IN Series
IN120 WiFi & IN220 PoE

Intelligent IP-Enabled Access Control

Available through Authorized Channel Partners only.

Contact your local ASSA ABLOY Door Security Solutions sales consultant for details.
IN Series
Intelligent IP-Enabled Access Control

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Overview
The SARGENT IN Series brings you the next generation of IP-enabled access
control in a sleek, minimalist design. With both WiFi and Power over Ethernet
options, you can leverage your IT infrastructure to deliver advanced access
control to more locations, with the flexibility and security of HID®
multiCLASS SE® technology.

About ASSA ABLOY’s Authorized Channel Partner
and Certified Integrator Programs
The SARGENT IN120 and IN220 are part of a stream of new ASSA ABLOY
products that integrate with a facility’s access control system. These exciting
new technology-rich products require an increase in knowledge to ensure the
correct selection and implementation in various environments.
To aid our customers in this area, ASSA ABLOY has created two programs
that provide the necessary training to sell, order, install and service our
technology products, including Aperio wireless, Integrated Wiegand,
IP-enabled and self-configurable intelligent components:

- The Authorized Channel Partner (ACP) program is open to
  resellers, who sell ASSA ABLOY’s technology products to
certified integrators and help with product selection based
on the application.

- The Certified Integrator (CI) program provides hands-on
  training for security systems integrators and network
  administrators.

Not only does this training familiarize certified integrator candidates with
product features and applications, it also gives them valuable experience
installing, commissioning and troubleshooting the products in a real-world
environment.

For more information on the qualifications for becoming an ACP or CI,
contact your local ASSA ABLOY Door Security Solutions sales consultant.
## IN Series
Intelligent IP-Enabled Access Control

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
<th>IN120 WiFi Lock</th>
<th>IN220 PoE Lock</th>
</tr>
</thead>
</table>
| Utilizes IEEE 802.3af PoE-enabled network infrastructure for both power and data | - Streamlines the installation process, reducing costs  
- Eliminates the need for any proprietary equipment  
- Enables real-time communication |                 | ✓              |
| Utilizes IEEE 802.11 WiFi infrastructure                                | - Significantly reduces installation costs  
- Eliminates the need for any proprietary equipment  
- Ideal for hard-to-wire locations |                   | ✓              |
| Field-upgradable 802.11b/g/n radio                                      | - Interoperability with other WiFi equipment  
- Future proof for constantly evolving WiFi standards |                   | ✓              |
| multiCLASS SE® Technology from HID Global®                              | - Provides heightened security  
- Supports:  
  - Multiple credential types  
  - HID Mobile Access® powered by Seos®, for iOS® and Android™ devices” |                   | ✓              |
| Field selectable communication frequency                                | - Allows you to balance security requirements with battery life |                   | ✓              |
| Reduced energy consumption and product sustainability measures          | - Uses significantly less power consumption in standby mode than traditional access control  
- Leverages existing network infrastructure  
- Streamlined system architecture provides improved reliability and reduces materials |                   | ✓              |
| Customizable feature set                                                | - Select only the features you need  
- Easily add features as your requirements grow |                   | ✓              |
| Intelligence built into lock for local decision making*                 | - Lock operates regardless of network status  
- Supports up to 2,400/10,000 users**  
- Provides a 10,000 event transaction history/audit trail |                   | ✓              |
| Privacy button                                                          | - Enables shelter in place/local lockdown  
- Offers privacy capabilities for applications such as restrooms |                   | ✓              |
| Integrated ANSI/BHMA Grade 1 hardware, available in cylindrical lock, mortise lock, end exit device configurations | - Flexibility to support various openings  
- Assurance of high quality SARGENT hardware |                   | ✓              |
| Superior aesthetics                                                    | - Blends into any environment seamlessly  
- Designed to meet the requirements of designers and architects  
- Available with a wide range of finishes and decorative levers  
- Suites with other IN Series locks, regardless of technology |                   | ✓              |

* Requires backup power for IN220

** Contact your access control system manufacturer for more information
IN Series
Intelligent IP-Enabled Access Control

Credential Support:
Featuring HID® multiCLASS SE® technology, IN Series IP-enabled locks support the following credentials:
- 2.4 GHz credentials:
  - Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
- 13.56 MHz credentials:
  - iCLASS®
  - iCLASS SE® (SIO-enabled)
  - iCLASS® Seos®
  - iCLASS on MIFARE® Classic
  - iCLASS on MIFARE DESfire® EV1
  - MIFARE Classic
  - DESfire EV1
  - NFC-enabled mobile phones
- 125 kHz credentials:
  - HID Prox®

Security:
- AES 128-bit encryption (IN120, IN220)
- IN120 supports current WiFi network security standards, including:
  - WEP, WPA and WPA2
  - 802.1x
- For specific security information, please contact your local ASSA ABLOY Door Security Solutions sales representative or call 800-810-Wire.

Software:
- Works with ASSA ABLOY IP-Enabled Access Control Partner software, allowing simple integration into existing or new systems
- Software Development Kits (SDK) and support available to integrate into other third party access control systems.
  Email: OEMSupport_Group@assaabloy.com for assistance.

Technical Specifications
IN120
- Compatible with 802.11b/g/n wireless networks
IN220
- Conforms to IEEE 802.3af Class 1 standard, requiring less than 3.84 watts

EAC Regulatory Compliance:
- UL294 6th Edition
- CAN/ULC S319
- BHMA A156.25

Battery Life in Months*

<table>
<thead>
<tr>
<th>Accesses Per Day</th>
<th>Comm Sessions Per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td>4</td>
</tr>
<tr>
<td>60</td>
<td>6</td>
</tr>
</tbody>
</table>

*Battery life data was calculated using Duracell batteries.
PoE (Power Over Ethernet) System Configuration

Electronic Access Control System

- Ethernet
- PoE-Enabled Ethernet
- PoE-compatible Ethernet Hinge
- Network cable through raceway

WiFi System Configuration

Electronic Access Control System

- Internal Building Network
- WiFi Access Point (IEEE 802.11b/g/n)

ASSA ABLOY, the global leader in door opening solutions
IN Series
Intelligent IP-Enabled Access Control

7900 Series Mortise Locks

Mechanical Features
- Certified to ANSI/BHMA A156.13 Series 1000 Grade 1
- UL/ULC Listed for fire doors*
- Motor driven 7900 Series Mortise Lock
- 3/4” projection stainless steel latchbolt, one-piece construction
- Steel deadbolt assembly with 13 gauge hardened steel insert, 1” (25mm) projection

For 1-3/4” (44mm) thick door standard. Consult factory for additional thicknesses
- Stainless steel non-handed deadlocking latch
- Not available with SC- or SE- options
- Handing easily field reversible without disassembling lock body
- Lever trim through-bolted for increased security and durability

Shipping Weight: Approx. 11 lbs.

IN Series Mortise Lock Functions
- Key outside always retracts latch
- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch and deadbolt (if present)
- Guardbolt deadlocks latch

Key override available with #41 cylinder supplied
- Low battery (for IN120), request-to-exit (REX) and tamper signaling standard
- EcoFlex™ technology offers improved battery life for IN120 mortise locks

52-5373 Door Position Switch (DPS)
Supplied with IN Series mortise locks
- SPST concealed switch (2-wire)
- 3/8” Diameter for wood door
- 3/4” Diameter for metal door
- Metal door adapter included

Note: The DPS is installed right above the lock faceplate and connects directly into the lock’s electronics

* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
IN Series
Intelligent IP-Enabled Access Control

Select from the following options to order IN Series mortise locks:

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rose</th>
<th>Lever</th>
<th>Finish</th>
<th>Handing</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>WiFi</td>
<td>IP</td>
<td>B</td>
<td>E2</td>
<td></td>
<td>03</td>
<td>LH</td>
</tr>
<tr>
<td>220</td>
<td>PoE</td>
<td>BIP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7976</td>
<td>Key override and deadbolt</td>
<td>IPS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7978</td>
<td>Key override and no deadbolt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7977</td>
<td>Deadbolt and no key override</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7979</td>
<td>No deadbolt and no key override</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reader
- B: Black reader, black trim
- W: White reader, white trim
- MB: Black reader, metal trim
- MW: White reader, metal trim

Rose
- LN: 2-1/8" (52.39mm)
- O: 2-3/4" (69.85mm)
- E2: 2-3/4" (69.85mm)
- E3: 2-11/16" (68.26mm)
- E4: 2-1/16" (52.39mm)

Lever
The levers shown here are some of our most popular styles from the Studio Collection. To see the complete range of available levers, please refer to pages 19-21.

Finish
- 03: Bright brass (ANSI 605)
- 04: Satin brass (ANSI 606)
- 09: Bright bronze (ANSI 611)
- 10: Satin bronze, clear powder (ANSI 612)
- 10B: Oxidized satin bronze oil rubbed (ANSI 613)
- 10BE: Dark oxidized satin bronze — equivalent
- 10BL: Oxidized satin bronze, clear powder coat

Handing
- LH: Left hand
- LHR: Left hand reverse
- RH: Right hand
- RHR: Right hand reverse

Build Your Order String

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rose</th>
<th>Lever</th>
<th>Finish</th>
<th>Handing</th>
</tr>
</thead>
</table>

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

¹1KA square cylinder collar and 130KA square backplate automatically supplied with E2, E3 and E4 roses.
²Lever returns within ¾” (19 mm) of door face.
³Grannary levers are customized. See page 18 for ordering information.
IN Series
Intelligent IP-Enabled Access Control

8200 Series Mortise Locks

Mechanical Features

- Certified to ANSI/BHMA A156.13 Series 1000 Operational Grade 1 and Security Grade 1
- UL/ULC Listed for fire doors*
- FCC certified
- Windstorm and Florida Building Code information is listed on page 16
- Motor driven 8200 Series Mortise Lock
- 3/4” stainless steel, anti-friction reversible latch

Shipping Weight: Approx. 11 lbs.

IN Series Mortise Lock Functions

- Key outside always retracts latch
- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch and deadbolt (if present)
- Guardbolt deadlocks latch
- Key override available with #41 cylinder supplied
- Low battery (for IN120), request-to-exit (REX), latch, guardbolt and tamper signaling standard

* Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

The IN120/IN220 8200 mortise lock with deadbolt is required for escape return functionality (a residential requirement in Canada). No other IN120/IN220 locks will support this requirement.
IN Series
Intelligent IP-Enabled Access Control

Select from the following options to order IN Series mortise locks:

**Technology**
- **120** WiFi
- **220** PoE

**Function**
- **82276** Key override and deadbolt*
- **82277** Deadbolt and no key override*
- **82278** Key override and no deadbolt
- **82279** No deadbolt and no key override

**Credentials**
- **IIP** All credentials supported by the IP option plus MIFARE Classic and DESFire EV1
- **IPS** IIP HID iCLASS®, HID iCLASS SE®, Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, NFC-enabled mobile phones
- **IP** IP option plus MIFARE Classic and DESFire EV1
- **CP** FeliCa, HID Prox®, NFC-enabled mobile phones
- **BIP** BIP option plus MIFARE Classic and DESFire EV1
- **BIPS** All credentials supported by the BIP option plus MIFARE Classic and DESFire EV1
- **BCP** FeliCa, HID Prox®, NFC-enabled mobile phones, Bluetooth Smart-enabled mobile phones

**Reader**
- **B** Black reader, black trim
- **W** White reader, white trim
- **MB** Black reader, metal trim
- **MW** White reader, metal trim

**Rose**
- **LN** Bright brass (ANSI 605)
- **04** Satin brass (ANSI 606)
- **09** Bright bronze (ANSI 611)
- **10** Satin bronze, clear powder (ANSI 612)
- **10B** Oxidized satin bronze oil rubbed (ANSI 613)
- **10BE** Dark oxidized satin bronze — equivalent
- **10BL** Oxidized satin bronze, clear powder coat

**Finish**
- **03** Bright nickel, clear coated (ANSI 618)
- **14** Satin nickel, clear coated (ANSI 619)
- **26** Bright chrome (ANSI 625)
- **26D** Satin chrome (ANSI 626)
- 2-11/16” (68.26mm)
- **32** Bright stainless steel (ANSI 629)*
- **32D** Satin stainless steel (ANSI 630)*

**Handing**
- **LH** Left hand
- **LHR** Left hand reverse
- **RH** Right hand
- **RHR** Right hand reverse

**Build Your Order String**

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rose</th>
<th>Lever</th>
<th>Finish</th>
<th>Handing</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN</td>
<td>8 2 2 7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

* Deadbolt required for escape return functionality (a residential requirement in Canada)

Note: Metal trim for the reader is supplied in the finish specified in the order string. It is not available in stainless steel (32/32D), but will be plated to match.

Suites with reader

Metal reader trim (MB and MW) plated to match

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

¹1KA square cylinder collar and 130KA square backplate automatically supplied with E2, E3 and E4 roses.
²Lever returns within ½” (13 mm) of door face.
³Gramercy levers are customized. See page 18 for ordering information.
IN Series
Intelligent IP-Enabled Access Control

10 Line Cylindrical Locks

Mechanical Features

- Certified ANSI/BHMA A156.2 Series 4000 Grade 1
- UL/ULC Listed for fire doors*
- Motor driven cylindrical lock
- Latch Stainless Steel, 1/2” (13mm) throw
- 2-3/4” (70mm) backset standard
- For 1-3/4” (44mm) thick door standard. Consult factory for other thicknesses
- Handing easily field reversible without disassembling lock body
- Heavy duty lever spring return
- Steel mounting studs
- Not available with 10-UL-, 82-, 83-, 84- options

Shipping Weight: Approx. 9 lbs.

IN Series Cylindrical Lock Functions

- Key outside always retracts latch
- Lever outside rigid except when valid credential presented
- Lever inside always retracts latch
- Guardbolt deadlocks latch
- Key override standard with #C10-1 cylinder supplied
- Low battery (for IN120), request-to-exit (REX) and tamper signaling standard
- Door Position Switch (DPS, P/N 52-5373) supplied

52-5373 Door Position Switch (DPS)
Supplied with IN220 cylindrical locks

- SPST concealed switch (2-wire)
- 3/8” Diameter for wood door
- 3/4” Diameter for metal door
- Metal door adapter included

Note: The DPS is installed right above the lock faceplate and connects directly into the lock’s electronics

IN220 10 Line cylindrical locks are UL Certified and Listed as part of an approved assembly¹ to the following certifications and standards:

- UL Listed per ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002
- ANSI/ASTM E1886-2005
- ASTM E1996-2009
- Testing Application Standard (TAS) 201-1994²
- Testing Application Standard (TAS) 202-1994²
- Testing Application Standard (TAS) 203-1994²
- Testing Application Standard (TAS) 204-1994²
- UL Certification Directory ZHLL R21744
- Windstorm-rated Assemblies
- Listed on Florida Building Code Website: FL6728-R1
- Listed on Florida Building Code Website: FL4351-R1

¹To meet assembly requirements, use in conjunction with doors from ASSA ABLOY Group brands CECO and CURRIES.
²Published in the “Florida Building Code”

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IN Series
Intelligent IP-Enabled Access Control

Select from the following options to order IN Series cylindrical locks:

Technology
120 WiFi
220 PoE

Function
10G77 Key override

Credentials
IP
HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, NFC-enabled mobile phones

IPS
All credentials supported by the IP option plus MIFARE Classic and DESFire EV1

CP
FeliCa, HID Prox®, NFC-enabled mobile phones

BIP
HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1 SE, HID Prox®, NFC-enabled mobile phones, Bluetooth Smart-enabled mobile phones

BIPS
All credentials supported by the BIP option plus MIFARE Classic and DESFire EV1

BCP
FeliCa, HID Prox®, NFC-enabled mobile phones, Bluetooth Smart-enabled mobile phones

Reader
B  Black reader, black trim
W  White reader, white trim
MB Black reader, metal trim
MW White reader, metal trim

Note: Metal trim is supplied in the finish specified in the order string

Rose
L

Finish
03 Bright brass (ANSI 605)
04 Satin brass (ANSI 606)
09 Bright bronze (ANSI 611)
10 Satin bronze, clear powder (ANSI 612)
10B Oxidized satin bronze oil rubbed (ANSI 613)
10BE Dark oxidized satin bronze — equivalent
10BL Oxidized satin bronze, clear powder coat
14 Bright nickel, clear coated (ANSI 618)
15 Satin nickel, clear coated (ANSI 619)
20D Dark statuary bronze, clear powder coat
26 Bright chrome (ANSI 625)
26D Satin chrome (ANSI 626)

Handing
LH  Left hand
LHR Left hand reverse
RH  Right hand
RHR Right hand reverse

Lever
B

Build Your Order String

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

* Lever returns within ½” (13 mm) of door face
IN Series
Intelligent IP-Enabled Access Control

80 Series Exit Devices

Mechanical Features
- Certified ANSI/BHMA A156.3 Grade 1
- Latch 3/4" (19mm) throw (8800: stainless steel, 8900: anti-friction brass)
- Cylinder requirements: 8800 Series uses a #34 Rim Cylinder; 8900 Series uses a #46 Mortise Cylinder (1-3/4")
- For 1-3/4" (44mm) door standard. Consult factory for other thicknesses
- Available with Studio Collection, Coastal Series and all standard levers
- UL/ULC Listed for fire doors*

Shipping Weight: Approx. 11 lbs.

IN Series Exit Device Functions
- Lever outside rigid except when in passage mode or valid user code entered
- Always allows free egress
- Request-to-Exit (REX): monitors rail position
- Low battery (for IN120), tamper signaling standard
- Door position switch (DPS, part #52-5373) supplied

*Mortise Exit
*Rim Exit

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## IN Series
### Intelligent IP-Enabled Access Control

Select from the following options to order IN Series exit devices:

<table>
<thead>
<tr>
<th>Technology</th>
<th>Credentials</th>
<th>Reader</th>
<th>Rail Size</th>
<th>ET Trim</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 WiFi</td>
<td>IP</td>
<td>B</td>
<td>E: 24 - 32*</td>
<td>ET 700 Series ET Trim</td>
</tr>
<tr>
<td>220 PoE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Function
- 8977 Mortise lock exit device, key override
- 8978 Mortise lock exit device, no key override
- 8877 Rim exit device, key override
- 8878 Rim exit device, no key override

### Credentials
- **IP**: HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones
- **IPS**: All credentials supported by the IP option plus MIFARE Classic and DESfire EV1
- **CP**: FeliCa, HID Prox®, NFC-enabled mobile phones

### Reader
- B Black reader, black trim
- W White reader, white trim
- MB Black reader, metal trim
- MW White reader, metal trim

**Note**: Metal trim for the reader is supplied in the finish specified in the order string. It is not available in stainless steel (32/32D), but will be plated to match.

### Rail Size
- E: 24 - 32*
- F: 33 - 36*
- J: 37 - 42*
- G: 43 - 48*

### ET Trim
- ET 700 Series ET Trim

### Lever

The levers shown here are some of our most popular styles from the Studio Collection. To see the complete range of available levers, please refer to pages 19-21.

<table>
<thead>
<tr>
<th>Finish</th>
<th>Handing</th>
<th>Door Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>03 Bright brass (ANSI 605)</td>
<td>LHR Left hand reverse</td>
<td>Specify in inches</td>
</tr>
<tr>
<td>04 Satin brass (ANSI 606)</td>
<td>RHR Right hand reverse</td>
<td></td>
</tr>
<tr>
<td>09 Bright bronze (ANSI 611)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Satin bronze, clear powder (ANSI 612)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10B Oxidized satin bronze oil rubbed (ANSI 613)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10BE Dark oxidized satin bronze — equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10BL Oxidized satin bronze, clear powder coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Bright nickel, clear coated (ANSI 618)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 Satin nickel, clear coated (ANSI 619)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20D Dark statutory bronze, clear powder coat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 Bright chrome (ANSI 625)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26D Satin chrome (ANSI 626)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32 Bright stainless steel (ANSI 629)*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32D Satin stainless steel (ANSI 630)*</td>
<td></td>
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</tr>
</tbody>
</table>

### Build Your Order String

<table>
<thead>
<tr>
<th>Technology</th>
<th>Function</th>
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<th>Reader</th>
<th>Rail Size</th>
<th>ET Trim</th>
<th>Lever</th>
<th>Finish</th>
<th>Handing</th>
<th>Door Width (in inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td>E</td>
<td>T</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For additional cylinder and/or mechanical options, please refer to pages 20-23. Add the desired options to the beginning of your order string.

---

1 Lever returns within ½" (13 mm) of door face.
2 Gramercy levers are customized. See page 18 for ordering information.
IN Series
Intelligent IP-Enabled Access Control

Hard Power Option (91-) for IN120

The Hard Power option (91-) is recommended for high traffic doors or openings that require online behavior. Hard powering an IN120 allows the lock to operate in an always connected mode. The IN120 allows hard powering via an input of 12 to 24V DC and draws 200mA at 12V DC in always connected mode. SARGENT offers a range of power supplies suitable for this application.

12VDC & 24VDC Power Supplies

- UL Class 2 Listed filtered and regulated supply
- Four 12V models and four 24V models available
- Integral battery charging capability keeps sealed lead acid gel/cell at full charge in case of line voltage failure (737-battery sold separately)
- Fused line voltage input with one, four, or eight DC outputs (depending on model)

ElectroLynx® hinges and harnesses required for hard-powered IN120 applications are available through McKINNEY.

52-4824 IN120 Adapter Cable

- Included with 91- prefix option IN120 units
- Compatible with ElectroLynx® system

The following are required system components ordered through McKINNEY.

52-4824 IN120 Adapter Cable

- Allows for hard powering (91-) of IN120 (required for certain monitoring features)

The following are required system components ordered through McKINNEY. Please note that one electrified hinge, one door harness assembly and one frame harness assembly are required for each PoE opening.

McKinney ElectroLynx® PoE Door Harnesses

<table>
<thead>
<tr>
<th>Door Width</th>
<th>Cable Length</th>
<th>Wood Door</th>
<th>Hollow Metal Door</th>
</tr>
</thead>
<tbody>
<tr>
<td>28&quot; to 31&quot;</td>
<td>36'</td>
<td>PoE-C300RJ</td>
<td>PoE-C300PRJ</td>
</tr>
<tr>
<td>32&quot; to 36&quot;</td>
<td>42'</td>
<td>PoE-C306RJ</td>
<td>PoE-C306PRJ</td>
</tr>
<tr>
<td>37&quot; to 42&quot;</td>
<td>48'</td>
<td>PoE-C400RJ</td>
<td>PoE-C400PRJ</td>
</tr>
<tr>
<td>43&quot; to 48&quot;</td>
<td>54'</td>
<td>PoE-C406RJ</td>
<td>PoE-C406PRJ</td>
</tr>
</tbody>
</table>

All are Cat5e, 26 AWG, Shielded, Stranded, 100 Ohm

*See the McKINNEY catalog for additional finishes and hinge types

Patent pending and/or patent www.assaabloydss.com/patents

PoE Hinges for IN220

The PoE door & frame harnesses can accommodate a variety of new (with raceway) and retrofit applications.

12VDC & 24VDC Power Supplies

- UL Class 2 Listed filtered and regulated supply
- Four 12V models and four 24V models available
- Integral battery charging capability keeps sealed lead acid gel/cell at full charge in case of line voltage failure (737-battery sold separately)
- Fused line voltage input with one, four, or eight DC outputs (depending on model)

ElectroLynx® hinges and harnesses required for hard-powered IN120 applications are available through McKINNEY.

52-4824 IN120 Adapter Cable

- Included with 91- prefix option IN120 units
- Compatible with ElectroLynx® system

The following are required system components ordered through McKINNEY.

52-4824 IN120 Adapter Cable

- Allows for hard powering (91-) of IN120 (required for certain monitoring features)

The following are required system components ordered through McKINNEY. Please note that one electrified hinge, one door harness assembly and one frame harness assembly are required for each PoE opening.

McKinney ElectroLynx® PoE Hinges*

<table>
<thead>
<tr>
<th>Description</th>
<th>Cable Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 ½&quot; x 4 ½&quot; TA2714 26D PoE (Standard Weight 5 knuckle)</td>
<td>180&quot;</td>
</tr>
<tr>
<td>4 ½&quot; x 4 ½&quot; T4A3786 26D PoE (Heavy Weight 5 knuckle)</td>
<td>PoE-C1500P</td>
</tr>
</tbody>
</table>

Cat5e, 24 AWG, Shielded, Stranded, 100 Ohm

*See the McKINNEY catalog for additional finishes and hinge types

McKinney ElectroLynx® PoE Frame Harness

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>Harness Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>180&quot;</td>
<td>PoE-C1500P</td>
</tr>
</tbody>
</table>

PoE Door & Frame Harnesses

All are Cat5e, 26 AWG, Shielded, Stranded, 100 Ohm

*See the McKINNEY catalog for additional finishes and hinge types

Patent pending and/or patent www.assaabloydss.com/patents
IN Series
Intelligent IP-Enabled Access Control

IN220 PoE System Architecture

Supplied by CI

B-Splice Crimp Connector

RJ45-F Jack

Cable: Cat 5e or higher
24 AWG

To building or electrical ground

Supplied by End User

PoE Switch

Patch Panel

Drain Wire Terminated on Rack

Approved Software

Certified Integrator (CI) supplies and terminates the B-Splice connector and the male RJ45 connector from harness to end user provided facility cable

Patch Cable

Patch Panel to PoE Switch

PoE Switch is Terminated to Earth Ground

24AWG Stranded Drain Wire for Earth Ground in 15' Frame Harness

Frame-Side Harness Assembly (15' length)

Cable: Cat 5e or higher
24 AWG

Cable: Cat 5e, 26 AWG stranded, 1000ohm

RJ45-M

RJ45-F

Ring Terminal Secured to Lock Mounting Plate

Drain Wire Terminated on Rack

Cable: Cat 5e or higher

Supplied by End User

Approved Software

Wiring to TIA/EIA 568-B Standard

Assist, the global leader in door opening solutions
Accessories and Software

Cover Plate Kits
79-5000  Mortise lock, IN120/IN220-7976 (key override, with deadbolt), 32D finish
79-5001  Mortise lock, IN120/IN220-7977 (no key override, with deadbolt), 32D finish
79-5002  Mortise lock, IN120/IN220-7978 (key override, no deadbolt), 32D finish
79-5003  Mortise lock, IN120/IN220-7979 (no key override, no deadbolt), 32D finish
10-5008  Cylindrical lock, IN120/IN220-10G77 (with key override), 32D finish

WFCD1 Network and Lock Configuration Tool Kit*
- Contains:
  - LCT software
  - Serial adapter cable (P/N 52-3956)
  - Users’ manual (on CD)
  - Quick start guide
  - Configuration cards (to configure iCLASS Only Locks)
  - USB cable (P/N 52-1635)

DHTA Power over Ethernet (PoE) Cable and Data Hinge Test Adapter for IN220
Developed for troubleshooting SARGENT PoE locks, the ASSA ABLOY PoE cable and data hinge test adapter verifies your PoE installation in the field. Sold as a kit containing two test adapters, it allows you to verify proper wiring from the door frame to the PoE data hinge and lock, or test the frame, hinge or door cables independently. This test tool helps answer the question “Is the problem in the lock or in the wiring to the lock?” and will save you troubleshooting time.

* The Network and Lock Configuration CD Tool Kit (WFCD1) is required to set up IN120 and IN220 locks. Only one is required per system. Lock Management Tool or a compatible system is also required.
IN Series
Intelligent IP-Enabled Access Control

Lock Management Tool

Lock Management Tool™ (LMT) allows programming, interrogation and overall management of ASSA ABLOY PoE locks from a centralized location for up to 50 doors. The application facilitates communication from a computer to the locks via IEEE 802.11af PoE infrastructure. The LMT program allows an administrator to establish multiple user types, time zones, holidays, user groups, auto-unlock periods and to obtain transaction history from all locks connected to the system.

LMT consists of a server based installation (a small workstation will be sufficient) with most of the daily administration and configuration being done through a web browser. A local client on the server can be used for more complex configuration tasks.

Features:
- Password protected database
- User database size based on local hardware configuration
- Allows for creation of user groups
- Easy to follow data entry
- Real-time clock with date and time
- Sixteen different time zones
- Holiday support
- Auto-unlock schedule with or without “first in” unlock
- Allows viewing of system wide events and history (total number of events based on local hardware configuration) – includes event type, date, time, user ID and name
- Configurable for all major HID® Prox 125 kHz or iCLASS® 13.56 MHz card formats
- Scheduler utility to establish lock communication at pre-defined intervals
- User manual included
- Browser-based user interface
- Simple drag-and-drop configurations
- Basic alarm monitoring

Requirements:
- Hardware:
  - Memory: 2 GB minimum, 4 GB+ recommended
  - Storage: 20 GB free hard disk space
  - Processor: Dual Core/(min Pentium IV w/HT) @ 2GHz (or equivalent) or faster
  - Screen: 800 x 600 required; 1024 x 768 Recommended
  - Network Card required
  - CD-ROM required
  - RS232 Serial Port (DB9)

- Operating System:
  - Windows XP 32bit, Server 2003 32bit, Vista 32/64bit, Win7 32/64bit, or Server 2008/2008R2

Note: IP address must be assigned by authorized network administrator and PC must utilize a static IP address
WFCD2 Lock Management Tool (LMT) 25 Door License

- Lock Management Tool™ allows programming, interrogation and overall management from a centralized location of up to 25 doors
- License is included and is obtained at time of installation
- Download from IntelligentOpenings.com

WFCD3 Lock Management Tool (LMT) 50 Door License

- Lock Management Tool™ allows programming, interrogation and overall management from a centralized location of up to 50 doors
- License is included and is obtained at time of installation
- Download from IntelligentOpenings.com

Integration Tools for ASSA ABLOY Locks

ASSA ABLOY electronic access control locks integrate with a range of industry-leading access control systems. For more information on which systems support our IP-enabled locks, please contact your local ASSA ABLOY Door Security Solutions office, www.assaabloydss.com. To learn more about how to integrate these and other ASSA ABLOY products with your system, please call 800-810-WIRE.
IN Series
Intelligent IP-Enabled Access Control

Standard Levers (7900 Mortise Locks)
- All levers meet ADA national code requirements
- Lever designs BJ, BL and BP have lever returns within 1/2" (13mm) of door face

BB
- 4-15/16" (126mm)
- 3/8" (10mm)

BJ
- 5-3/16" (132mm)
- 7/16" (11mm)

BL
- 5-1/16" (128mm)
- 7/16" (11mm)

BP
- 5-3/16" (132mm)
- 7/16" (11mm)

Standard Levers (8200 Mortise Locks and 80 Series Exit Devices)
- All levers meet ADA compliance for national codes
- Solid forged or cast
- Lever designs J, L and P have lever returns within 1/2" (13mm) or less of door face and meet California State Reference Fire Code
- All lever height (+/- 1/16") measurements represent total distance from door face

A
- 3-5/16" (81mm)
- +/- 5/16" (8mm)

B
- 5" (127mm)
- +/- 1-1/16" (27mm)

E
- 4-1/2" (114mm)
- +/- 5/16" (8mm)

F
- 4-1/2" (114mm)
- +/- 1-1/16" (27mm)

J
- 5-1/4" (133mm)
- +/- 5/16" (8mm)

L
- 5" (127mm)
- +/- 5/16" (8mm)

P
- 5-1/2" (140mm)
- +/- 5/16" (8mm)

W
- 4-1/2" (114mm)
- +/- 2" (51mm)

Standard lever options are only available with O roses.
IN Series
Intelligent IP-Enabled Access Control

Standard Levers (10 Line Cylindrical Locks)
- All levers meet ADA compliance for national codes
- Solid forged or cast
- Lever designs C, J, L and P have lever returns within 1/2" (13mm) or less of door face and meet California State Reference Fire Code
- All lever height (+/- 1/16") measurements represent total distance from door face

The Coastal Series (Mortise Locks, Cylindrical Locks - Gulfport and Yarmouth only, or Exit Devices)
- All levers meet ADA compliance for national codes
- Not available with CO and TO roses
- Levers are solid cast brass
- Finishes available — 3, 4, 9, 10, 10B, 10BE, 10BL, 14, 15, 20D, 26, 26D
- All lever height (+/- 1/16") measurements represent total distance from door face

G - Gulfport™ (Handed)
R - Rockport™
S - Sanibel™ (Handed)
Y - Yarmouth™ (Handed)
IN Series
Intelligent IP-Enabled Access Control

Studio Collection trim is available in a broad array of designs and finishes. It allows for uniformity throughout a facility using the 8200, R8200 and 7900 Series Mortise Locks, Access Control Products, 80 Series Exits Devices, DL and RDL Series Tubular Locks. All levers meet ADA compliance for national codes. Visit the online Decorative Hardware Product Selector at selector.sargentlock.com to mix and match styles and finishes.

Wooster Square Series

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>H001</td>
<td>H002²</td>
</tr>
<tr>
<td>H003</td>
<td>H004</td>
</tr>
<tr>
<td>H005²</td>
<td>H006²</td>
</tr>
</tbody>
</table>

Aventura Series

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB</td>
<td>ME</td>
</tr>
<tr>
<td>MF</td>
<td>NF</td>
</tr>
<tr>
<td>MG</td>
<td>MI</td>
</tr>
<tr>
<td>MW²</td>
<td></td>
</tr>
</tbody>
</table>

Gramercy Series³

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCM</td>
<td>RAL</td>
</tr>
<tr>
<td>REM</td>
<td>RAM</td>
</tr>
<tr>
<td>RAS</td>
<td>RAW</td>
</tr>
<tr>
<td>RAG</td>
<td>RGM</td>
</tr>
</tbody>
</table>

Centro Series

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC¹</td>
<td>MD</td>
</tr>
<tr>
<td>MJ</td>
<td>MP</td>
</tr>
<tr>
<td>ND²</td>
<td>NJ²</td>
</tr>
</tbody>
</table>

Odéon Series (Handed Levers)

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>MN</td>
<td>MH</td>
</tr>
<tr>
<td>MK</td>
<td>MS</td>
</tr>
<tr>
<td>MV</td>
<td>MX²</td>
</tr>
<tr>
<td>NS²</td>
<td>NU²</td>
</tr>
</tbody>
</table>

Rialto Series (MZ Lever is Handed)

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO</td>
<td>MZ²</td>
</tr>
</tbody>
</table>

Notting Hill Series (Handed Levers)

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA¹</td>
<td>MQ</td>
</tr>
<tr>
<td>MT</td>
<td>MM</td>
</tr>
<tr>
<td>MY²</td>
<td></td>
</tr>
</tbody>
</table>

Grant Park Series

<table>
<thead>
<tr>
<th>Series</th>
<th>Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>H007</td>
<td>H008</td>
</tr>
<tr>
<td>H009</td>
<td>H010</td>
</tr>
<tr>
<td>H011</td>
<td></td>
</tr>
</tbody>
</table>

¹ Contact factory for current lead times  
² Lever returns within 1/2" (13mm) of door face  
³ Gramercy levers are customized. See page 18 for ordering information  

Note: H003 - H006 contains white or black polycarbonate insert
IN Series
Intelligent IP-Enabled Access Control

Standard Roses

<table>
<thead>
<tr>
<th>L</th>
<th>O</th>
<th>E (Handed)</th>
<th>LN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image1" alt="Appearance" /></td>
<td><img src="Image2" alt="Appearance" /></td>
<td><img src="Image3" alt="Appearance" /></td>
<td><img src="Image4" alt="Appearance" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Available Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03 Polished Brass</td>
</tr>
<tr>
<td>04 Satin Brass</td>
</tr>
<tr>
<td>09 Polished Bronze</td>
</tr>
<tr>
<td>10 Satin Bronze</td>
</tr>
<tr>
<td>10B Oxidized Bronze</td>
</tr>
<tr>
<td>10BE Dark Oxidized Satin Bronze — equivalent</td>
</tr>
</tbody>
</table>

Coastal Series Roses

<table>
<thead>
<tr>
<th>TR Traditional Rose (Dual radii edge)</th>
<th>CR Contemporary Rose (Beveled edge)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image5" alt="Appearance" /></td>
<td><img src="Image6" alt="Appearance" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Available Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 Polished Nickel</td>
</tr>
<tr>
<td>15 Satin Nickel</td>
</tr>
<tr>
<td>26 Polished Chrome</td>
</tr>
<tr>
<td>26D Satin Chrome</td>
</tr>
<tr>
<td>32 Polished Stainless Steel</td>
</tr>
<tr>
<td>32D Satin Stainless Steel</td>
</tr>
</tbody>
</table>

Available Finishes:

- 03 Polished Brass
- 04 Satin Brass
- 09 Polished Bronze
- 10 Satin Bronze
- 10B Oxidized Bronze
- 10BE Dark Oxidized Satin Bronze — equivalent
- 14 Polished Nickel
- 15 Satin Nickel
- 26 Polished Chrome
- 26D Satin Chrome
- 32 Polished Stainless Steel
- 32D Satin Stainless Steel
IN Series
Intelligent IP-Enabled Access Control

Studio Collection Trim

Roses (7900 and 8200 Series)

O

CO

TO

LN

CR

TR

E2¹ (Handed)

E3¹ (Handed)

E4¹ (Handed)

Available Finishes

03 Polished Brass

04 Satin Brass

09 Polished Bronze

10 Satin Bronze

10B Oxidized Bronze

10BE Dark Oxidized Satin Bronze — equivalent

10BL Oxidized Satin Bronze

20D Statuary Dark Bronze

14 Polished Nickel

15 Satin Nickel

26 Polished Chrome

26D Satin Chrome

32 Polished Stainless Steel

32D Satin Stainless Steel

¹ 1KA square cylinder collar and 130KA square backplate automatically supplied with E2, E3 and E4 roses.

Thumbturns (7900 and 8200 Series)

Thumbturn backplate will match rose design chosen. Specify T1, T2 or T3 as a prefix option for decorative turns.

T1

T2

T3

ASSA ABLOY, the global leader in door opening solutions

1-800-727-5477 • www.sargentlock.com
Ordering Gramercy Series Levers

Gramercy Finish Codes

<table>
<thead>
<tr>
<th>BHMA FINISH</th>
<th>SARGENT FINISH</th>
<th>GRAMERCY CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>630</td>
<td>32D</td>
<td>30</td>
<td>Satin Stainless Steel</td>
</tr>
<tr>
<td>629</td>
<td>32</td>
<td>29</td>
<td>Bright Stainless Steel</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>BH</td>
<td>Wood insert</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>BK</td>
<td>Black (Santoprene™ or leather insert)</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>BN</td>
<td>Brown (leather insert)</td>
</tr>
</tbody>
</table>

*Code used to specify Gramercy Series finishes only. Use available finishes list to specify desired finish when ordering.

Gramercy Lever Descriptions and Available Finishes

<table>
<thead>
<tr>
<th>LEVER DESIGNATION</th>
<th>LEVER DESCRIPTION</th>
<th>AVAILABLE FINISHES (AS ORDERED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAG</td>
<td>Grooved Insert</td>
<td>2929 or 3030</td>
</tr>
<tr>
<td>RAL</td>
<td>Leather Insert</td>
<td>29BK29, 29BN29 30BK30, 30BN30</td>
</tr>
<tr>
<td>RAM</td>
<td>Metallic Insert</td>
<td>2930** only</td>
</tr>
<tr>
<td>RAS</td>
<td>Santoprene Insert</td>
<td>29BK29 or 30BK30</td>
</tr>
<tr>
<td>RAW</td>
<td>Wood Insert</td>
<td>29BH29 or 30BH30</td>
</tr>
<tr>
<td>RCM</td>
<td>Raised Band</td>
<td>2929, 3030 or 2930**</td>
</tr>
<tr>
<td>REM</td>
<td>Plain</td>
<td>2929 or 3030</td>
</tr>
<tr>
<td>RGM</td>
<td>Two Grooves</td>
<td>2929 or 3030</td>
</tr>
</tbody>
</table>

**Two-tone finish — grip of lever is 32D, balance of lever is 32. Rose/escutcheon and lock finish will be 32.

When specifying finish, use the last two digits of the BHMA standard finish code, i.e. use “29” for polished stainless, BHMA finish 629.
# IN Series

## Intelligent IP-Enabled Access Control

## Replacement Parts

### Reader Modules**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-120-EM01-(B)IP-B</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones; black</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IP-W</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones; white</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IP-MB-[finish]</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones; black with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IP-MW-[finish]</td>
<td>HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones; white with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IPS-B</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1; black</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IPS-W</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1; white</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IPS-MB-[finish]</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1; black with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)IPS-MW-[finish]</td>
<td>All credentials supported by the IP option plus MIFARE Classic and DESfire EV1; white with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)CP-B</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones; black</td>
</tr>
<tr>
<td>IN-120-EM01-(B)CP-W</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones; white</td>
</tr>
<tr>
<td>IN-120-EM01-(B)CP-MB-[finish]</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones; black with metal trim</td>
</tr>
<tr>
<td>IN-120-EM01-(B)CP-MW-[finish]</td>
<td>FeliCa, HID Prox®, NFC-enabled mobile phones; white with metal trim</td>
</tr>
</tbody>
</table>

### Inside Escutcheon

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-EM02-B</td>
<td>Black</td>
</tr>
<tr>
<td>IN-EM02-W</td>
<td>White</td>
</tr>
<tr>
<td>IN-EM02-MB-[finish]</td>
<td>Black with metal trim</td>
</tr>
<tr>
<td>IN-EM02-MW-[finish]</td>
<td>White with metal trim</td>
</tr>
</tbody>
</table>

### 52-5373 Door Position Switch (DPS)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN120-EM03</td>
<td>52-5373 Door Position Switch (DPS)</td>
</tr>
</tbody>
</table>

### IN220-EM03 WiFi Controller

### IN120-EM04 Inside Mounting Kit (mounting plate and hardware)

### Lockbodies¹

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN120-7976-[finish]*-[handing]</td>
<td>7900 mortise lockbody with deadbolt and cylinder</td>
</tr>
<tr>
<td>IN120-7977-[finish]*-[handing]</td>
<td>7900 mortise lockbody with deadbolt (no cylinder)</td>
</tr>
<tr>
<td>IN120-7978-[finish]*-[handing]</td>
<td>7900 mortise lockbody with cylinder (no deadbolt)</td>
</tr>
<tr>
<td>IN120-7979-[finish]*-[handing]</td>
<td>7900 mortise lockbody only (no deadbolt, no cylinder)</td>
</tr>
<tr>
<td>IN120-82276-[finish]*-[handing]</td>
<td>8200 mortise lockbody with deadbolt and cylinder</td>
</tr>
<tr>
<td>IN120-82277-[finish]*-[handing]</td>
<td>8200 mortise lockbody with deadbolt (no cylinder)</td>
</tr>
<tr>
<td>IN120-82278-[finish]*-[handing]</td>
<td>8200 mortise lockbody with cylinder (no deadbolt)</td>
</tr>
<tr>
<td>IN120-82279-[finish]*-[handing]</td>
<td>8200 mortise lockbody only (no deadbolt, no cylinder)</td>
</tr>
<tr>
<td>10-3407-5400</td>
<td>Cylindrical lockbody, standard cylinder</td>
</tr>
<tr>
<td>10-3412-5400</td>
<td>Cylindrical lockbody, LFIC</td>
</tr>
<tr>
<td>10-3417-5400</td>
<td>Cylindrical lockbody, SFIC</td>
</tr>
</tbody>
</table>

¹ Readers and lockbodies can be used for both IN120 and IN220

* Specify finish

** Add B for Bluetooth® Smart support
## Mechanical Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ADD STRENGTH</strong></td>
<td></td>
</tr>
<tr>
<td>3-</td>
<td>Stainless steel hubs for institutional specifications (mortise locks only)</td>
</tr>
<tr>
<td>28-</td>
<td>4-7/8&quot; Strike #808. Lip length 1-1/4 (10 line only)</td>
</tr>
<tr>
<td>WBS-</td>
<td>Wrought Box Strike</td>
</tr>
<tr>
<td><strong>10 LINE BRACKET OPTIONS</strong></td>
<td></td>
</tr>
<tr>
<td>20-</td>
<td>2-3/8&quot; Backset Latch with 1&quot; Front</td>
</tr>
<tr>
<td>23-</td>
<td>3-3/4&quot; Backset x 2-1/4&quot; x 1-1/8&quot; Front (10 Line only)</td>
</tr>
<tr>
<td>25-</td>
<td>5&quot; Backset x 2-1/4&quot; x 1-1/8&quot; Front (10 Line only)</td>
</tr>
<tr>
<td><strong>SECURITY FASTENERS</strong></td>
<td></td>
</tr>
<tr>
<td>36-</td>
<td>Six lobe security head screws</td>
</tr>
<tr>
<td>37-</td>
<td>Spanner head screws</td>
</tr>
<tr>
<td><strong>3/4&quot; LATCH THROW</strong></td>
<td></td>
</tr>
<tr>
<td>41-</td>
<td>3/4&quot; (19mm) throw latch x 2-3/4&quot; (70mm) backset (10 Line only)</td>
</tr>
<tr>
<td><strong>TACTILE WARNING OPTIONS</strong></td>
<td></td>
</tr>
<tr>
<td>75-</td>
<td>Tactile Warning — Milled Inside Lever (Not available with Studio and Coastal Levers and the A Lever)</td>
</tr>
<tr>
<td>76-</td>
<td>Tactile Warning — Milled Outside Lever (Not available with Studio and Coastal Levers and the A Lever)</td>
</tr>
<tr>
<td>77-</td>
<td>Tactile Warning — Milled Inside and Outside Lever (Not available with Studio and Coastal Levers and the A Lever)</td>
</tr>
<tr>
<td>85-</td>
<td>Tactile Warning — Abrasive Coating on Inside Lever</td>
</tr>
<tr>
<td>86-</td>
<td>Tactile Warning — Abrasive Coating on Outside Lever</td>
</tr>
<tr>
<td>87-</td>
<td>Tactile Warning — Abrasive Coating on Outside Lever</td>
</tr>
<tr>
<td><strong>FINISH PROTECTION</strong></td>
<td></td>
</tr>
<tr>
<td>CPC-</td>
<td>Clear Powder Coat (Available for 26, 26D, 32 and 32D Finishes)</td>
</tr>
<tr>
<td>SG-</td>
<td>MicroShield® antimicrobial clear powder coat (Not available with 10B Finish)</td>
</tr>
<tr>
<td><strong>THUMBTURN OPTIONS (SEE PAGE 17)</strong></td>
<td></td>
</tr>
<tr>
<td>T1-</td>
<td>Decorative thumbturn; backplate matches rose design chosen</td>
</tr>
<tr>
<td>T2-</td>
<td>Decorative square thumbturn; backplate matches rose design chosen</td>
</tr>
<tr>
<td>T3-</td>
<td>Decorative cylinder thumbturn; backplate matches rose design chosen</td>
</tr>
</tbody>
</table>
IN Series
Intelligent IP-Enabled Access Control

Cylinder Options

<table>
<thead>
<tr>
<th>Cylinder Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONVENTIONAL CYLINDER</strong></td>
<td>—</td>
</tr>
<tr>
<td><strong>SIGNATURE KEY SYSTEM</strong></td>
<td>10-</td>
</tr>
<tr>
<td></td>
<td>10-21-</td>
</tr>
<tr>
<td><strong>SIGNATURE: LARGE FORMAT INTERCHANGEABLE CORE (REMOVABLE CORE)</strong></td>
<td>10-63-</td>
</tr>
<tr>
<td><strong>XC- KEY SYSTEM</strong></td>
<td>11-</td>
</tr>
<tr>
<td></td>
<td>11-21-</td>
</tr>
<tr>
<td><strong>XC- LARGE FORMAT INTERCHANGEABLE CORE (REMOVABLE CORE)</strong></td>
<td>11-60-</td>
</tr>
<tr>
<td></td>
<td>11-63-</td>
</tr>
<tr>
<td></td>
<td>11-64-</td>
</tr>
<tr>
<td><strong>XC- SMALL FORMAT INTERCHANGEABLE CORE</strong></td>
<td>11-70-7P-</td>
</tr>
<tr>
<td></td>
<td>11-72-7P-</td>
</tr>
<tr>
<td></td>
<td>11-73-7P-</td>
</tr>
<tr>
<td><strong>CONSTRUCTION KEY SYSTEMS</strong></td>
<td>21-</td>
</tr>
<tr>
<td></td>
<td>22-</td>
</tr>
<tr>
<td><strong>OLD STYLE REMOVEABLE CORE</strong></td>
<td>51-</td>
</tr>
<tr>
<td></td>
<td>52-</td>
</tr>
<tr>
<td><strong>LARGE FORMAT INTERCHANGEABLE CORE (REMOVABLE CORE)</strong></td>
<td>60-</td>
</tr>
<tr>
<td></td>
<td>63-</td>
</tr>
<tr>
<td></td>
<td>64-</td>
</tr>
</tbody>
</table>
## Cylinder Options

<table>
<thead>
<tr>
<th>SMALL FORMAT INTERCHANGEABLE CORES</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>70-</strong></td>
<td>Hardware to accept 6 or 7-Pin SFIC Permanent Cores, plastic disposable core provided (10 Line J lever not available)</td>
<td></td>
</tr>
<tr>
<td><strong>72-</strong></td>
<td>Hardware to accept 6 or 7-Pin SFIC (Keyed Construction Core provided) Cylinder (Permanent Core Ordered Separately) (10 line J lever not available)</td>
<td></td>
</tr>
<tr>
<td><strong>73-</strong></td>
<td>Hardware supplied with 6-Pin SFIC (Includes masterkeying, grand masterkeying) (10 Line J lever not available)</td>
<td></td>
</tr>
<tr>
<td><strong>65-73-</strong></td>
<td>Hardware provided to accept Uncombinated 6-Pin SFIC (Permanent) Core (Packed loose for field keying) (10 Line J lever not available)</td>
<td></td>
</tr>
<tr>
<td><strong>65-73-7P-</strong></td>
<td>Hardware provided to accept Uncombinated 7-Pin SFIC (Permanent) Core (Packed loose for field keying) (10 Line J lever not available)</td>
<td></td>
</tr>
<tr>
<td><strong>73-7P-</strong></td>
<td>Hardware supplied with Small Format 7 Pin Interchangeable Core (Includes masterkeying, grand masterkeying) (10 Line J lever not available)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KESO &amp; KESO F1</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>81-</strong></td>
<td>Hardware provided with housings to accept Keso (83) and Keso F1 (F1-83-) removable cores (Not available with 10 Line) (Permanent Cores Ordered Separately)</td>
<td></td>
</tr>
<tr>
<td><strong>82-</strong></td>
<td>Hardware provided with SARGENT Keso Security Cylinder</td>
<td></td>
</tr>
<tr>
<td><strong>F1-82-</strong></td>
<td>Hardware provided with SARGENT Keso F1 Security Cylinder (Patented)</td>
<td></td>
</tr>
<tr>
<td><strong>83-</strong></td>
<td>Hardware supplied with SARGENT Keso Security Removable Core cylinder (Not available with 10 Line)</td>
<td></td>
</tr>
<tr>
<td><strong>F1-83-</strong></td>
<td>Hardware supplied with SARGENT Keso F1 Security Removable Core cylinder (Not available with 10 Line) (Patented)</td>
<td></td>
</tr>
<tr>
<td><strong>84-</strong></td>
<td>Hardware provided with SARGENT Keso Construction Cores (Not available with 10 Line) (Permanent Cores ordered separately)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BUMP RESISTANT</th>
<th>BR-</th>
<th>Bump Resistant Cylinder (Available with Conventional and Conventional XC Cylinders Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LESS CYLINDER</td>
<td>LC-</td>
<td>Hardware supplied less cylinder</td>
</tr>
</tbody>
</table>

### ACCEPTS SCHLAGE CYLINDERS

| SF-                                 | L Lever to accept Medeco KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (10 Line only) |

### SCHLAGE KEYWAYS

| SC-                                 | Schlage C keyway cylinder, 0 bitted (10 Line only) |
| SE-                                 | Schlage E keyway cylinder, 0 bitted (10 Line only) |
## IN Series
Intelligent IP-Enabled Access Control

### Cylinder Options

<table>
<thead>
<tr>
<th>Degree Cylinders</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DG1-</strong></td>
<td>SARGENT Degree Key System Level 1 (Bump resistant with patented keys)</td>
</tr>
<tr>
<td><strong>DG1-21</strong></td>
<td>Degree Level 1 Construction Master Keying</td>
</tr>
<tr>
<td><strong>DG1-60</strong></td>
<td>Degree Level 1 Removable Disposable Construction Core</td>
</tr>
<tr>
<td><strong>DG1-63</strong></td>
<td>Degree Level 1 Removable Core</td>
</tr>
<tr>
<td><strong>DG1-64</strong></td>
<td>Degree Level 1 Removable Construction Keyed LFIC</td>
</tr>
<tr>
<td><strong>DG1-65</strong></td>
<td>Degree Level 1 Unassembled/Uncombined Core</td>
</tr>
<tr>
<td><strong>DG2-</strong></td>
<td>SARGENT Degree Key System Level 2 (Geographically exclusive; bump and pick resistant)</td>
</tr>
<tr>
<td><strong>DG2-21</strong></td>
<td>Degree Level 2 Construction Master Keying</td>
</tr>
<tr>
<td><strong>DG2-60</strong></td>
<td>Degree Level 2 Removable Disposable Construction Core</td>
</tr>
<tr>
<td><strong>DG2-63</strong></td>
<td>Degree Level 2 Removable Core</td>
</tr>
<tr>
<td><strong>DG2-64</strong></td>
<td>Degree Level 2 Removable Construction Keyed LFIC</td>
</tr>
<tr>
<td><strong>DG2-65</strong></td>
<td>Degree Level 2 Unassembled/Uncombined Core</td>
</tr>
<tr>
<td><strong>DG3-</strong></td>
<td>SARGENT Degree Key System Level 3 (Geographically exclusive; UL437 certified; bump and pick resistant)</td>
</tr>
<tr>
<td><strong>DG3-21</strong></td>
<td>Degree Level 3 Construction Master Keying</td>
</tr>
<tr>
<td><strong>DG3-60</strong></td>
<td>Degree Level 3 Removable Disposable Construction Core</td>
</tr>
<tr>
<td><strong>DG3-63</strong></td>
<td>Degree Level 3 Removable Core</td>
</tr>
<tr>
<td><strong>DG3-64</strong></td>
<td>Degree Level 3 Removable Construction Keyed LFIC</td>
</tr>
<tr>
<td><strong>DG3-65</strong></td>
<td>Degree Level 3 Unassembled/Uncombined Core</td>
</tr>
</tbody>
</table>
IN Series
Intelligent IP-Enabled Access Control

Architectural Specifications

### 1.1 IN120 10 Line Series Cylindrical Locksets

**Intelligent WiFi Access Control Cylindrical Locks**

A. WiFi Access Control Cylindrical Locks to be 10-Line Series as manufactured by SARGENT Manufacturing of New Haven, CT.

B. BHMA certified extra heavy duty, lever type cylindrical lock conforming to ANSI 156.2 Series 4000, Grade 1 standard and ANSI A117.1 accessibility guidelines. Motorized locking control of lever handle trim (solenoids not acceptable) with ½” anti-friction deadlocking latch, UL listed and labeled for up to 3 hour fire rated openings.

1. Backset: 2-3/4 inches

C. WiFi access control locking devices interface using field replaceable IEEE 802.11 b/g/n, 2.4 GHz wireless radio connection to an Ethernet Local Area Network (LAN) facilitating centralized control via a Software Development Kit (SDK). Locks will continue to operate independent of Ethernet (LAN) wireless connection slowdown or failure.

1. Provide access control products with non-volatile memory.

D. Supports WEP, WPA, WPA2 and 802.1x wireless encryption (IEEE 802.11 b/g/n, 2.4 GHz). AES 128 encrypted communication between IP Enabled lock and electronic access control system platform via SDK. Programmable time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™.

1. Valid/invalid credential presentation viewable by means of LED indicators on outside escutcheon.

F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:

1. Operating temperature: -13°F (-25°C) to 151°F (66°C)
2. Operating humidity: < 85% non-condensing

G. Configuration: Programming of time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Standard privacy function initiated from push button on inside escutcheon and cancelled upon activation of valid Request-To-Exit (REX) or user defined credentials.

a. Activation of privacy function is indicated by LED notification on inside escutcheon.

b. Redundant actuation of privacy button does not deactivate privacy mode.

I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.

J. Inside lever retracts latch bolt.

K. Power Source: Powered by 6 AA alkaline batteries with LED indication of locked, programming mode and low capacity warning status conditions.

1. Optional hard power by means of 12-24 VDC power supply.

L. Cylinders: Reference 2.04 Keying for keying requirements
2.1 IN120 7900 Series Mortise Locksets

Intelligent WiFi Access Control

Mortise Locks
A. WiFi Access Control Mortise Locks to be 7900 Series as manufactured by SARGENT Manufacturing of New Haven, CT.
B. BHMA certified extra heavy duty, lever type mortise lock conforming to ANSI 156.13 Series 1000, Grade 1 standard and ANSI A117.1 accessibility guidelines. Electronic motorized locking control of lever handle trim (solenoids not acceptable) with 3/4” projection stainless steel latchbolt, one-piece construction and 1” case-hardened steel deadbolt. UL listed and labeled for up to 3 hour fire rated openings.
1. Backset: 2-3/4 inches
C. WiFi access control locking devices interface using field replaceable IEEE 802.11 b/g/n, 2.4 GHz wireless radio connection to an Ethernet Local Area Network (LAN) facilitating centralized control via a Software Development Kit (SDK). Locks will continue to operate independent of Ethernet (LAN) wireless connection slowdown or failure.
1. Provide access control products with non-volatile memory.
D. Supports WEP, WPA, WPA2 and 802.1x wireless encryption (IEEE 802.11 b/g/n, 2.4 GHz). AES 128 encrypted communication between IP Enabled lock and electronic access control system platform via SDK. Programmable time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.
1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.
E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™.
1. Valid/Invalid credential presentation viewable by means of LED indicators on outside escutcheon.
F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:
1. Operating temperature: -13°F (-25°C) to 151°F (66°C)
2. Operating humidity: < 85% non-condensing
G. Configuration: Programming of time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.
1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.
H. Monitoring: Software accessible monitoring (via SDK) of inside lever handle (Request-to-Exit), door position switch (DPS) integral to the lock (door open/closed status), forced door, unknown card, door held open, battery and tamper.
1. Privacy function initiated from push button on inside escutcheon and cancelled upon activation of valid Request-To-Exit (REX) or user defined credentials.
   a. Activation of privacy function is indicated by LED notification on inside escutcheon.
   b. Redundant actuation of privacy button does not deactivate privacy mode.
I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.
J. Inside lever retracts latch bolt.
K. Power Source: Powered by 6 AA alkaline batteries with LED indication of locked, programming mode and low capacity warning status conditions.
1. Optional hard power by means of 12-24 VDC power supply.
L. Cylinders: Reference 2.04 Keying for keying requirements.
2.2 IN120 8200 Series Mortise Locksets

Intelligent WiFi Access Control

Intelligent Mortise Locks

A. WiFi Access Control Mortise Locks to be 8200 Series as manufactured by SARGENT Manufacturing of New Haven, CT.

B. BHMA certified extra heavy duty, lever type mortise lock conforming to ANSI 156.13 Series 1000, Grade 1 standard and ANSI A117.1 accessibility guidelines. Electronic motorized locking control of lever handle trim (solenoids not acceptable) with 3/4" anti-friction deadlocking latch and 1" case-hardened steel deadbolt. UL listed and labeled for up to 3 hour fire rated openings.

1. Backset: 2-3/4 inches

C. WiFi access control locking devices interface using field replaceable IEEE 802.11 b/g/n, 2.4 GHz wireless radio connection to an Ethernet Local Area Network (LAN) facilitating centralized control via a Software Development Kit (SDK). Locks will continue to operate independent of Ethernet (LAN) wireless connection slowdown or failure.

1. Provide access control products with non-volatile memory.

D. Supports WEP, WPA, WPA2 and 802.1x wireless encryption (IEEE 802.11 b/g/n, 2.4 GHz). AES 128 encrypted communication between IP Enabled lock and electronic access control system platform via SDK. Programmable time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

E. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:

1. Operating temperature: -13°F (-25°C) to 151°F (66°C)

2. Operating humidity: < 85% non-condensing

G. Configuration: Programming of time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

H. Monitoring: Software accessible monitoring (via SDK) of inside lever handle (Request-to-Exit), door position switch (DPS) integral to the lock (door open/closed status), forced door, unknown card, door held open, battery and tamper.

1. Privacy function initiated from push button on inside escutcheon and cancelled upon activation of valid Request-To-Exit (REX) or user defined credentials.

a. Activation of privacy function is indicated by LED notification on inside escutcheon.

b. Redundant actuation of privacy button does not deactivate privacy mode.

I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.

J. Inside lever retracts latch bolt.

K. Power Source: Powered by 6 AA alkaline batteries with LED indication of locked, programming mode and low capacity warning status conditions.

1. Optional hard power by means of 12-24 VDC power supply.

L. Cylinders: Reference 2.04 Keying for keying requirements
IN Series
Intelligent IP-Enabled Access Control

3.1 IN120 80 Series Exit Devices

A. WiFi Access Control Rim & Mortise Exit Devices to be IN120-80 Series as manufactured by SARGENT Manufacturing of New Haven, CT.

B. BHMA certified panic and exit device hardware conforming to ANSI 156.3, Grade 1 standard and ANSI A117.1 accessibility guidelines. Electronic motorized locking control of lever handle (solenoids not acceptable) contained completely within the body of the outside trim control. U.L. listed and labeled for either panic or “Fire Exit Hardware” for use on up to 3 hour fire rated openings.

1. Mortise Exit Devices shall utilize a ¾" anti-friction deadlocking latch and 1" case-hardened steel deadbolt with a 2-3/4" Backset.

C. WiFi access control locking devices interface using field replaceable IEEE 802.11 b/g/n, 2.4 GHz wireless radio connection to an Ethernet Local Area Network (LAN) facilitating centralized control via a Software Development Kit (SDK). Devices will continue to operate independent of Ethernet (LAN) wireless connection slowdown or failure.

1. Provide access control products with non-volatile memory.

D. Supports WEP, WPA, WPA2 and 802.1x wireless encryption (IEEE 802.11 b/g/n, 2.4 GHz). AES 128 encrypted communication between IP Enabled lock and electronic access control system platform via SDK. Programmable time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

E. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:

1. Operating temperature: -31°F to 150°F (-35°C to 65°C)
2. Operating humidity: 5% to 95% relative humidity non-condensing

F. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™.

1. Valid/Invalid credential presentation viewable by means of LED indicators on outside escutcheon.
Architectural Specifications

1.1 IN220 10 Line Series Cylindrical Locksets

Intelligent PoE Access Control
Cylindrical Locks

A. PoE Access Control Cylindrical Locks to be 10-Line Series as manufactured by SARGENT Manufacturing of New Haven, CT.

B. BHMA certified extra heavy duty, lever type cylindrical lock conforming to ANSI 156.2 Series 4000, Grade 1 standard and ANSI A117.1 accessibility guidelines. Motorized locking control of lever handle trim (solenoids not acceptable) with ½” anti-friction deadlocking latch, UL listed and labeled for up to 3 hour fire rated openings.

1. Backset: 2-3/4 inches

C. Power-over-Ethernet intelligent access control locking devices interface using standard IEEE 802.3af Ethernet for data and power communication directly from the locking unit back to a host server over an existing or newly installed TCP/IP network facilitating centralized control via a Software Development Kit (SDK) to an online electronic access control system without the need for additional interfaces or components (excluding PoE Endspan and Midspan devices).

1. Provide access control products with non-volatile memory.

D. Fully-encrypted AES-128 (IEEE 802.3af) communication between IP Enabled lock and electronic access control system platform via SDK. Programmable time zone periods, blocked holidays, automatic unlock with or without first entry, minimum of 2,400 user codes and the ability to audit the last 10,000 transactions (event type, date, time, user ID and name). Distributed intelligence allows stand alone functional operation of lock in absence of network communication or slowdown allowing for system operational redundancy.

E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™.

1. Valid/invalid credential presentation viewable by means of LED indicators on outside escutcheon.

F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:

1. Operating temperature: -13°F (-25°C) to 151°F (66°C)

2. Operating humidity: < 85% non-condensing

G. Configuration: Programming of time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

H. Monitoring: Software accessible monitoring (via SDK) of inside lever handle (Request-to-Exit), door position switch (DPS) integral to the lock (door open/closed status), forced door, unknown card, door held open, battery and tamper.

1. Standard privacy function initiated from push button on inside escutcheon and cancelled upon activation of valid Request-To-Exit (REX) or user defined credentials.

a. Activation of privacy function is indicated by LED notification on inside escutcheon.

b. Redundant actuation of privacy button does not deactivate privacy mode.

I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.

J. Inside lever retracts latch bolt.

K. Power source: PoE Class 1; Max 3.84 W.

1. PoE endspan/midspan, electrical hard wiring, grounding, connections, mounting boxes, and structured cabling framework are required for complete system functionality (by others).

2. Network cabling (by others) requirements: Meet or exceed ANSI/TIA/EIA-568-C; CAT5e or higher as set forth by AHJ.

3. Bonding and grounding requirements: Meet or exceed TIA-607-B to ensure proper operation; connect locking device ground cable to building electrical earth ground.

4. Network surface mount box: Meet or exceed ANSI/TIA/EIA-568-B; CAT5e or higher (RJ-45).

L. Cylinders: Reference 2.04 Keying for keying requirements
2.1 IN220 7900 Series Mortise Locksets

A. PoE Access Control Mortise Locks to be 7900 Series as manufactured by SARGENT Manufacturing of New Haven, CT.

B. BHMA certified extra heavy duty, lever type mortise lock conforming to ANSI 156.13 Series 1000, Grade 1 standard and ANSI A117.1 accessibility guidelines. Electronic motorized locking control of lever handle trim (solenoids not acceptable) with 3/4" projection stainless steel latchbolt, one-piece construction and 1" case-hardened steel deadbolt. UL listed and labeled for up to 3 hour fire rated openings.

1. Backset: 2-3/4 inches

C. Power-over-Ethernet intelligent access control locking devices interface using standard IEEE 802.3af Ethernet for data and power communication directly from the locking unit back to a host server over an existing or newly installed TCP/ IP network facilitating centralized control via a Software Development Kit (SDK) to an online electronic access control system without the need for additional interfaces or components (excluding PoE Endspan and Midspan devices).

1. Provide access control products with non-volatile memory.

D. Fully-encrypted AES-128 (IEEE 802.3af) communication between IP Enabled lock and electronic access control system platform via SDK. Programmable time zone periods, blocked holidays, automatic unlock with or without first entry, minimum of 2,400 user codes and the ability to audit the last 10,000 transactions (event type, date, time, user ID and name). Distributed intelligence allows stand alone functional operation of lock in absence of network communication or slowdown allowing for system operational redundancy.

E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™.

1. Valid/ Invalid credential presentation viewable by means of LED indicators on outside escutcheon.

F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:

1. Operating temperature: -13°F (-25°C) to 151°F (66°C)

2. Operating humidity: < 85% non-condensing

G. Configuration: Programming of time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

H. Monitoring: Software accessible monitoring (via SDK) of inside lever handle (Request-to-Exit), door position switch (DPS) integral to the lock (door open/closed status), forced door, unknown card, door held open, battery and tamper.

1. Privacy function initiated from push button on inside escutcheon and cancelled upon activation of valid Request-To-Exit (REX) or user defined credentials.

a. Activation of privacy function is indicated by LED notification on inside escutcheon.

b. Redundant actuation of privacy button does not deactivate privacy mode.

I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.

J. Inside lever retracts latch bolt.

K. Power source: PoE Class 1; Max 3.84 W.

1. PoE endspan/midspan, electrical hard wiring, grounding, connections, mounting boxes, and structured cabling framework are required for complete system functionality (by others).

2. Network cabling (by others) requirements: Meet or exceed ANSI/TIA/ EIA-568-C; CAT5e or higher as set forth by AHJ.

3. Bonding and grounding requirements: Meet or exceed TIA-607-B to ensure proper operation; connect locking device ground cable to building electrical earth ground.

4. Network surface mount box: Meet or exceed ANSI/TIA/EIA-568-B; CAT5e or higher (RJ-45).

L. Cylinders: Reference 2.04 Keying for keying requirements
2.2 IN220 8200 Series Mortise Locksets

Intelligent PoE Access Control

Mortise Locks

A. Power-over-Ethernet (PoE) Access Control

Mortise Locks to be 8200 Series as manufactured by SARGENT Manufacturing of New Haven, CT.

B. BHMA certified extra heavy duty, lever type mortise lock conforming to ANSI 156.13 Series 1000, Grade 1 standard and ANSI A117.1 accessibility guidelines. Electronic motorized locking control of lever handle trim (solenoids not acceptable) with 3/4" anti-friction deadlocking latch and 1" case-hardened steel deadbolt. UL listed and labeled for up to 3 hour fire rated openings.

1. Backset: 2-3/4 inches

C. Power-over-Ethernet intelligent access control locking devices interface using standard IEEE 802.3af Ethernet for data and power communication directly from the locking unit back to a host server over an existing or newly installed TCP/IP network facilitating centralized control via a Software Development Kit (SDK) to an online electronic access control system without the need for additional interfaces or components (excluding PoE Endspan and Midspan devices).

1. Provide access control products with non-volatile memory.

D. Fully-encrypted AES-128 (IEEE 802.3af) communication between IP Enabled lock and electronic access control system platform via SDK. Programmable time zone periods, blocked holidays, automatic unlock with or without first entry, minimum of 2,400 user codes and the ability to audit the last 10,000 transactions (event type, date, time, user ID and name). Distributed intelligence allows stand alone functional operation of lock in absence of network communication or slow down allowing for system operational redundancy

E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™.

1. Valid/Invalid credential presentation viewable by means of LED indicators on outside escutcheon.

F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:

1. Operating temperature: -13°F (-25°C) to 151°F (66°C)

2. Operating humidity: < 85% non-condensing

G. Configuration: Programming of time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

H. Monitoring: Software accessible monitoring (via SDK) of inside lever handle (Request-to-Exit), door position switch (DPS) integral to the lock (door open/closed status), forced door, unknown card, door held open, battery and tamper.

1. Privacy function initiated from push button on inside escutcheon and cancelled upon activation of valid Request-To-Exit (REX) or user defined credentials.

a. Activation of privacy function is indicated by LED notification on inside escutcheon.

b. Redundant actuation of privacy button does not deactivate privacy mode.

I. Emergency override access capability by mechanical key cylinder retraction of lock latch bolt without electronic activation necessary.

J. Inside lever retracts latch bolt.

K. Power source: Class 1; Max 3.84 W.

1. PoE endspan/midspan, electrical hard wiring, grounding, connections, mounting boxes, and structured cabling framework are required for complete system functionality (by others).

2. Network cabling (by others) requirements: Meet or exceed ANSI/TIA/EIA-568-C; CAT5e or higher as set forth by AHJ.

3. Bonding and grounding requirements: Meet or exceed ANSI/TIA/EIA-568-C; CAT5e or higher (RJ-45).

4. Network surface mount box: Meet or exceed ANSI/TIA/EIA-568-B; CAT5e or higher (RJ-45).

L. Cylinders: Reference 2.04 Keying for keying requirements
IN Series
Intelligent IP-Enabled Access Control

3.1 IN220 80 Series Exit Devices

Intelligent Power-over-Ethernet (PoE) Access Control Rim & Mortise Exit Devices

A. Power-over-Ethernet (PoE) Access Control Rim & Mortise Exit Devices to be 80 SERIES as Manufactured by SARGENT Manufacturing of New Haven, CT.

B. BHMA certified exit devices conforming to ANSI 156.3, Grade 1 standard and ANSI A117.1 accessibility guidelines. Electronic motorized locking control of the outside trim (solenoids not acceptable) contained completely within the body of the outside trim control. U.L. listed and labeled for either panic or “Fire Exit Hardware” for use on up to 3 hour fire rated openings.

1. Mortise Exit Devices shall utilize a ¾” anti-friction deadlocking latch and 1” case-hardened steel deadbolt with a 2-3/4” Backset.

C. Power-over-Ethernet intelligent access control locking devices interface using standard IEEE 802.3af Ethernet for data and power communication directly from the locking unit back to a host server over an existing or newly installed TCP/IP network facilitating centralized control via a Software Development Kit (SDK) to an online electronic access control system without the need for additional interfaces or components (excluding PoE Endspan and Midspan devices).

1. Provide access control products with non-volatile memory.

D. Fully-encrypted AES-128 (IEEE 802.3af) communication between IP Enabled lock and electronic access control system platform via SDK. Programmable time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

E. Integrated reader supports HID® 125 kHz proximity credentials or ISO 14443 A/B and ISO 15693 13.56 MHz contactless credentials: HID® iCLASS / iCLASS SE (full authentication, all formats), MIFARE Classic and DESFire EV1 (full authentication, all formats); NFC (Near Field Communications) and HID® SIO-Enabled™.

1. Valid/ Invalid credential presentation viewable by means of LED indicators on outside escutcheon.

F. Environmental Conditions: Conformally coated weather resistant electronic controller shall meet the following minimum requirements:

1. Operating temperature: -31 to 150°F (-35 to 65°C)
2. Operating humidity: 5% to 95% relative humidity non-condensing

G. Configuration: Programming of time zone periods, blocked holidays, automatic unlock with or without first entry, and listing 10,000 event transaction history consisting of event type, date, time, user ID and name is required.

1. Provide network and lock configuration CD tool kit for initial lock set-up and programming via USB connection.

H. Monitoring: Software accessible monitoring (via SDK) of inside push rail (Request-to-Exit), integral door position switch (DPS) integral to the device (door open/closed status), forced door, unknown card, door held open, battery and tamper.

I. Emergency override access capability by mechanical key cylinder retraction of device latch without electronic activation necessary.

1. Provide keyed cylinder dogging feature for non-rated devices and keyed removable mullions as specified.

J. Inside push bar retracts latch bolt for free egress.

K. Power Source: PoE Class 1; Max 3.84 W.

1. PoE Endspan/Midspan, electrical hard wiring, grounding, connections, mounting boxes, and structured cabling framework are required for complete system functionality (by others).

2. Network Cabling (by others) Requirements: Meet or exceed ANSI/TIA/EIA-568-C; CAT5e or higher as set forth by AHJ.

3. Bonding and Grounding Requirements: Meet or exceed TIA-607-B to ensure proper operation; Connect locking device ground cable to building electrical earth ground.

4. Network Surface Mount Box: Meet or exceed ANSI/TIA/EIB-568-B; CAT5e or higher (RJ45).

L. Cylinders: Reference 2.04 Keying for keying requirements.
Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.