Neutron™ Economical Single-Door Controller

Up to 8 Neutron controllers can be networked together to provide a small system, with the option of “in” and “out” readers.

- Economical mini-controller for a single door
- Works exclusively with Keri’s Visual Doors™ software
- Networkable via RS-485 for up to 8 controllers
- Supports Keri NXT and NXT-E readers
- Capable of In/Out access using Keri’s a NXT-E reader in conjunction with a standard NXT reader
- 1000 credential capacity
- 4000 Event buffer (offline)
- Equipped with dedicated inputs for REX & Door Sense
- Form “C” Relay for door control
- Configurable for: Lock Time, Auto Unlock by time
- 8 Access Groups configurable per credential
- Same small footprint as Keri’s Intelliprox Blue™ and sharing the same enclosure
- CE, FCC, RCM, CE-Red and IC certifications

Note:
The minimum supported revision of Doors.NET/Visual Doors is v4.3.5

Keri’s Neutron Controller is a small, low cost, single-door controller. Up to 8 Neutron mini-controllers may be attached to a RS-485 network, originating at a PC or Keri appliance, to control 8 doors with the option of using both in/out readers.

Neutron has been designed with low cost and small physical size in mind, yet maintains a powerful feature set, nearly equal to Keri’s NXT controllers. In fact, Neutron runs on the Visual Doors version of Keri’s Door.NET software and maintains a 1000 credential capacity and a 4,000 event buffer (offline).

The Neutron controller is designed to work with Keri’s NXT readers in both 125kHz and 13.56MHz. Traditional 125 kHz Wiegand readers and keypads are not supported. Supplied inputs and relay outputs are fixed to supporting REX (Request to Exit), DPS (Door Position Switch) and door relay.
**SPECIFICATIONS:**

Small Enclosure Size: 2.75” H x 4.25” W x 1.32” D

Full Kit Enclosure Size: 7.25” H x 6.6” W x 1.8” D

PC Board, No Enclosure Size: 2.36” H x 4.0” W x 0.78” D

Input Voltage: +12 VDC nom. (9-15 VDC)

Current Draw: NEUT Controller - 500mA-

Inputs (2): Door Contact Switch Request to Exit

Outputs: 1.0 amp (24 VDC max.) dry circuit

Reader Capacity: 2 using NXT Readers*
* NXT 3R or 5R
* NXT 3RE or 5RE

Buffer Capacity: 4,000 offline

Temperature / Humidity: -40°F to 140°F (-40°C to 60°C)

Communication: RS-485 (A minimum of one Neutron Communication Cable Kit is required per installation.)

Lithium Battery: 5 years Memory Retention

*Note: The minimum supported revision of Doors.NET/Visual Doors is v4.3.5

**ORDERING INFORMATION:**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEUT-3R-APLKIT</td>
<td>Neutron Controller with both enclosures, (1) PSC-35 1.8A power supply, (1) i2 Mini-Appliance, (1) Windows® keyboard &amp; mouse, (1) Communication Cable Kit, (1) NXT-3R Reader, (3) NXT-C Prox Cards, and (2) NXT-AP Patches</td>
</tr>
<tr>
<td>NEUT-5R-APLKIT</td>
<td>Neutron Controller with both enclosures, (1) PSC-35 1.8A power supply, (1) i2 Mini-Appliance, (1) Windows® keyboard &amp; mouse, (1) Communication Cable Kit, (1) NXT-5R Reader, (3) NXT-C Prox Cards, and (2) NXT-AP Patches</td>
</tr>
<tr>
<td>NEUT-3R-KIT</td>
<td>Neutron Kit with both enclosures, (1) NXT-3R reader, (1) PSC-35 1.8A power supply, (3) NXT-C &amp; (2) NXT-AP</td>
</tr>
<tr>
<td>NEUT-5R-KIT</td>
<td>Neutron Kit with both enclosures, (1) NXT-5R reader, (1) PSC-35 1.8A power supply, (3) NXT-C &amp; (2) NXT-AP</td>
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<tr>
<td>NEUT-SOLO</td>
<td>Neutron Controller Board only. In small enclosure, DIN-Rail mountable</td>
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<tr>
<td>NEUT-EU-KIT</td>
<td>Same as 3-R Full kit (above) w/European power supply</td>
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<tr>
<td>NEUT-CBL-KIT</td>
<td>RS-485 Communication Cable Kit, PC to first Neutron board</td>
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**RELATED PRODUCTS:**

<table>
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<tr>
<td>NXT-3R</td>
<td>Mullion Mount NXT Proximity Reader for NXT Controllers, access/entry version</td>
</tr>
<tr>
<td>NXT-3RE</td>
<td>Mullion Mount NXT Proximity Reader for NXT Controllers, exit/egress version</td>
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<tr>
<td>NXT-5R</td>
<td>Wall Mount NXT Proximity Reader for NXT Controllers, access/entry version</td>
</tr>
<tr>
<td>NXT-5RE</td>
<td>Wall Mount NXT Proximity Reader for NXT Controllers, exit/egress version</td>
</tr>
</tbody>
</table>

**PRESENTED BY:**

Keri Systems Incorporated

www.kerisys.com

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