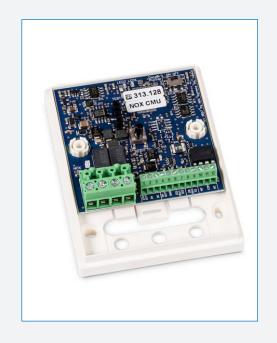
NOX CMU • N232-G3

NOX CMU (rev. F)

Universal Wiegand interface card reader module, with optional bit format and memory.

NOX CMU specifikations

- Freely programmable card format, and fits one card reader.
- Up to 204 issued cards remain functional, even in the event that communication to the NOX control panel is interrupted.
- The 204 card slots can be defined as cyclic, fixed (offline) or a combination of both.
- Bus interface of 26-80 bit Wiegand, up to 150 meters between reader and interface.
- One freely programmable relay output (30VDC / 1A).
 - One free programmable open collector output.
- One monitored programmable input.
 - Two open collectors, can be set separately for input / output.



| Technical data | | | | | | | | |
|--|------|--------------------------------|---------|-----------------|--|--|--|--|
| | Unit | Min. | Nominal | Max. | | | | |
| Supply voltage | VDC | 8 | 15.0 | 16 | | | | |
| Current consumption @ 15 VDC | mA | 12 | | 18 | | | | |
| Operating Tempreature range | °C | 0 | 25 | 40 | | | | |
| Air humidity @40°C (Non-condensing) | % RH | | | 93 | | | | |
| Input resistance, Absolute Max rating | kΩ | 2 | | 300 | | | | |
| Input resistance, recommended range | kΩ | 3.5 | 12 | 50 | | | | |
| VBUS Output (Pin 1) @ 20°C | mA | | | 200 | | | | |
| 5 VDC Output (Pin 4) 5 sec. pulse | mA | | | 150 | | | | |
| 5 VDC Output (Pin 4) @ 15 VDC | mA | | | 30 | | | | |
| 5 VDC Output (Pin 4) @ 10 VDC | mA | | | 70 | | | | |
| Relay | | max. 30VDC / 1A | | | | | | |
| Open collector output (Pin 3) | | max. 25 VDC / 500 mA | | | | | | |
| TTL Outputs (Pin 6 og 7) | | 5VDC / 20mA each | | | | | | |
| Measurements - cabinet (L x W x H) | mm | 85 x 66 x 27 | | | | | | |
| Protection class according to IEC 60529 | | IP2O | | | | | | |
| Offline mode - relay reaction time | ms | 2 | | 400 | | | | |
| Card memory | | Op til 204 kortkoder (80 bits) | | | | | | |
| Wiegand bit length | μs | 20 | | 300 | | | | |
| Cable length for inputs/outputs on terminal P3 | m | | | 30¹ | | | | |
| Cable length for card readers Data 0 / Data 1 | m | | | 30 ² | | | | |



^{1 2} NOX systems guarantee up to 30 meters

NOX CMU • N232-G3

Features

In offline mode (no connection to NOX central) the device operates in stand-alone mode, which allows you to open the door through the integrated relays using a stored card.

The unit offers a resistance monitored input, a relay output, an Open Collector output and two configurable I / O.

On the Wiegand interface you can read up to 80 Wiegand bits. They are processed in the NOX central unit and allow very flexible programming (via NoxConfig) to generate short codes.

Keyboards on card readers are also supported.

With Jumper P4 you can set $4.7k\Omega$ pullup resistors for Wiegand data 0 / Data 1 lines. If TTL I/O is configured as an input, a $4.7k\Omega$ pullup is automatically applied to this input.

Pin 6 and Pin 7 can be configured via NoxConfig as input or output.

| | Tern | | | | | | |
|-------------|-------------|------------|--------------------|-------|--------|-----------|--|
| Terminal P2 | + | - | A | В | | | |
| Pin | 8 - 16 VDC | GND | Bus A | Bus B | | | |
| Description | Supply volt | age (VBUS) | NOX Bus connection | | | | |
| | | | | | | | |
| Terminal P3 | 1 | 2 | 3 | 4 | 5 | 6 | |
| Pin | 8- 16 VDC | Input | O.C. Output | 5 VDC | GND | TTL 1 I/O | |
| Description | VBUS | | | Power | | TTL I/O's | |
| | 7 | 8 | 9 | 10 | 11 | 12 | |
| Pin | TTL 2 I/O | Data O | Data 1 | N.O. | Common | N.C. | |
| Description | TTL I/O's | Wie | gand | | Relay | | |

NOTE

If an inductive load is connected to the relay, a "freewheel" diode in anti-parallel (ie in the opposite direction of the relay terminals used) must be connected! If the diode is used in the forward direction, it is destroyed on first use and the protective effect of the relay contacts against contact combustion disappears! $\$ The diode must have at least the following data: If \ge 1A, Ublock \ge 60V (eg 1N4007).

