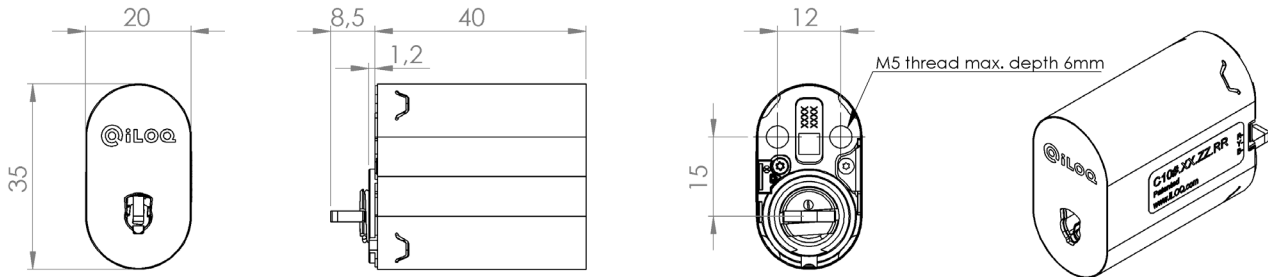


iLOQ LOCK CYLINDER C10S.1 (C10S.10)



General

The patented, award winning iLOQ S10 locking system offers advanced security and convenient access management for master-key locking environments.

The unique self-powered iLOQ C10S lock cylinder is powered by harvesting electricity from inserting of the iLOQ K10S key. Being self-powered, the iLOQ C10S cylinder eliminates work, costs, wastes and harms associated with battery powered or cabled solutions. As no batteries or electric wiring are required, the cylinders and keys are easy to install and maintain, and it is an environmentally friendly "green" solution. The communication between the cylinder and key is strongly encrypted using standardized powerful encryption methods. The mechanically identical shape of the iLOQ C10S cylinders enables flexible stocking and fast delivery. Mechanical and electronic strength are compliant with international standards.

The cylinder is programmed using a computer and iLOQ Programming device. A key is erased upon return. The cylinder can also be erased, and both may be reused, for instance in another locking system. An electronic key cannot be duplicated, and lost keys are easily blacklisted using Programming device or another key. This maintains a high level of security and ensures a long lifecycle for the security solution. The cylinder records audit trail events.

iLOQ C10S.1 and C10S.10 lock cylinders in brief

- Programmable electromechanic lock cylinder for iLOQ S10 locking system
- Self-powered: no batteries or external energy source required for the lock and key, and no need for cabling
- All iLOQ C10S lock cylinders and iLOQ K10S keys are mechanically alike
- Standard sized and mechanically compatible with existing Scandinavian lock cases, and therefore easy to install
- Secured using powerful encryption methods; unique 64bit challenge and SHA-1 computed 160bit MAC pair for key authentication
- Programmed using a PC and the iLOQ P10S.10 Programming device
- Blacklist for individual lost keys
- Access group list for key accesses
- Pre-blacklisting of lost key using a replacing key
- Connector enabling connection to S10 Online system for remote management
- Connector enabling controlling of conditional access right by external input
- Connector for real time clock enabling time restrictions on keys and event log time stamps
- Firmware updateable

Product versions

C10S.1.SB.SE.....	Lock cylinder for outdoor, with scandinavian tail piece, brushed steel finish
C10S.1.BB.SE	Lock cylinder for outdoor, with scandinavian tail piece, brushed brass finish
C10S.1.BP.SE.....	Lock cylinder for outdoor, with scandinavian tail piece, polished brass finish
C10S.10.SB.SE.....	Lock cylinder for indoor, with scandinavian tail piece, brushed steel finish
C10S.10.BB.SE	Lock cylinder for indoor, with scandinavian tail piece, brushed brass finish
C10S.10.BP.SE	Lock cylinder for indoor, with scandinavian tail piece, polished brass finish
C10S.1.SB	Lock cylinder for outdoor, with finnish tail piece, brushed steel finish
C10S.1.BB.....	Lock cylinder for outdoor, with finnish tail piece, brushed brass finish
C10S.1.BP	Lock cylinder for outdoor, with finnish tail piece, polished brass finish
C10S.10.SB	Lock cylinder for indoor, with finnish tail piece, brushed steel finish
C10S.10.BB.....	Lock cylinder for indoor, with finnish tail piece, brushed brass finish
C10S.10.BP	Lock cylinder for indoor, with finnish tail piece, polished brass finish

Memory capacity

	16 bit*	24 bit*
Amount of standard and/or conditional access right groups.....	210	140
Amount of access rights with version-data.....	1+208 standard/conditional	1+138
Amount of blacklisted lost keys.....	210	140
Pre-blacklist for replaced keys.....	256	256
Event log	512	512

* Access right capacity varies according to used locking system, 16 or 24 bit.

Technical data

Durability EN15684:2013-01 (Grades 4-6)	Grade 6, 100 000 cycles (equivalent to 200 000 openings)
Electronic key related security EN15684:2013-01 (Grades A-F)	Grade F (1000 000 000 combinations, protected communication)
Temperature range C10S.1	-35 °C...+70 °C
Temperature range C10S.10	-10 °C...+70 °C*
Optional real time clock A00.1	10 years operation time Time shifting max +/- 2 minutes per month
Ingress protection rating	IP21
Attack resistance EN15684:2013-01 (Grades 0-2)	Grade 2**
Certifications	Finnish FK, class 1** and 3** Swedish SBSC, class 4**

*C10S.10 only for indoor environments where humidity and temperature are constant

** With appropriate escutcheon