

Aperio® L100 Wireless Lock Euro profile

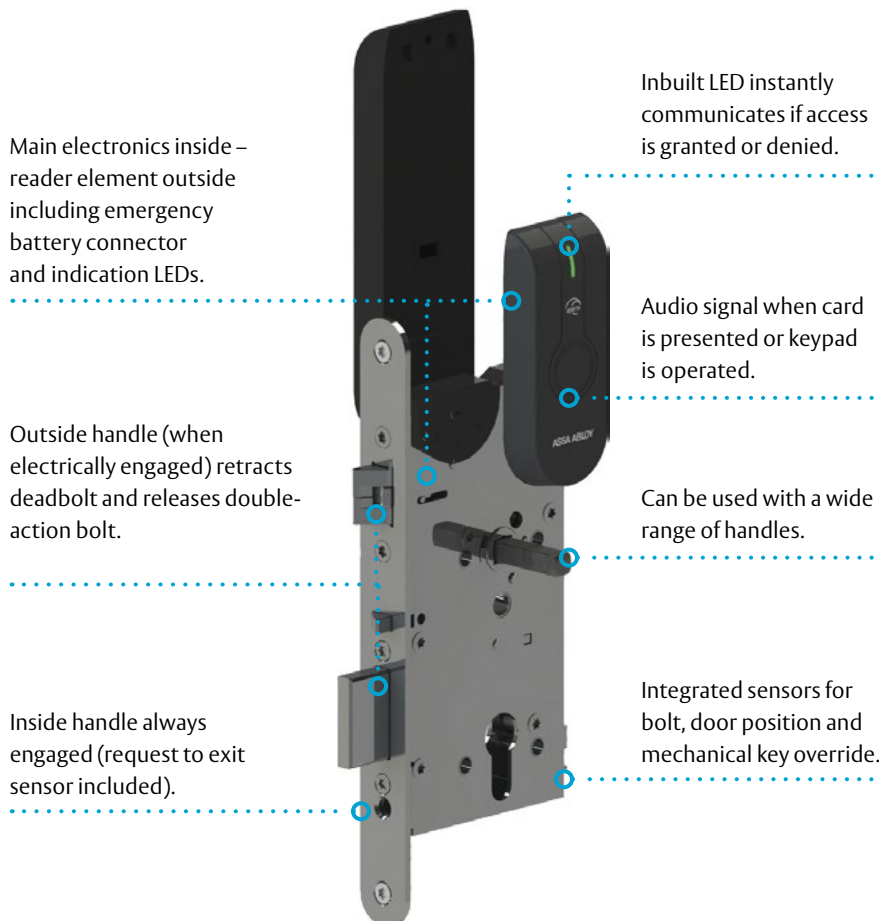
Technical information

ASSA ABLOY
Opening Solutions

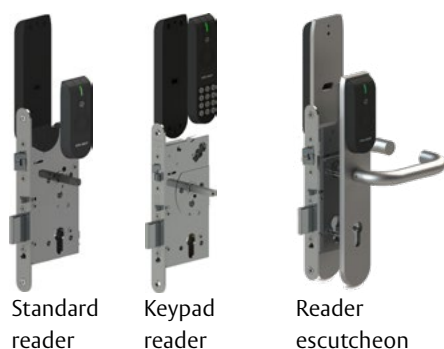
Experience a safer
and more open world

The cost-effective solution for doors with demanding access control requirements

The ASSA ABLOY Aperio L100 is the most complete electronic wireless security lock on the market. It works with almost any system, via Online, Offline or OSS-standard offline integration.



Versions:



Lock profile:



Easy integration

Aperio L100 works seamlessly with access control systems integrated with Aperio via the AADP protocol or Wiegand hub. No database integration required.



Highly effective safety and security protection

Reader: IP54 outside part, IP44 inside part.
Lock case: CE, UKCA, EN 179, EN 1125, EN 14846.



Multi-authentication

L100 adds an extra layer of security to your opening with the Keypad version (only supported by Aperio online).



Monitoring

Integrated sensors for door (open/closed); bolt position (locked/unlocked) and key mechanical override detection. Handle status detection (request to exit).



Convenience

Aperio L100 reads industry-leading RFID credentials, as well as mobile (NFC).

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Technical information



Documents
and certificates

Technical data and features

	Authentication	CARD/Mobile, PIN, CARD/Mobile & PIN combined
	Code	PIN code managed by the access control system
	RFID technologies	iCLASS, iCLASS SE, iCLASS Seos, MIFARE Classic, Mifare Classic SE, Mifare Ultralight, Mifare Plus, Mifare DESFire 0.6, Mifare DESFire EV1, Mifare DESFire EV2, Mifare DESFire EV3 (EV2 and EV3 only in Legacy mode), Mifare DESFire SE, PicoPass, ISO 14443A UID, ISO 14443B UID, ISO 15693 UID
	RFID reading	UID / Sector / Block / Application / File / Depending on the RFID technology
	RFID reading range	Up to 4 cm
	Mobile technology	NFC
	Approvals	CE, UKCA, EN 14846, EN 179 and EN 1125 lock. Fire (AL560: WF assessment report No. 383734 and Certifire CF5920)
	Dimensions	Standard: Lock: 168,5 × 16,5 × 88/93/98 (H × W × D) Reader inside: 167,8 × 48 × 20 (H × W × D) Reader outside: 101,8 × 43,7 × 15 (H × W × D)
	Handle	Handle sold separately. With the optional Escutcheon Reader, U-shape handle available
	Surface	Reader: Plastic Reader Escutcheon: Stainless steel Faceplate for the lock: Stainless steel
	Door profile	Standard or narrow profile
	DIN direction	Left / right convertible
	Backset	Standard doors: 55 mm, 60 mm, 65 mm Narrow doors: 30 mm, 35 mm, 40mm, 45mm
	Distance	Standard doors: 72 mm Narrow doors: 92 mm, spindle 8/9 mm
	Spindle	See feature: Door leaf thickness
	Faceplate	24 mm
	Door leaf thickness	Spindle length – Door thickness in (): 47/50 (40-54 mm); 57/50 (47-66 mm); 67/60 (61-80 mm); 74/50 (66-80 mm); 120/120 (88-100 mm); 80/50 (70-87 mm)
	Battery	2 × Lithium AA (FR6)
	Battery life (based on reader type)	65 openings per day for 50 months
	Emergency power	Via power supply connector
	Radio standard	IEEE 802.15.4 (2.4 GHz)
	Encryption (radio communication)	AES 128 bits
	Distance between device and hub	Up to 25m depending on the building environment
	Class of protection	IP 44 inside* / IP 54 outside**
	Operating temperature range	10°C to 65°C inside / -40°C to 65°C outside
	Relative humidity	< 85% (condensation-free)
	Status	LED (red/green/orange) and buzzer
	Door sensor information	Door position (open/closed); Bolt position (secured/unsecured); Mechanical key override (avoid alarm); Handle position (REX); Tamper detection
	Communication interfaces	Communication via radio (USB dongle) or micro-USB cable (accessory)
	Offline and Online operation modes	Aperio Online; Aperio Offline; OSS-standard Offline



It includes:

- 1 lock case with 2 batteries (Lithium AA FR6)
- Reader and main electronics
- Screws, flexible cables
- Spindles have to be ordered separately
- Manual including instructions for installation and drilling



Communicates with:

- RS485 Communication Hub
- Aperio IP Communication Hub
- Wiegand Interface (standard and advanced versions) Communication Hub



Smart Credential Handling:

Up to 1000 users can be granted access even if the EAC is temporarily down.

* L100 is recommended for use indoors. However, it can be placed in a door facing outdoors (but the battery pack must be always in the indoor part).

** Harsh, outdoor environments may affect product operation (excessive humidity, salt, extreme temperatures).

Technical information

Technical drawing of the 3000 Series Locking Bolt Assembly, showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 235
- Top mounting bracket width: 88 / 93 / 98
- Top mounting bracket height: 57
- Top mounting bracket thickness: 10
- Top mounting bracket offset: 22
- Top mounting bracket hole diameter: 8
- Top mounting bracket hole offset: 6
- Top mounting bracket hole diameter: 20
- Top mounting bracket hole offset: 35
- Top mounting bracket hole diameter: 20 / 24
- Top mounting bracket hole offset: 3
- Top mounting bracket hole diameter: 35

Side View Dimensions:

- Overall height: 168.5
- Top mounting bracket height: 63
- Top mounting bracket offset: 66.5
- Top mounting bracket thickness: 16.5
- Top mounting bracket hole diameter: 55 / 60 / 65
- Top mounting bracket hole offset: 8
- Top mounting bracket hole offset: 9
- Top mounting bracket hole diameter: 38
- Top mounting bracket hole offset: 21.5
- Top mounting bracket hole diameter: 72 (PZ)
- Top mounting bracket hole offset: 8
- Top mounting bracket hole diameter: 38
- Top mounting bracket hole offset: 8
- Top mounting bracket hole diameter: 6 x 2
- Top mounting bracket hole offset: 8
- Top mounting bracket hole diameter: 6 x 2

Technical drawing of a vertical metal profile with dimensions and hole specifications. The drawing shows a side view of the profile with various dimensions and hole sizes.

Dimensions (mm):

- Overall height: 300
- Top section height: 101
- Section 1 height: 22
- Section 2 height: 39
- Section 3 height: 6
- Section 4 height: 12
- Section 5 height: 35
- Section 6 height: 20
- Section 7 height: 8
- Section 8 height: 17
- Section 9 height: 22
- Section 10 height: 15
- Section 11 height: 32
- Section 12 height: 32
- Section 13 height: 20
- Section 14 height: 3
- Section 15 height: 24
- Section 16 height: 30
- Section 17 height: 92 (PZ)
- Section 18 height: 254
- Section 19 height: 91
- Section 20 height: 76
- Section 21 height: 25
- Section 22 height: 21.5
- Section 23 height: 25
- Section 24 height: 20.5

Hole specifications:

- Hole 1: $\phi 10.5$
- Hole 2: $\phi 10.5$
- Hole 3: $\phi 5.5$
- Hole 4: $\phi 8$ / $\phi 9$
- Hole 5: $\phi 8.5$
- Hole 6: $\phi 5.5$
- Hole 7: $\phi 8$
- Hole 8: $\phi 8$
- Hole 9: $\phi 4.5 \times 2$

Other specifications:

- Top edge: 45 / 50 / 55 / 60
- Bottom edge: 30 / 35 / 40 / 45

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