Life made limitless.

C5S.1.SB Oval cylinder

System-level description

The self-powered iLOQ S5 is a next-generation locking system that replaces difficult-to-manage mechanical locks and electromechanical locks that depend on an external power source such as batteries. The highly encrypted system enables flexible and secure access management and maintains high security in demanding properties such as commercial real estate, office buildings and housing associations.

The iLOQ C5S lock cylinders get their energy from the motion of inserting the key into the lock cylinder. This eliminates the need for any type of batteries or cabling. Because no batteries are needed, maintenance and lifecycle costs are significantly lower than mechanical or battery-operated electromechanical locking systems.

The lock cylinders operate as part of the iLOQ D2D network, which makes it quick and easy to remove lost keys from the system, change access rights and track log events.

The iLOQ S5 product family covers door locks, padlocks and furniture locks, as well as the necessary fittings and mounting accessories. The iLOQ S5 can also be expanded into a remote access control system with iLOQ Online products.

Feature summary

- Battery-free digital lock cylinder for iLOQ S5 locking system
- Lock does not need batteries or cables
- Powerful and secure AES256 encryption for common lock and key authentication
- As part of the D2D network, it acts as an information receiver and data sharer
- Initial programming via PC using the iLOQ P55S.1 programming key connected to the server
- Lock can be set with access areas for lock groups or individual locks
- Programmable lock opens with a compatible K5S key
- Blocked list for single lost keys
- Log memory for openings and opening attempts (timestamps with RTC)
- Supports time constraints in the form of time profiles (with RTC)
- Updatable firmware

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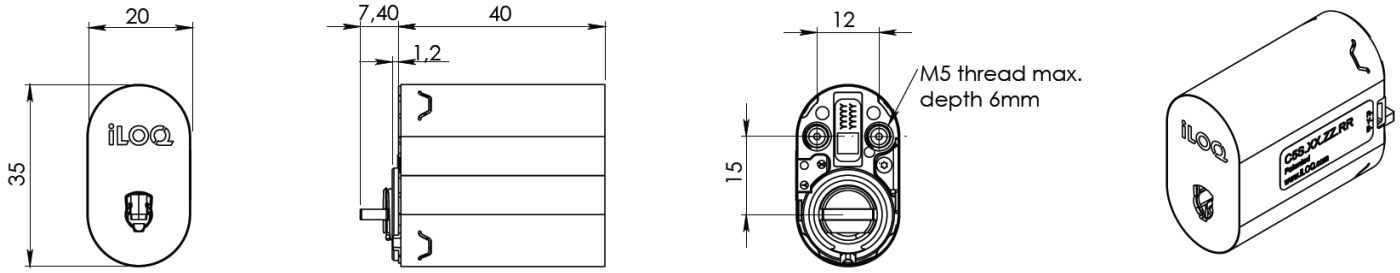
Dimensional drawing



Memory capacity

Number of access rights	210
Number of blocklisted keys	500
Number of time slots	10
Size of event log	500

Technical data

Antimicrobial coating	✗
Ingress protection rating	IP21
Real time clock battery lifetime	10 years
Real time clock compatibility	Compatible with one real time clock
Remote management with iLOQ Online products	✓
Maximum temperature	80°C
Minimum temperature	-40°C
Usage environment	Outdoor
Attack resistance (EN 15684:2020)	Grade D with high security escutcheon
Category of use (EN 15684:2020)	Grade 1
Credential related security (EN 15684:2020)	Grade D
Durability (EN 15684:2020)	Grade 6
Environmental resistance (EN 15684:2020)	Grade 4
Fire/smoke resistance (EN 15684:2020)	Grade B
Mechanical key related security (EN 15684:2020)	Grade 0
System management (EN 15684:2020)	Grade 2, Grade 3 (in combination with a real time clock)

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