Overview

The Schlage® NDE wireless cylindrical lock is designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings. And now Schlage offers the NDE wireless lock with a mobile enabled option that gives users the security and convenience of using a smart device to gain access.

NDE wireless locks simplify installation by combining the lock, credential reader, door position sensor and request-to-exit switch all in one unit. NDE wireless locks require only minor modifications to existing mechanical Schlage ND cylindrical door prep; and eliminate the need to install additional components or run wires to each opening.

The new NDEB mobile enabled wireless lock also has an interior push button with indication that expands the way the lock operates to include storeroom, office, privacy and apartment functions.

NDE wireless locks can be set up and configured wirelessly with a connected smartphone or tablet - no proprietary device needed. With the ENGAGE™ cloud-based web and mobile apps, it’s easy to configure lock settings, add users, and view audits and alerts from virtually anywhere. And using the built-in Wi-Fi®, automated daily updates to lock configuration and user access rights are possible.

The open architecture design allows for advanced capabilities including networked real-time communication. Using the ENGAGE Gateway and an integrated solution from one of our physical access control software (PACS) providers, Schlage offers organizations the freedom to use the solution of their choice.

The NDE is ideal for office and suite entries, conference rooms, common area doors, resident units, and sensitive storage areas with cylindrical door prep. NDE suites with all Schlage ND levers and keyways, and most finishes, providing attractive options to meet the requirements of nearly any environment.

Features and benefits

- New NDEB option is ready for the future with the ability to read Bluetooth and NFC mobile credentials
  - Supports Mobile Student IDs in Apple Wallet (NDE and NDEB)
- NDEB includes interior push button with indication for storeroom, office, privacy, and apartment applications
- Wireless configuration from connected smartphones and tablets
- Built-in Wi-Fi® enables automated daily updates sent directly from host software
- Networked real-time communication available with the ENGAGE Gateway and PACS provider solutions
- Designed to be easy to install, connect, manage, and use
- Fits mechanical ND door prep with minor modifications
- Weather resistant design for use on perimeter doors
- Lever handing is field reversible in seconds; no tools required
- Up to 2 years of battery life

CYBERSECURITY
Learn about Allegion's commitment
### NDE wireless lock specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Users</strong></td>
<td>Up to 5,000¹</td>
</tr>
<tr>
<td><strong>Audits</strong></td>
<td>Up to 2,000²</td>
</tr>
<tr>
<td><strong>Credential verification time</strong></td>
<td>Smart and proximity: ≤ 1 second</td>
</tr>
<tr>
<td></td>
<td>Mobile: mobile device dependent</td>
</tr>
<tr>
<td><strong>Visual communications</strong></td>
<td>LED (red, amber, green)</td>
</tr>
<tr>
<td><strong>Audible communications</strong></td>
<td>Audible indicator (field configurable)</td>
</tr>
<tr>
<td><strong>Communication standards</strong></td>
<td>- 2.4 GHz Wi-Fi® (IEEE 802.11b/g/n)</td>
</tr>
<tr>
<td></td>
<td>- WPA2, WPA, WEP, 802.1x</td>
</tr>
<tr>
<td></td>
<td>- Bluetooth® low energy (version 4.2)</td>
</tr>
<tr>
<td></td>
<td>- Transport Layer Security (TLS) version 1.2</td>
</tr>
<tr>
<td></td>
<td>- Advanced Encryption Standard (AES), 256-bit</td>
</tr>
<tr>
<td><strong>Gateway communication range</strong></td>
<td>Up to 30’ in typical building environments. A detailed site survey is recommended using the ENGAGE Test Kit (TKE). Reference ENGAGE™ Gateway Data Sheet for additional detail.</td>
</tr>
<tr>
<td><strong>Wake-Up on Radio</strong></td>
<td>Responds to command from host in less than 5 seconds when linked to ENGAGE Gateway (requires PACS provider system)</td>
</tr>
<tr>
<td><strong>Data rate</strong></td>
<td>54 Mbps via Wi-Fi</td>
</tr>
<tr>
<td><strong>Connectivity options</strong></td>
<td>Mobile device (send updates at the lock)</td>
</tr>
<tr>
<td></td>
<td>Wi-Fi access point (automatic daily updates⁵)</td>
</tr>
<tr>
<td></td>
<td>No-Tour with MT20W enrollment reader and smart credentials</td>
</tr>
<tr>
<td></td>
<td>ENGAGE Gateway (real-time communication)</td>
</tr>
<tr>
<td></td>
<td>- RS-485 to ACP or IP to host</td>
</tr>
<tr>
<td><strong>Battery life</strong></td>
<td>Uses 4 AA batteries</td>
</tr>
<tr>
<td></td>
<td>Smart, proximity and NFC mobile: up to 2 years</td>
</tr>
<tr>
<td></td>
<td>BLE mobile: up to 1.5 years</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>Exterior: -31° to 150°F (-35° to 66°C)</td>
</tr>
<tr>
<td></td>
<td>Interior: 32° to 120°F (0° to 49°C) (battery)</td>
</tr>
<tr>
<td><strong>Operating humidity</strong></td>
<td>0 - 100% non-condensing</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>ANSI/BHMA A156.25-2013 (Indoor/Outdoor), ANSI/BHMA A156.2-2011, Series 4000, Grade 1, UL 294, UL 10C, CSA C22.2 No. 205-M1983, FCC Part 15, IC RSS-210, ADA, RoHS, ICC ANSI A117.1</td>
</tr>
</tbody>
</table>

### Functionality
- NDEB with Interior Push Button
  - Storeroom
  - Office
  - Privacy
  - Apartment
- NDE
  - Storeroom

NDEB and NDE come with Vandagrard® standard

### Available status signals
- Request-to-exit
- Door position
- Interior cover tamper⁶
- Magnetic tamper
- Battery status
- Lock/unlock status⁶
- Communication status⁵

### Flexible solutions
- NDE wireless locks offer connectivity options to fit any size budget or business.
  1. Mobile
  2. No-Tour with MT20W
  3. Wi-Fi
  4. Real-time with ENGAGE Gateway

### ENGAGE™ cloud-based web and mobile applications

The ENGAGE cloud-based web and mobile applications deliver simple and convenient site set-up with basic access management for users and locks. Please refer to the ENGAGE data sheet for additional detail.

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¹ Maximum database storage capacity of lock. Can vary by access control software database capacity.
² Maximum audit storage capacity of lock. Can vary by access control software audit storage capacity.
³ Response time does not include latency time of host when linked with an ENGAGE Gateway or when using No-Tour.
⁴ Assuming indoor application, default settings, 80 actuations, interior LED disabled and one Wi-Fi update per day.
⁵ Consult your access control software provider for specific scope of support.
⁶ Software indicates lock/unlock status based on sequence of events.
⁷ When using the ENGAGE cloud-based access management software.
Mechanical specifications

**Chassis**
- Cylindrical

**Handing**
- Right-handed from factory. Field reversible in seconds (no tools required)

**ANSI standard (Meets or exceeds)**
- ANSI/BHMA A156.25-2013 (Indoor/Outdoor)
- ANSI/BHMA A156.2-2011, Series 4000, Grade 1

**Door thickness**
- Standard: 1 5/8" - 2" (41mm - 51mm) only

**Backset**
- Standard: 2 1/4" (70mm)
- Optional: 2 1/2" (60mm)

**Latch bolt**
- Standard: 1/2" (12mm) throw deadlatch (steel)
- Optional: 1/2" (19mm) throw anti-friction deadlatch available for pairs of fire doors

**Levers**
- Pressure cast zinc, plated

**Strike**
- Standard: 1 1/2" lip, ANSI, DPS, 1/4" x 4"
- Optional: Additional strikes, lip lengths and ANSI strike box available

**Cylinder and keys**
- Standard: Schlage 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys. Additional keying options available, including interchangeable cores, competitor brands, master keying and grand master keying

### Compatible cylinders

<table>
<thead>
<tr>
<th>Schlage key systems</th>
<th>Conventional key-in-lever cylinder</th>
<th>Full size interchangeable core</th>
<th>Small format interchangeable core</th>
</tr>
</thead>
<tbody>
<tr>
<td>With cylinder</td>
<td>PD, ZD</td>
<td>RD</td>
<td>GD</td>
</tr>
<tr>
<td>Construction Core</td>
<td>----</td>
<td>T</td>
<td>HD</td>
</tr>
<tr>
<td>Disposable Core</td>
<td>----</td>
<td>----</td>
<td>BDC</td>
</tr>
<tr>
<td>Less Cylinder</td>
<td>LD</td>
<td>JD</td>
<td>BD</td>
</tr>
</tbody>
</table>

Compatible cylinders listed above are supported on all levers.

**Sargent - Less Cylinder**
- LD SAR
- JD SAR

**Corbin - Less Cylinder**
- LD CO6
- JD CO6, JD CO7

**Yale - Less cylinder**
- ----
- JD YA6, JD YA7

**Medeco - Less cylinder**
- ----
- JD MED

Six-pin competitive cylinders listed above are supported on ATH, SPA, RHO, and TLR levers. Seven-pin competitive cylinders listed above are supported on RHO levers.

### Multi-technology reader specifications

**Credential technologies**
- Proximity (125 kHz), Smart (13.56 MHz), Bluetooth Low Energy (BLE) (2.4 GHz), and Near Field Communication (NFC)

**Standards**
- ISO standard 15693 and ISO 14443

**Maximum read range**
- Proximity: up to 1.25' (3.8m)
- Smart: up to .75' (2.2m)
- Bluetooth Low Energy: up to 15'
- NFC: mobile device dependent

**Proximity credential compatibility**
- **Compatibility**: Schlage®, ISONAS™, HID®, GE/CASI ProxLite®, AWID® and LenelProx®

**Schlage credential style formats**: Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk

**Smart credential compatibility**
- **Secure sector compatibility**: Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 with PACSA
- **CSN only compatibility**: DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1, ST Microelectronics®, Texas Instruments Tag-it®, Phillips I-Code®

**Schlage credential style formats**: Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch

**Mobile credential compatibility**
- Schlage Mobile Access Credential with Bluetooth®, Integrated PACS mobile credential with Bluetooth®, NFC-enabled mobile devices

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1. No-Tour applications require a 1K Byte Schlage MIFARE smart credential
2. Supported through ENGAGE
3. Dependent on PACS provider capabilities. Visit us.allegion.com/alliances for more information
4. See minimum supported guidelines

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NDE to NDEB Retrofit Kit

Retrofit kits are available allowing the upgrade of existing NDE locks to the NDEB model, adding mobile enabled functionality and new functions supported by an interior push button with indication.

- Kit includes: Interior escutcheon with PCBA and DPS with lead (requires modified door prep)*
- Kit requires reuse of exterior of lock, lock chassis, existing levers/spring cages, battery cover, mounting screws and interior mounting plate.

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Schlage • NDE
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## Ordering information

### NDEB - PD - SPA - 626

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever cylinder type</th>
<th>Outside</th>
<th>Inside</th>
<th>Backset and latch</th>
<th>Strike</th>
<th>Dim</th>
<th>Additional details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Series</td>
<td>3/5 Lever style</td>
<td>Finish</td>
<td>Finish</td>
<td>Backset and latch</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>NDEB</td>
<td>Schlage Mobile enabled cylindrical</td>
<td>ATH Athens*</td>
<td>626 Satin chrome</td>
<td>13-247 2 3/4&quot; backset, deadlatch, square corner, 1 1/2&quot; x 2 1/4&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NDE80</td>
<td>Cylindrical (storeroom)</td>
<td>BRK Boardwalk*</td>
<td>605 Bright brass</td>
<td>See price book for additional backset and latch options</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BRW Broadway*</td>
<td>606 Satin brass</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>LAT Latitude</td>
<td>612 Satin bronze</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>LON Longitude</td>
<td>619 Satin nickel</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>OME Omega</td>
<td>622 Matte black</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RHO Rhodes*</td>
<td>625 Bright chrome</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SPA Sparta*</td>
<td>643e Aged bronze</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>TLR Tubular*</td>
<td>626AM Satin chrome antimicrobial</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Standards options are indicated in bold. See price book for specific configuration options.

### Lever styles

The NDE shares the same levers as ND. All NDE locks feature mechanical key override; standard, SFIC or FSIC options available.

- **Athens**
- **Boardwalk**
- **Broadway**
- **Latitude**
- **Longitude**
- **Omega**
- **Rhodes**
- **Sparta**
- **Tubular**

### Finishes

#### Warm tone finishes
- 605 Bright brass
- 606 Satin brass
- 612 Satin bronze
- 643e Aged bronze

#### Cool tone finishes
- 619 Satin nickel
- 622 Matte black
- 625 Bright chrome
- 626 Satin chrome
- 626AM Satin chrome with antimicrobial

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