Life made limitless.

D50S.121.SD Europrofile half cylinder

System-level description

The patented, award winning iLOQ S50 locking system offers advanced security and convenient access sharing features for master-key locking environments.

The iLOQ D50S Europrofile cylinders harvest electricity wirelessly from the NFC field. This technology transforms a smartphone into a key and power source making the lock completely battery-free. Because no batteries are required, the locks are a maintenance-free and environmentally-friendly green solution that reduces workload, costs, waste and harm associated with battery-powered solutions.

The iLOQ S50 doesn't have a keyway due to contactless NFC technology. The lock is designed for exposure to harsh environments and extreme climates, while remaining water-resistant and dustproof.

The smartphone as a key provides exceptional features coupled with high security. With flexible access sharing, time restrictions and audit trail reporting over-the-air, security gaps caused by lost keys can be eliminated completely without costly changes to locks and keys.

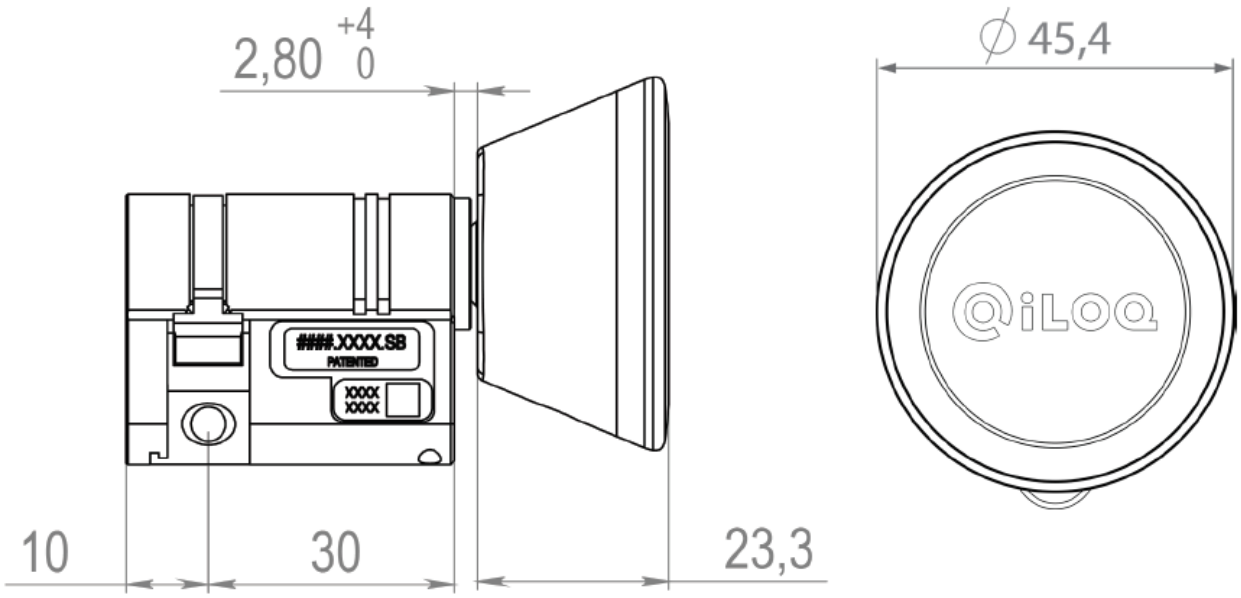
The cylinder body is 30 mm long. The cylinder length can be easily extended from 5 mm resolution to 100 mm resolution with extension pieces. Modular extension solutions enable flexible stocking and easy length modifications on installation sites. The modular system also allows for different cylinder combinations: half-, knob- and double cylinders. The cylinder is available in two different reader lengths; short and long. The position of the short reader can be adjusted 2 mm and the long reader 4 mm, in 2 mm steps.

Feature summary

- battery-free programmable electromechanical lock cylinder for iLOQ S50 locking system
- NFC-powered: no batteries required for the lock
- Opening with NFC enabled Android/iOS phone or iLOQ K55S Key Fob
- Secured using powerful AES-256 encryption and mutual authentication
- Compatible with DIN 18252 Europrofile cylinder standard
- Modular construction allows easy configuration for half-, double-, or turn-knob version and cylinder length adjustment
- Length extensions available in 5 mm steps up to 70 mm
- Initial programming with PC and iLOQ P55S.1 Programming Token in connection to server
- Access right list for access groups
- Blocklist for individual lost keys
- Internal audit trail record with time stamp (can be configured on/off)
- Supports time restrictions
- Can be configured to require online opening authentication
- Re-programming with keys (Android/iOS phone or K55S Key Fob)
- Firmware updateable

iLOQ Oy • Oulu, Finland • www.iLOQ.com • iLOQ is registered trademark of iLOQ Oy •
©2024 iLOQ Oy. All Rights Reserved •

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
Reader type	Long reader
Surface treatment	Satin chrome
Maximum temperature	65°C
Minimum temperature	-25°C
Attack resistance (EN 15684:2020)	Grade 0
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 3
Other certificates	FCC, ISED

iLOQ Oy • Oulu, Finland • www.iLOQ.com • iLOQ is registered trademark of iLOQ Oy •
©2024 iLOQ Oy. All Rights Reserved •