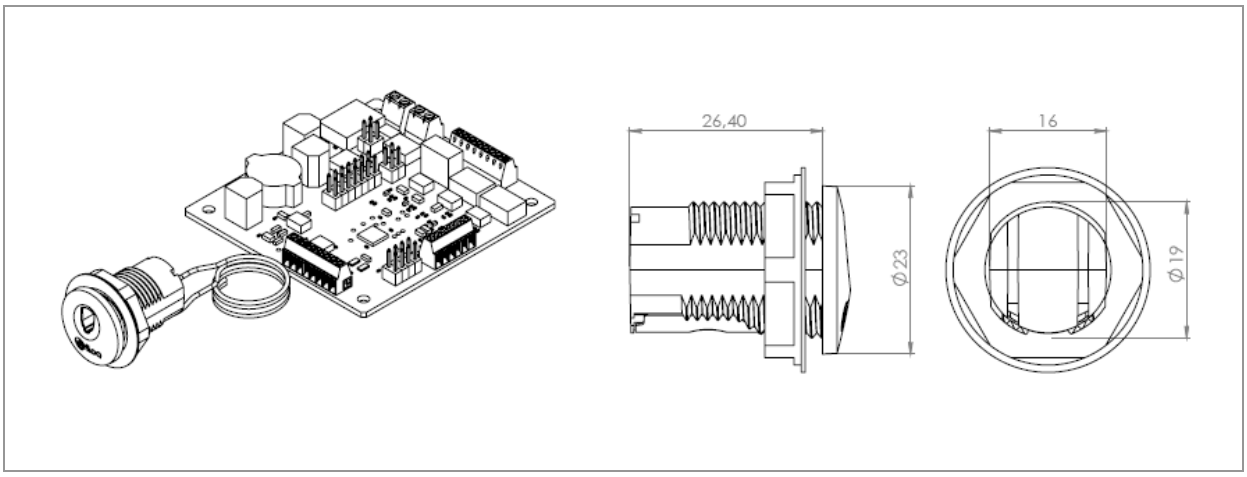
iLOQ R10S.1 KEY SWITCH



Features

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

The iLOQ R10S Key Switch has been developed for easy control of peripheral systems by the iLOQ key. The same iLOQ key used for opening doors is used as an identification object to activate additional applications like elevators, parking barriers or alarm systems. The iLOQ Key Switch consists of programmable relay output circuit board (PCB) and the Key Reader. The relay outputs are activated when the iLOQ K10S key is read.

The distance between the Key Reader and the PCB can be up to 50m, meaning the controlling sensitive relay parts can be installed in secured places inside the building. Note: Use MHS data cable between the Key Reader and the PCB.

The Key Switch is programmed using computer and iLOQ Programmer. The Key Switch records audit trail of lock events.

iLOQ R10S.1 Key Switch in brief

- Consists of programmable relay output circuit board and flush mounted Key Reader A10.42 (optional with surface mounted Key Reader A10.56 with LED indicators, product R10S.2)
- Secured using powerful encryption methods; unique 64bit challenge and SHA-1 computed 160bit MAC pair for key authentication
- Programmed using a computer and iLOQ Programmer
- Blacklist for individual lost keys
- Access group list for key accesses
- Combined blacklist and access right group capacity 128 pcs
- Audit trail capacity 251-315 latest events
- Pre-blacklisting of lost key using a replacing key
- Pre-blacklist memory for replaced keys 256 pcs
- 1-Wire® communication interface
- iLOQ 2-wire bus for RTC (real time clock) or Net Box connection
- EXT-input for controlling conditional access right by potential free contact information
- 3 relay outputs
- Push button input for activating K1 relay
- PC board can be installed to safety place

Technical Data

1. Supply voltage	12-24 VDC/VAC
2. Current consumption	50 mA/12V, 25mA/24V
3. Relay outputs	Key accepted, K1: 1 NC and 1 NO Contact * Key accepted, K2: 1 NO Contact, pulse Key not accepted, K3: 1 NO Contact, pulse
4. Relay contact ratings	1A/30 VDC 0,6A/48 VDC
5. Operating temperature range	-10..+50 ºC

* Closing and opening contacts (C, NO and NC)

The PCB has three relay outputs: K1, K2 and K3:

- The K1 relay output is for controlling the external device and it remains in its last state when the current is switched off. The K1 relay has 3 alternative operation modes:
  - Impulse. Default impulse time 8 s.
  - On/Off (Latch). The relay keeps its status until the next valid key insertion.
  - Operating as long as a valid key is in the reader.

The operation mode can be selected by the jumper switch.

- K2 relay operates when the inserted key is valid
  - Is used to indicate if the inserted key was valid (controls green LED of the A10.56 Key Reader)

- K3 relay operates when inserted key is not valid
  - Is used to indicate if the inserted key was not valid (controls red LED of the A10.56 Key Reader)

Operation

To operate the key switch, insert the key entirely into the keyway. **Do not turn the key in the key reader.**