

Overview

IN120

Credential Support:

The IN120 features HID® multiCLASS SE™ technology to support the following credentials:

- High Frequency (13.56 MHz):
 - HID iCLASS®
 - HID iCLASS SE® (SIO-enabled)
 - HID iCLASS® Seos™
 - HID MIFARE® SE
 - HID DESfire® EV1 SE
 - MIFARE Classic
 - DESfire EV1
 - FeliCa
- Low Frequency (125 kHz):
 - HID Prox®
- NFC-enabled mobile phones

Security:

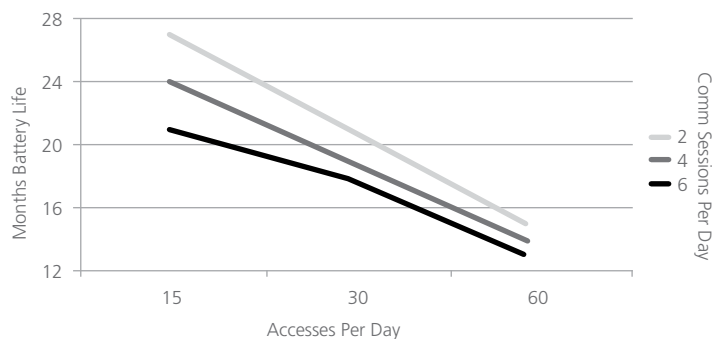
- AES 128-bit encryption
- Supports current WiFi network security standards, including:
 - WEP, WPA and WPA2
 - 802.1x
- For specific security information, please contact your local ASSA ABLOY Door Security Solutions sales representative or call 800-810-Wire.

Software:

- Lock Management Tool available for small installations
- Works with ASSA ABLOY IP-Enabled Access Control Partner software
- Software Development Kits (SDK) and support available to integrate into other third party access control systems. Email OEMSupport@assaabloyusa.com for assistance.

Powering Options

- Six (6) AA batteries included for completely wireless applications
- IN120 Battery Life*



*Battery life data was calculated using Duracell® batteries.

- Hardpower wiring from 12-24v DC filtered and regulated supply. Each unit requires 200ma @12v DC.



Features

ML20100 IN120 Mortise Locks



Mortise Lock
ML20100

The IN120 mortise lock has a clean, crisp design and is available with a variety of lever designs and hardware finishes.

Features

Handing

Handed; quick reversibility. The lockset can be re-handed without disassembling the lock body.

Door Thickness

1-3/4" (44mm) standard.
Optional 2" (50mm) to 2-1/4" (57mm); see Quick Code section.

Backset

2-3/4" (70mm).

Lockcase

Heavy-gauge chrome plated steel,
5-7/8" (149mm) x 4" (102mm) x 15/16"
(24mm).

Front

Heavy-gauge steel, 8" (203mm) x 1-1/4"
(32mm) x 3/32" (2mm). Accommodates
non-beveled and beveled doors 1/8"
(3mm) in 2" (51mm).

Armored Front

Wrought brass, bronze or stainless steel
attached by machine screws to lockcase
front.

Latch

Patented, quick, reversible 2-piece
mechanical with anti-friction insert 5/8"
(16mm) x 1" (25mm) x 3/4" (19mm). U.S.
Patent #6,349,982.

Auxiliary Latchbolt

9/16" (14mm) effective throw and
3/8" (10mm) effective auxiliary latch
deadlocking.

Deadbolt

One-piece stainless steel, 19/32" (15mm) x
1-1/4" (32mm) x 1" (25mm) throw.

Lever Trim

Free floating, to fit doors 1-3/4" (44mm)
to 2-1/4" (57mm); see Quick Code
section.

Hub

Steel, 5/16" (8mm).

Strike

Wrought brass, bronze or stainless steel
ANSI straight lip standard, 4-7/8" (124mm)
x 1-1/4" (32mm) x 1-1/8" (29mm) lip to
center.
Optional strikes, lip lengths and ANSI
wrought strike box available.

Cylinder

1000-138-A01, 6-pin, L4, keyed random,
furnished standard for 1-3/4" (44mm)
door.
Optional cylinders available.

Batteries

Operates with 6 AA batteries (included).

Environmental Specifications

Operating Temperature:

-13°F (-25°C) to 151°F (66°C)

Operating humidity:

5% to 95% relative humidity non-
condensing

Optional Power Supply

12-24VDC output. Each power supply
operates 1 IN120 mortise lock.

Monitoring

- Request to Exit
- Door Position (external)

Warranty

10-year limited mechanical.
2-year limited electrical.

Shipping Weight

Approx. 11 lbs.

Certification/Compliance

ANSI

Meets A156.13, Grade 1 requirements.
Meets A117.1 Accessibility Code.
Meets A156.25 requirements.

UL /ULC-UL10C Positive Pressure

All locks listed for A label and lesser class
doors, 4' (122cm) x 10' (305cm) single
or 8' (244cm) x 10' (305cm) pair. Letter F
and UL symbol on armored front indicate
listing.

Any retrofit or other field modification to
a fire rated opening can potentially impact
the fire rating of the opening, and Corbin
Russwin, Inc. 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.

Quick Codes

ML20100 IN120 Mortise Locks

Cylinders and Keying

Description	Specify
Conventional 6-pin	(standard)
Conventional 7-pin	7P
Less Cylinder(s)	LC
IC 6-pin	C6
IC 6-pin with Temporary Construction Core	
Red	CT6R
Blue	CT6B
Green	CT6G
CI 6-pin Less Core	CL6
SFIC 6-pin with Less Core	CLS6
SFIC 6-pin with SFIC disposable temporary core	CT6SD
IC 7-pin	C7
IC 7-pin with Temporary Construction Core	
Red	CT7R
Blue	CT7B
Green	CT7G
IC 7-pin Less Core	CL7
SFIC 7-pin with Less Core	CLS7
SFIC 7-pin with SFIC disposable temporary core	CT7SD
Security	HS
Security IC	CHS
Pyramid Fixed Core	PHS
Pyramid IC	PCHS
Pyramid IC Less Core	CLP
Pyramid with Temporary Construction Core	CTP
Pyramid Security	PS
Pyramid Security IC	PCS
Pyramid Disposable Core	CTPD
6-pin Disposable Core	CT6D
7-pin Disposable Core	CT7D
Keyed Random (Standard)	KR
Construction Master Eyed (not available for Pyramid)	CMK
Visual Key Control	
- No Keying Data Stamped on Key or Cylinder	VKC0
- Keys Only	VKC1
- Cylinders and Keys (not for HS, CHS, PHS or PCHS)	VKC2
- Cylinders Only (not for HS, CHS, PHS or PCHS)	VKC3

Cylinders and Keying (Cont.)

Description	Specify
Concealed Key Control (CKC)	
- CKC Cylinders with VKC Keys	CKC2
- CKC Cylinders Only (not for PHS, PCHS)	CKC3
2 Keys per Lock	(standard)
More than 2 Keys	KY# (e.g., KY6)

Finish

Description	Specify
Polished Brass, Clear Coated	605
Satin Brass, Clear Coated	606
Polished Bronze, Clear Coated	611
Satin Bronze, Clear Coated	612
Dark Oxidized Satin Bronze, Oil Rubbed	613
Dark Oxidized Satin Bronze - Equivalent	613E
Polished Nickel	618
Satin Nickel	619
Polished Chrome	625
Satin Chrome	626
Satin Chrome with MicroShield®	626C
Black Oxidized Bronze, Oil Rubbed	722

Miscellaneous Options

Description	Specify
Torx® head screws	M04
ANSI wrought strike box	M17
Knurling outside and inside*	M20
Knurling outside only*	M21
Knurling inside only	M22
Abrasive coat outside and inside*	M23
Abrasive coat inside only*	M24
Abrasive coat outside only*	M25
Remote power	M35

*Not available with Vineyard or Museo levers.

Thumbturns

Description	Specify
Decorative	MT1
Decorative Square	MT2
Decorative Cylinder	MT2

Door Thickness

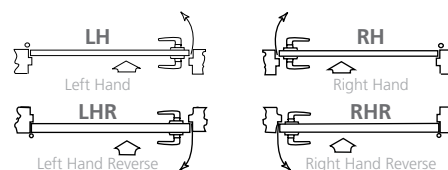
Door Thickness	Specify
1-3/4" (44mm)	(standard)
2" (51mm)	D200
2-1/4" (57mm)	D214

Strikes

ANSI Lip to Center	ANSI Straight Lip Specify	Curved Lip Specify
7/8" (22mm)	SS078	N/A
1-1/8" (29mm)	(standard)	N/A
1-1/4" (32mm)	SS114	SA114
1-3/8" (35mm)	SS138	SA138
1-1/2" (38mm)	SS112	SA112
1-3/4" (44mm)	SS134	SA134
2" (51mm)	SS200	SA200
2-1/4" (57mm)	SS214	SA214
2-1/2" (64mm)	SS212	SA212
2-3/4" (70mm)	SS234	SA234
3" (76mm)	SS300	SA300
Open Back Strike	Door Thickness	Specify
	1-3/4" (44mm)	SB134
	2" (51mm)	SB200
	2-1/4" (57mm)	SB214
Rabbeted front and strike - Specify		SR118

Handing

Hand	Specify
Right Hand	RH
Left Hand	LH
Right Hand Reverse	RHR
Left Hand Reverse	LHR



Note: Arrow indicates secure side of door.

Options & Accessories

IN120

WFCD1 Network And Lock Configuration CD Tool Kit*

- Required to configure network settings of the IN120 WiFi lock



Contains:

- NCT/LCT software
- Serial adapter cable (to order, specify 712F879)
- USB cable (P/N 783F909)
- Users' manual (on CD)
- Prox card
- iCLASS® Reader Configuration Cards Pack (WF001)



*The network and lock configuration CD Tool Kit (WFCD1) is required to set up IN120 locks. Only one is required per system. Lock Management Tool or a compatible system is also required.

Cover Plate Kits

Description	Part Number
IN120 mortise lock, ML20133 (no key override, no deadbolt)	784F137 32D
IN120 mortise lock, ML20134 (key override, no deadbolt)	784F147 32D
IN120 mortise lock, ML20135 (no key override, with deadbolt)	784F157 32D
IN120 mortise lock, ML20136 (key override, with deadbolt)	784F167 32D
IN120 cylindrical lock, CL33134 (with key override)	784F177 32D

Hard Power Option (M35)

The Hard Power option (Quick Code M35) 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. Corbin Russwin offers a range of power supplies suitable for this application.

Operation

Power supplies are designed to provide reliable filtered and regulated power for long life to a variety of electrified hardware components. All modular power supplies are designed to meet UL 1481 Standards.

Features

- Fire panel emergency release input
- PC Board mounted system LED indicator
- Regulated and filtered with input and output protection
- Battery charging is provided from a separate output terminal

Electrical Specifications

- Inputs: 115VAC @600mA
- Outputs: 12/24 VDC @ 1 Amp, 1.5 Amp or 4 Amp, Filtered and regulated output

Listings

- UL & cUL listed 1012 General Purpose Power Supply
- Fire & Burglar Alarm Power Supply Unit URT2
- Releasing device Accessory SYSW
- Access Control Systems Units ALVY
- Burglar Alarm Systems Power Supply APHY

Model	Description
BPS-24-1	Power supply 1.0 amp @ 24 VDC output
BPS-24-2	Power supply 2 amp @ 24 VDC output
BPS-24-4	Power supply 4 amp @ 24 VDC output
BPS-12-1	Power supply 1 amp @ 12 VDC output
BPS-12-3	Power supply 3 amp @ 12 VDC output

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



Lock Management Tool

IN120

Lock Management Tool

Lock Management Tool™ (LMT) allows programming, interrogation and overall management of ASSA ABLOY WiFi locks from a centralized location for up to 50 doors. The application facilitates communication from a computer to the locks via IEEE 802.11b/g/n WiFi 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

WFCD2 Lock Management Tool (LMT) CD

- 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

Kit Contains:

- LMT software
- Users' manual (on CD)

WFCD3 Lock Management Tool (LMT) CD



- 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

Kit Contains:

- LMT software
- Users' manual (on CD)

Integration Tools for ASSA ABLOY Locks

The Corbin Russwin IP-enabled locks are managed by a range of access control and security systems. For more information on which systems support the Corbin Russwin 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. For a complete list of IP-enabled access control partners, visit www.intelligentopenings.com.

Available Trim Options

ML20100 IN120 Mortise Locks

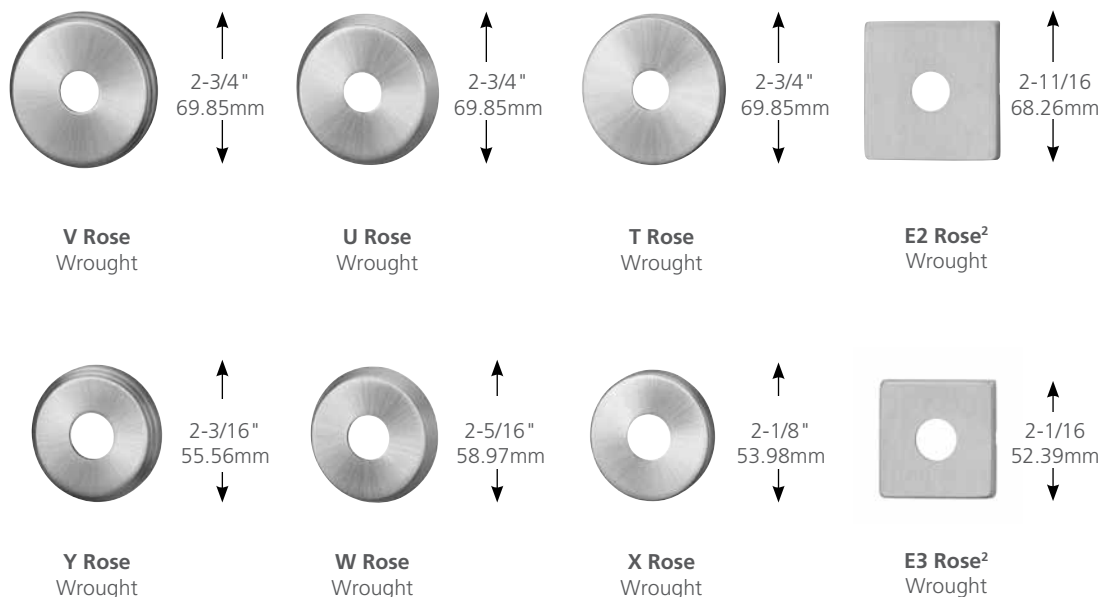
Standard	Lever	A Rose	B Rose	F Rose				
Armstrong	ASA	ASB	ASF					
Newport	NSA	NSB	NSF					
Princeton	PSA	PSB	PSF		Armstrong	Citation	Dirke	Essex*
Citation	CSA	CSB	CSF					
Dirke	DSA	DSB	DSF					
Essex	ESA	ESB	ESF					
Lustra	LSA	LSB	LSF					
Regis	RSA	RSB	RSF					
Vineyard™	G Rose							
Frascati	FSG							
Merlot	MSG							
Tuscany	TSG				Frascati	Merlot	Tuscany	Zinfandel
Zinfandel	ZSG							
Muséo®								
Georgia								
	101	102	103	104	124*	125*		
Salvador								
	106	107	108	109	110	123*		
	128*	129*						
Marc								
	111	112	113	114	115	116		
	130*	131*	132*					
Pablo								
	117	126*						
Jackson								
	105	119	120	121	122	127*		
Piet								
	21L	21G	21M	21S	21W	23M	25M	27M

*Complies with codes requiring lever to return to within 1/2" (13mm) of door face.

Available Trim Options

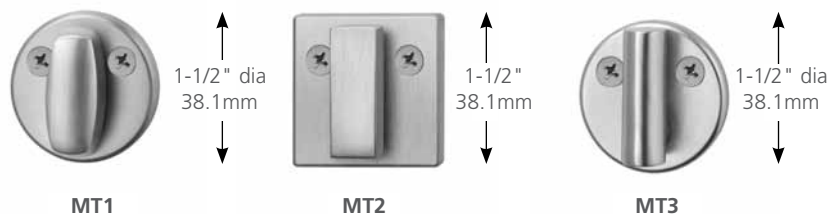
ML20100 IN120 Mortise Locks

Muséo® Collection Roses¹



Thumbturns³

Specify quick code MT1, MT2, or MT3 for decorative turns. Standard thumbturn will be supplied without quick code.



Notes:

1. Roses trim are only available with Muséo levers.
2. Square cylinder collar and thumbturn backplate automatically supplied with E2 and E3 roses.
3. Thumbturn back plate will match shape of rose chosen (i.e. round or square).

Architectural Specifications

IN120

IN120 CL33100 Cylindrical Locks

Intelligent WiFi Access Control Cylindrical Locks

- A. WiFi Access Control Cylindrical Locks to be CL3300 Series as manufactured by Corbin Russwin of Berlin, 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 1/2" 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, 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
 3. Weatherized design suitable to withstand harsh environments with a certified rating of IP55
- 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: 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

IN120 ML20100 Mortise Locks

Intelligent WiFi Access Control Mortise Locks

- A. WiFi Access Control Mortise Locks to be ML20100 Series as manufactured by Corbin Russwin of Berlin, 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, 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.
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