

M50 Series

Electronic Mortise Lock



Description

The M50 electronic lock is a high-performance entrance lock designed for commercial and high-end residential applications, combining intelligent electronic access control with the proven durability of the Boo Series mortise lock body. Engineered for security, convenience, and long-term reliability, it provides a seamless balance between modern technology and traditional mechanical strength.

Built to meet ANSI/BHMA A156.13 standards for mortise locks and ANSI/BHMA A156.25 standards for electrified locking devices, the M50 delivers dependable performance under demanding daily use. The lock supports multiple access methods, offering flexible and secure entry management for offices, apartments, hospitality, and institutional projects.

Ideal for offices, apartments, hotels, mixed-use developments, and other access-controlled environments, the M50 electronic lock is well suited for applications requiring enhanced security, convenient user management, and durable commercial-grade performance. Its combination of electronic functionality and heavy-duty mortise construction makes it an excellent solution for both new construction and retrofit projects.

Application

- Office buildings
- Apartments & multifamily housing
- Hotels & hospitality projects
- Mixed-use developments
- Condominium entrances
- Student housing
- Senior living facilities
- Access-controlled interior openings
- Retrofit and new construction projects

Certification & Compliance

	Lock body certified with ANSI/BHMA A156.13 Grade 1 function, strength and security. Tested over 1,000,000 cycles.
	UL/cUL listed-up to 3 hours fire rating for mortise lock body.

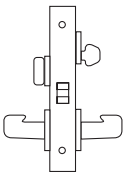
Advantages

- Motorized mortise lock body with electrical clutch inside
- Combines electronic access control with heavy-duty mortise lock security
- Built on the proven mortise lock platform
- Meets ANSI/BHMA A156.13 and A156.25 standards
- Multiple access methods of PIN code, RFID credential, and mechanical key override
- Fast and convenient keyless entry operation
- Commercial-grade durability for high-traffic applications
- Smooth and reliable lever operation
- Enhanced security and user management convenience
- Reversible handing for installation flexibility
- Stainless steel construction for long-term performance
- Tempered glass touch screen
- Clean architectural design compatible with modern interiors
- Four through-bolts reinforce the trim for enhanced security and vandal resistance
- Applicable for metal or wood doors

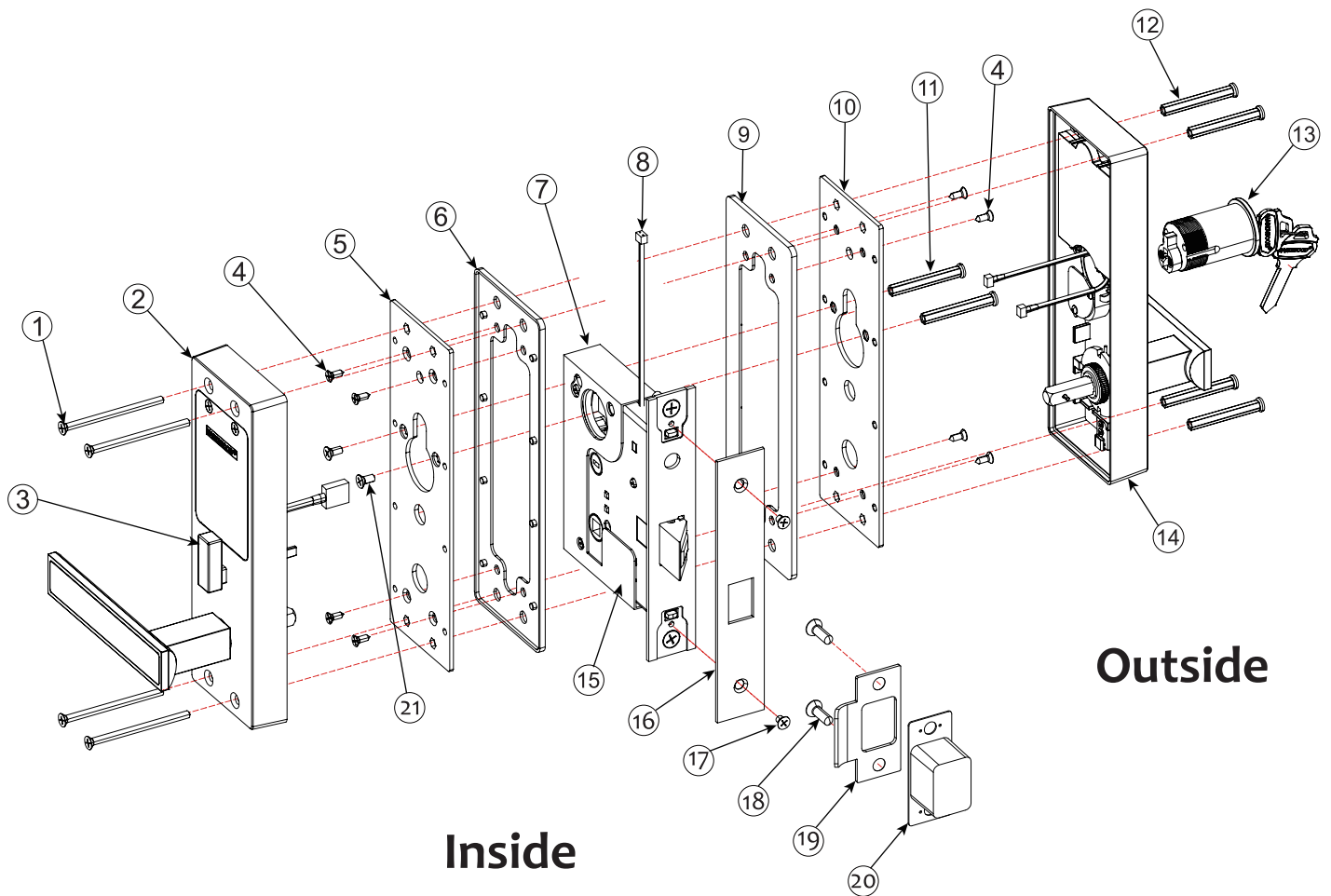
Specifications

Door preparation	ANSI/BHMA A156.115W or A156.115
Door thickness	For doors 1-3/4" (45mm) to 2-1/4" (57mm) thick standard
Stile	4-1/2" (114mm) minimum stile
Backset	*Standard backset 2-3/4" (70mm)
CTC distance	Lever to cylinder center distance 2-31/32" (75mm)
Function	ANSI Fo4
Lock case	SS304, thickness 3/32" (2.5mm)
Latch bolt	SS303, A156.13 Grade 1 latch bolt projection 3/4"
Cylinder	A16 Φ 1-1/8" cylinder, C28000 brass, 6 pin, 3 keys, satin nickel face
Strike	SS304, 2-3/4" curved lip strike, thickness 5/64" (2mm)
Electronic trim	SS303 cast escutcheon trim, thickness 9/64" (3.5mm)
Touch screen	Tempered glass
Battery	4 AA batteries for 2 years normal life
Emergency power	USB interface
Access methods	NFC, PIN code, key
Hand	Field reversible latch bolt
Finishes	US32D

Functions & Configuration

PICTURE	ANSI NO.	FUNCTION	DESCRIPTION	LEVER	CYLINDER	THUMB TURN	EMERG TURN
	Fo4 Variant	Intruder Security Latch	Latch bolt operated by lever from either side, except outside lever is mechanically disabled. Key retracts latch from outside. Inside turn disabling both inside lever and outside key.	✓	✓	✓	

Product Components



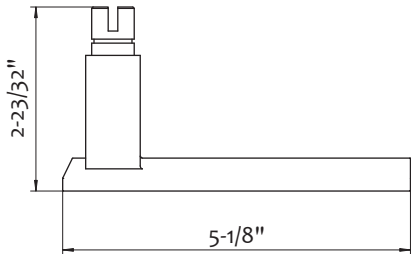
NO.	Description	NO.	Description
1.	Screw-trim	12.	Guide pin-trim
2.	Inside trim	13.	Cylinder
3.	Thumb turn	14.	Outside trim
4.	Screw-base plate & gasket	15.	Lock body
5.	Inside base plate	16.	Face plate
6.	Inside gasket	17.	PH #8-32UNC×1/4" screw
7.	Cable guard	18.	PH #12-24×3/4"+#12 screw
8.	Motor cable	19.	Strike
9.	Outside gasket	20.	Strike box
10.	Outside base plate	21.	Screw-base plate
11.	Guide pin-base plate		

Trim Details



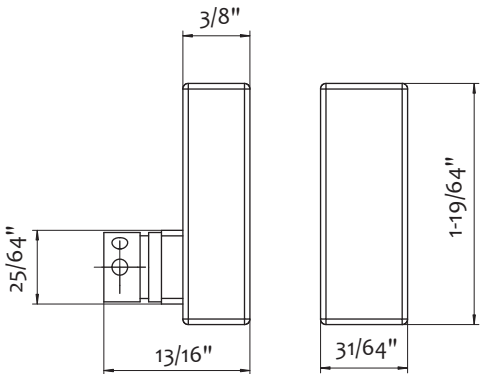
Trim type	Escutcheon trim
Material	SS303 cast
Thickness	9/64" (3.5mm)
Width	2-31/32" (75mm)
Height	8-5/8" (219mm)
Projection	3-1/16" (77.9mm)

Lever Options



M50A02 Lever
SS303 solid cast
US32D

Thumb Turn Options



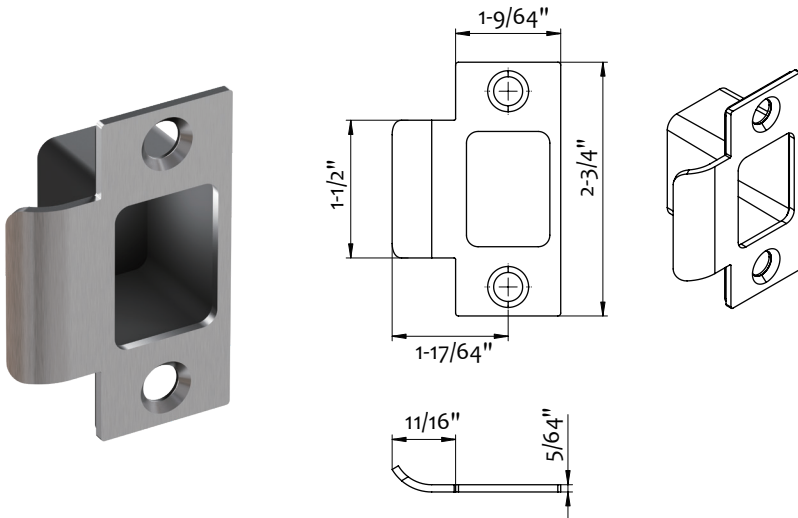
T52 Thumbturn
SS303 solid cast
US32D

Cylinder Details



A16 cylinder
Φ1-1/8"×1-13/16" (Φ29×38mm)
C28000 brass body, 6 pins
Satin nickel cylinder face
3 pcs of C26000 brass keys, nickel plated.

Strike Details



ST-08

- 2-3/4" (70mm) curved lip strike SS304.
- 1-7/64" (32mm) curved lip
- Strike box 2-23/32" x 1-1/8" x 1-1/32" (69x28.5x26mm), PA66

Installation dimensions

