Life made limitless.

D5S.510.SB Europrofile half cylinder for key switches

System-level description

The self-powered iLOQ S5 system 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 D5S 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.

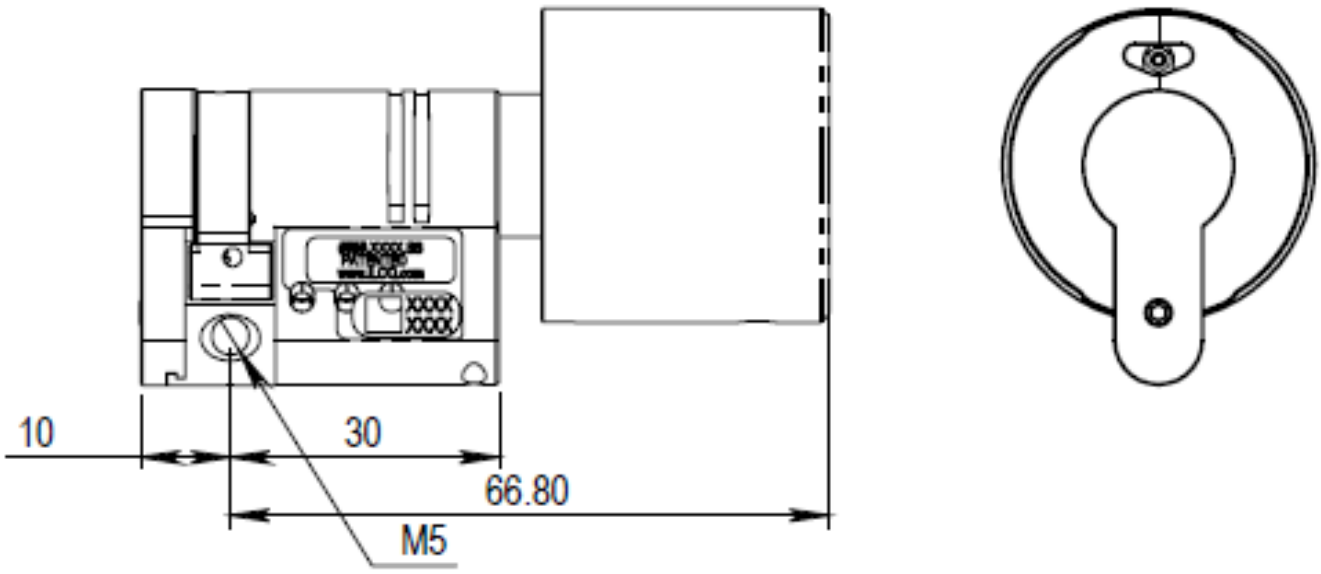
The iLOQ S5 product family covers cylinders, padlocks and furniture locks etc. The iLOQ S5 system can also be expanded into a remote access control system with iLOQ Online products.

Feature summary

- battery-free digital lock cylinder for iLOQ S5 locking system
- Lock does not need batteries or cables
- Powerful and secure AES-256 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 token connected to the server
- Compatible with DIN 18252 and EN 15684 standards
- Adjustable cam, 12 different pre-defined positions
- Operating angle +/- 90° (around neutral position)
- Lock can be set with access areas for lock groups or individual locks
- Internal audit trail record with time stamp (can be configured on/off)
- Programmable lock opens with a compatible K5S key
- Blocking 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)
- Reprogramming with the K5S keys or the P55S.1 programming token
- 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

Ingress protection rating	IP55
Long neck	✗
Real time clock battery lifetime	10 years
Real time clock compatibility	One real time clock included
Remote management with iLOQ Online products	✗
Maximum temperature	70°C
Minimum temperature	-25°C
Attack resistance (EN 15684:2020)	Grade 0
Category of use (EN 15684:2013-01)	Class 1
Category of use (EN 15684:2020)	Grade 1
Credential related security (EN 15684:2020)	Grade D
Durability (EN 15684:2013-01)	Grade 5
Durability (EN 15684:2020)	Grade 6
Electronic key related security (EN 15684:2013-01)	Class F
Environmental resistance (EN 15684:2013-01)	Class 4
Environmental resistance (EN 15684:2020)	Grade 4
Fire/smoke resistance (EN 15684:2013-01)	Class B
Fire/smoke resistance (EN 15684:2020)	Grade B
Mechanical key related security (EN 15684:2013-01)	Grade A
Mechanical key related security (EN 15684:2020)	Grade 0
System management (EN 15684:2013-01)	Grade 3
System management (EN 15684:2020)	Grade 2

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