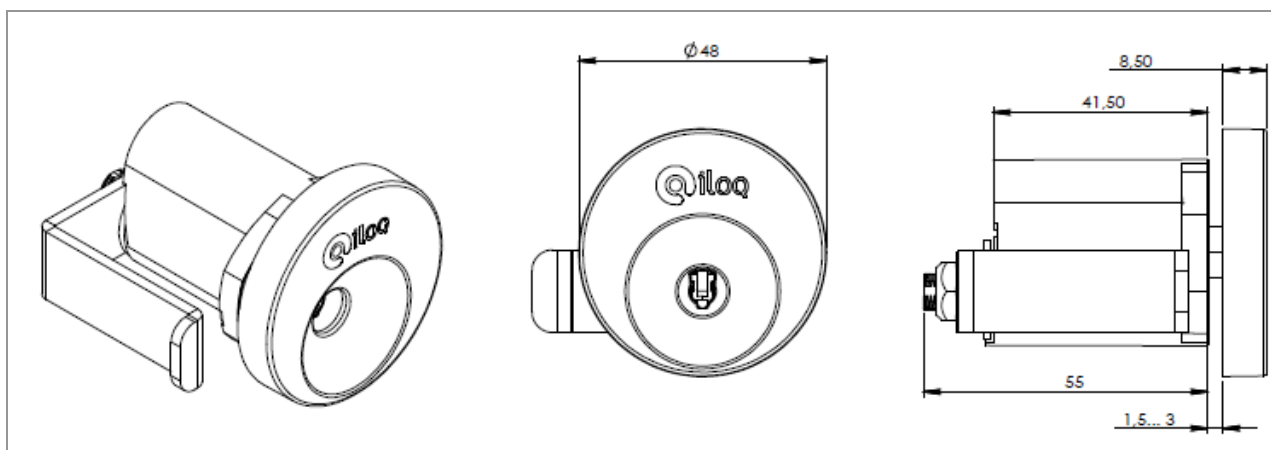


iLOQ C10S.50 CAM LOCK CYLINDER



Features

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

The iLOQ C10S.50 cam lock has been developed to control and monitor access to objects like medicine cabinets, lockers, safes and furniture. The unique self-powered iLOQ C10S.50 lock cylinder is powered by harvesting electricity from inserting of the iLOQ K10S.1 key. Being self-powered, the iLOQ C10 cylinder eliminates work, costs, wastes and harms associated with battery powered or cabled solutions. As no batteries or electric wiring are required, the locks and keys are easy to install and maintain, and it is an environmentally friendly "green" solution. The communication between the lock and the iLOQ K10 S.1 key is strongly encrypted using standardized powerful SHA-1 encryption methods. The mechanically identical shape of the iLOQ C10 cylinders enables flexible stocking and fast delivery. Mechanical and electronic strength are compliant with international standards.

The lock cylinder is programmed at the installation site using a mobile phone or computer and iLOQ P10S programming device. A key is erased upon return. The lock 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. This maintains a high level of security and ensures a long lifecycle for the security solution. The lock cylinder records audit trail of lock events.

iLOQ C10S.50 camlock cylinder in brief

- Programmable electromechanic camlock cylinder
- 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.1 keys are mechanically alike
- Easy to install, optional installation sets available
- Standard 7x7mm cam shank
- Secured using powerful encryption methods; unique 64bit challenge and SHA-1 computed 160bit MAC pair for key authentication
- Programmed using a mobile phone or computer and iLOQ P10S Programming device
- Blacklist for individual lost keys
- Access group list for key accesses
- Combined blacklist and access group capacity 128 entries
- Audit trail capacity 512-574 events
- Pre-blacklisting of lost key using new replacing key

Technical Data

prEN 15684:2007 (see Note 1)

Ten digit coding classification

	Grade, Requirements	Notes
1. Category in use (Grades 0..2)	Grade 2	See Note 2
2. Durability EN 1303:2005 (Grades 4..6)	Grade 5, >100 000 openings	
3. Door mass (Not applicable)	NA	
4. Fire resistance EN 1303:2005 (Grades 0..1)	Grade 0	
5. Safety (Not applicable)	NA	
6. Environmental resistance (Grades 0..3)	Grade 2, -10°C..+55°C, IP21	For indoor use
7. Mechanical code variations (Grades A..F)	Grade A, 0	Not individual cut
8. Electronic code variations (Grades A..F)	Grade F, 1000 000 000	64bits, unique challenge
9. System management (Grades A..I)	Grade B, 100 records without time recording	Actual 512 records without time recording
10. Attack Resistance EN 1303:2005 (Grades 0..2)	Grade 0	

Note 1), Requirements of iLOQ C10S.50 Camlock Cylinder and iLOQ K10S.1 Key is defined according to prEN 15684:2007 Building hardware – Mechatronic cylinders – Requirements and test methods. prEN 15684:2007 draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 33.

Note 2), Grade 2 include requirements and tests against bumps, hits, vibrations, high voltage, electrostatic discharge, electromagnetic field and magnetic field attacks.

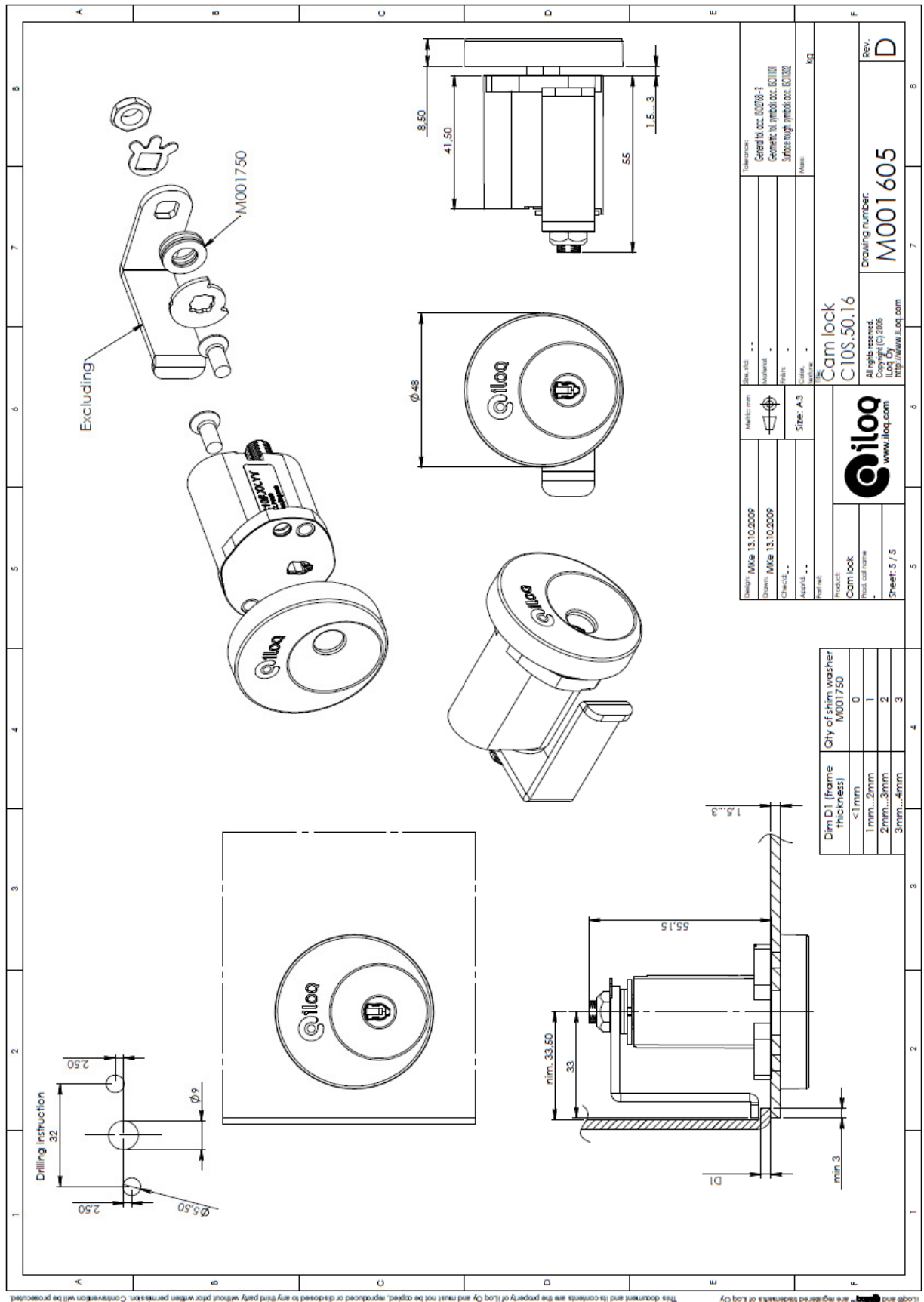
Operation

To operate the lock, insert the key entirely into the keyway and turn the key. If the lock does not open, remove the key and re-insert it into the lock, this time more slowly.

Always insert the key into the keyway gently and slowly. The electric energy is harvested for lock operations when the key is inserted into the lock. If the movement is too fast the lock is kept in the locked state. Do not use force or bend the key when inserting it into the lock.

The contact wire on the metal part of the key must be clean and smooth. If the contact wire is dirty, wipe it clean using a soft tissue. Replace the key if the contact wire is damaged.

Installation example on a metal sheet door. Door thickness 1-3mm.



Installation example with A10.18 Installation kit on a wood door. Door thickness 13-18mm.

5	6	7	8
A	B	C	D
Rev	Description	Date	Designer
A	Assembly created	28.6.2010	arvoma
B	Update door thickness and added order code for excuding parts	17.8.2010	arvoma
C	Escutcheon, fixing screws and shim plate removed	4.10.2010	kellini

Order code M001412

Order code M002242, variat number

Excluding

NOTE
pre assembled M5x12 screw
will be replaced by M001747

Door thickness 9 - 22 mm Δ B

Door drilling instruction

Part 4 length variable as the thickness of the door

5	6	7	8
A	B	C	D
Item	Dwg no.	Revision	Description 1
4	M001748	A	Pan head screw
3	M001747	A	Countersunk screw
2	M001645	A	Fixing plate
1	M001786	A	Screw
4	M5x20	2	ISO 7045
2	M5x10	2	ISO 7045-1
1	PL2 48x52	1	Standard
1	Dimension	1	BOM/QTY.

Product	Cam lock	Part no.	kg
D3, cam length	25	D4 lock center distance from wall	30
D3, cam length	30	D4 lock center distance from wall	35
D3, cam length	32	D4 lock center distance from wall	37
D3, cam length	37	D4 lock center distance from wall	42

Product	Cam lock	Part no.	kg
D1, door thickness	Item 4	Item 5	Item 5
9-14	30-35	M5x1.6	4x10
13-18	24-31	See BOM	See BOM
18-23	21-26	M5x2.5	4x16

Installation kit

Wood door, A10.18, D1=13-18

Drawing number: M001649

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