Overview

The Schlage® NDE wireless cylindrical lock with ENGAGE™ technology is designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings. Whether commercial real estate, K-12, higher education, assisted living, medical offices, or multi-family, nearly any facility can benefit from the enhanced security, efficiency, and convenience of upgrading to electronic credentials.

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 utilize standard ND cylindrical door prep and can be installed in minutes with only a Phillips screwdriver; no need to install additional components, drill holes or run wires to each opening. NDE suites with the most popular Schlage ND levers, keyways, and finishes, providing attractive options to meet the requirements of nearly any facility. NDE is ideal for office and suite entries, conference rooms, common area doors, resident units, and sensitive storage areas with a cylindrical door prep.

Built-in Bluetooth® enables NDE wireless locks to connect directly to smart phones and tablets; no need for a proprietary handheld device for set-up and configuration. And with built-in Wi-Fi, NDE locks can connect directly to an existing Wi-Fi network enabling automatic updates to lock configuration and user access. With the ENGAGE cloud-based web and mobile apps, it’s easy to configure lock settings, add users, and view audits and alerts from anywhere.

For advanced capabilities including networked real-time communication with the ENGAGE™ Gateway, NDE wireless locks can be managed with software from one of our access control alliance members. For additional details, please refer to the NDE Integrations found in the Alliances menu on our website at us.allegion.com.

NDE wireless locks are compatible with most proximity and smart cards including aptiQ™ and aptiQmobile™.

Features and benefits

- Designed to be easy to install, connect, manage, and use
- Fits mechanical ND door prep with no additional holes
- Installs in minutes with only a Phillips screwdriver
- Weather resistant design for use on perimeter doors
- Lever handing is field reversible in seconds; no tools required
- Innovative integrated door position sensor requires no additional door prep
- Built-in Bluetooth® enables wireless configuration from smart phones and tablets
- Built-in Wi-Fi® enables automatic daily updates sent directly from host software
- Enables networked real-time communication with the ENGAGE Gateway and software alliances
- Up to 2 years of battery life
- Compatible with major brands of key systems
- ANSI/BHMA A156.25 (Indoor/Outdoor), ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)
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

NDE wireless lock specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users</td>
<td>Up to 5,0001</td>
</tr>
<tr>
<td>Audits</td>
<td>Up to 2,0002</td>
</tr>
<tr>
<td>Credential verification time</td>
<td>≤ 1 second 3</td>
</tr>
<tr>
<td>Visual communications</td>
<td>LED (red, amber, green)</td>
</tr>
<tr>
<td>Audible communications</td>
<td>Audible indicator (field configurable)</td>
</tr>
<tr>
<td>Communication standards</td>
<td>§ 2.4 GHz Wi-Fi® (IEEE 802.11b/g)</td>
</tr>
<tr>
<td></td>
<td>§ WPA2, WPA, WEP, 802.1x</td>
</tr>
<tr>
<td></td>
<td>§ Bluetooth low energy (version 4.0)</td>
</tr>
<tr>
<td></td>
<td>§ Transport Layer Security (TLS) version 1.0</td>
</tr>
<tr>
<td></td>
<td>§ Advanced Encryption Standard (AES), 256-bit</td>
</tr>
<tr>
<td>Communication range</td>
<td>Up to 100 ft.</td>
</tr>
<tr>
<td>Wake-Up on Radio</td>
<td>Responds to command from host in less than 5 seconds when linked to ENGAGE Gateway (requires alliance member software)</td>
</tr>
<tr>
<td>Data rate</td>
<td>24 Mbps via Wi-Fi</td>
</tr>
<tr>
<td>Connectivity options</td>
<td>§ Mobile (send updates at the lock)</td>
</tr>
<tr>
<td></td>
<td>§ Wi-Fi access point (automatic daily updates 5)</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>Battery life</td>
<td>Up to 2 yrs with 4 AA batteries 4</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>Exterior: -31°F to 151°F (-35°F to 66°C)</td>
</tr>
<tr>
<td></td>
<td>Interior: 32°F to 120°F (0°F to 49°C) (battery)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>0 - 100% non-condensing</td>
</tr>
<tr>
<td>Certifications</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>

Available status signals

- Storeroom with Vandigard®
- Request-to-exit
- Door position
- Interior cover tamper 5
- Magnetic tamper
- Battery status
- Lock/unlock status 6
- Communication status 5

Flexible solutions
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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.

1 Maximum database storage capacity of lock. Can vary upon access control software database capacity when linked with an ENGAGE Gateway RS-485 to ACP.
2 Maximum audit storage capacity of lock. Can vary upon access control software audit storage capacity when linked with an ENGAGE Gateway RS-485 to ACP.
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, 13.56 MHz CSN credential, 100 actuations 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.
### Benefits of NDE multi-technology readers:

- Reads both proximity (125 kHz) and smart (13.56 MHz) technologies with single device
- NDE multi-technology readers are NFC compatible\(^1\) and enable use with aptiQmobile credentials
- Allows end user to migrate to more secure credentials over time and as budgets permit

\(^{1}\) Please refer to aptiQmobile compatibility chart for a list of certified devices

\(^{2}\) No-tour functionality requires minimum 1k byte/8k bit Allegion smart credential and MT20W enrollment reader

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### Mechanical specifications

<table>
<thead>
<tr>
<th>Chassis</th>
<th>Cylindrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handing</td>
<td>Right-handed from factory. Field reversible in seconds (no tools required)</td>
</tr>
</tbody>
</table>
| 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 3/4” (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 1/8” lip, ANSI, DPS, 1/2” x 4”  
Optional: Additional strikes, lip lengths and ANSI strike box available |
| Cylinder and keys | Standard: Schlage 6-pin Everest 29 S123 keyway cylinder with two patented keys. Additional keying options available, including standard and interchangeable cores, competitor brands, master keying and grand master keying |

### Cylinder options (How to order)

<table>
<thead>
<tr>
<th>Cylinder</th>
<th>Order Suffix</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD SAR</td>
<td>Sargent®</td>
<td>Key-in-Lever</td>
</tr>
<tr>
<td>JD SAR</td>
<td>Sargent Full Size Interchangeable Core 6-pin Cylinder</td>
<td></td>
</tr>
<tr>
<td>JD C06</td>
<td>Corbin Russwin Full Size Interchangeable Core 6-pin Cylinder</td>
<td></td>
</tr>
<tr>
<td>JD YA6</td>
<td>Yale Full Size Interchangeable Core 6-pin Cylinder</td>
<td></td>
</tr>
</tbody>
</table>

### Cylinder options

- **Key-in-lever cylinder**
- **Full size interchangeable core**
- **Small format interchangeable core**

### Schlage key systems

- **Primus XP**
- **Everest 29**
- **Classic**

### Other key systems

- **Sargent\(^a\)**
- **Corbin Russwin\(^h\)**
- **Yale\(^e\)**

### Multi-technology reader specification

- **Frequency**: 125 kHz proximity and 13.56 MHz smart credential
- **Standards**: ISO standard 15693 and ISO 14443
- **Maximum read range**: Up to 1.25” on 125 kHz proximity,  
up to 0.75” on 13.56 MHz smart credential
- **125 kHz proximity credential compatibility**
  - **Compatibility**: Schlage\(^c\)  
  - XceedID\(^c\)  
  - HID\(^c\)  
  - GE/CASI ProxLite\(^c\)  
  - AWID\(^c\) and LenelProx\(^c\)  
  - **XceedID credential style formats**: Clamshell, ISO card, ISO card with magnetic stripe, keyfob and PVC disk (7000 Series)
- **13.56 MHz smart credential compatibility**\(^2\)
  - **Secure sector compatibility**: Schlage MIFARE\(^e\)  
  - aptiQ\(^e\) MIFARE Classic, XceedID, aptiQ MIFARE DESFire\(^e\) Evi with PACSA,  
  - aptiQmobile\(^e\)  
  - **CSN only compatibility**: DESFire, HID iClass\(^c\)  
  - Inside Contactless Pico Tag\(^c\), MIFARE, MIFARE DESFire Evi, ST Microelectronics\(^c\),  
  - Texas Instruments Tag-It\(^c\), Phillips I-Code\(^c\)  
  - **aptiQ credential style formats**: Clamshell, ISO card, ISO card with magnetic stripe, keyfob, mobile, PVC disk (8000 Series) and PVC patch (9000 Series)

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\(^{1}\) Please refer to aptiQmobile compatibility chart for a list of certified devices

\(^{2}\) No-tour functionality requires minimum 1k byte/8k bit Allegion smart credential and MT20W enrollment reader

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## Ordering Information

<table>
<thead>
<tr>
<th>Series</th>
<th>Function</th>
<th>Lever Cylinder Type</th>
<th>Outside Lever Style</th>
<th>Outside Finish</th>
<th>Inside Lever Style</th>
<th>Inside Finish</th>
<th>Backset and Latch</th>
<th>Strike</th>
<th>Dim</th>
<th>Additional Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>3/4/6 Lever Style</td>
<td>SPA</td>
<td>Matte black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td>RHO</td>
<td>Satin brass</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>ATH</td>
<td>Satin nickel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td>Satin chrome</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>7</td>
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</tr>
<tr>
<td>8</td>
<td></td>
<td>Backset and Latch</td>
<td>80</td>
<td>Satin chrome</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>Strike</td>
<td>130</td>
<td>Bright brass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>Dim (strike lip length)</td>
<td>138</td>
<td>Matte black</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>Additional Details</td>
<td>S123</td>
<td>Bright chrome</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Selections correspond with the numbers above**

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

- **8 Backset and Latch**
  - 80 - PD - SPA - 626
  - 2½" backset, deadlatch, square corner, 1 ¼" x 2 ½"
  - See price book for additional backset and latch options

- **9 Strike**
  - 130 - 1½" lip, ANSI, DPS, no box, 1 ¼" x 4 ½"
  - See price book for other available strikes

- **10 Dim (strike lip length)**
  - 138 - 1½" non-standard lip length
  - Enter only for non-standard strike lip lengths. See price book for other available non-standard lengths

- **11 Additional details**
  - S123 - Everest 29
  - See price book for other available keyway options including master keying

### Lever Styles

- Standard cylinders shown, SFIC and FSIC also available.
- Sparta
- Rhodes
- Athens

### 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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**About Allegion**

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit [www.allegion.com](http://www.allegion.com).

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