| **Switch output fault relay** | |
| • Principle | Floating NO contact |
| • Contact load | 30 W / 1 A |
| • Activation time | 3 to 180 sec, continuous |
| **Switch output free relay** | |
| • Principle | Stand-by contact |
| • Contact load | 30 W / 1 A |
| • Activation time | 3 to 180 sec, continuous |

## Ordering Information

| | |
|---|---|
| NZ 300 LSN Intrusion Control/Commander | 4998031142 |
| **Accessories** | |
| NEV 300 LSN Power Supply<br>Additional power supply for LSN control panels | 4998111983 |
| Cabinet for NZ 500/NZ 300 | 4998014116 |
| AT 2000 mounting kit in NZ 300 | 4998068041 |
| 28 V voltage converter | 4998108857 |

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