

SMARTair® Electronic knob cylinder

Euro profile

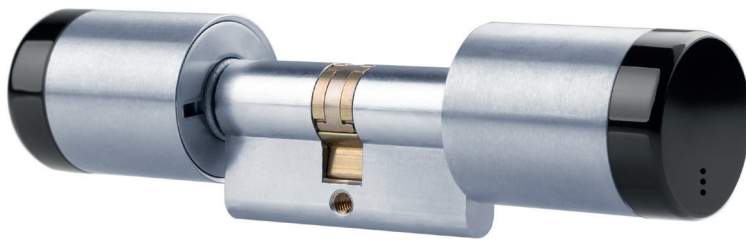
Pro Wireless Online & Openow

ASSA ABLOY













SMARTair®
Your Access. Your Control.

The global leader in
door opening solutions

A knob cylinder with a renewed design. High robustness with a contemporary design, including a sophisticated warning LED. For doors equipped with traditional mechanical mortise locks. Wooden or metallic narrow profile doors. Installation without any wiring and without the need to make any hole on the door. Just replacing the existing mechanical cylinder with a knob cylinder. Ideal for doors where the installation of the SMARTair escutcheon is more difficult or simply impossible. It can be installed even in glass doors.



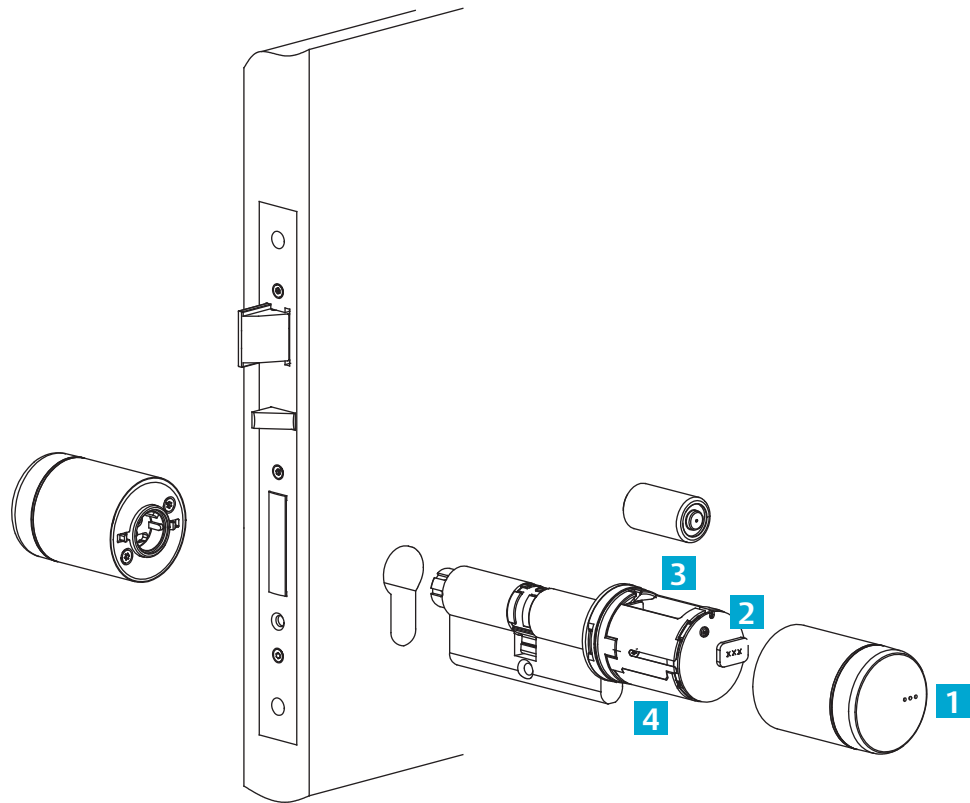
Technical data - SMARTair® knob cylinder

	Door profiles	Suitable for wooden, narrow or glass doors
	Traffic volume	Medium to high
	Exterior usage	IP56 (Extreme version) Up to 85% humidity -20°C to +70°C
	Hardware compatibility and installation	High retrofit No drilling, no wiring
	Power supply	Battery (60.000 cycles) Depending on the reading technology (MIFARE, DESFire, Etc.) Max. 2 years standby (depending on cycles per day) Type of batteries: One CR2 3V Lithium battery
	Multi-authentication	No
	Certifications	CE (EMC, R&TTE) ROHS, REACH, WEE, Durability EN15684 Class 6
	RFID technologies	13,56MHz Read & Write technologies MIFARE Classic and Ultralight, HID iCLASS, DESFire, SKIDATA
	Compatible mobile solutions	 Openow™  TESA SMARTair (only with WIRELESS system)
	System management upgradability	Compatible with all SMARTair® systems: · Standalone* · Offline/Update on card* · Offline/Update on card + Openow · Wireless + Openow SMARTair® knob cylinders can be: · Upgraded from Standalone -> Offline/Update on Card* · Upgraded from Offline/Update on Card + Openow -> Wireless + Openow Both options just changing the firmware with the programming device.

*The knob cylinder does not include the Openow or Wireless + Openow module. Therefore, it is not possible to upgrade them to Offline/Update on card + Openow or to Wireless + Openow.

Electronic Technical Characteristics

The knob includes all components: reader module, battery module and control unit.
For wireless and mobile solutions, it will also include the necessary RF module.



1 Reader Module

- 13,56MHz RFID Technology: just changing the firmware the knob cylinder will work with one of the available reading technologies: MIFARE Classic (or Ultralight), HID iCLASS or DESFire.
- Activation mode: the knob cylinder will wake up just by approaching the credential, without the need to make any previous action.
- Reading distance: 1-2 cm. Given by the identification technology.
- Warning LED: blue or red lights for different warning actions: granted access, access denied, low battery level, etc.
- Connection to the programming device: through a special cable with three pins. Necessary to initialize the knob cylinder and to make emergency openings (in case of low battery level).

2 Control unit and battery module

- Non-volatile memory.
- 3000 users and 1000 events.
- Real time clock and calendar: up to 30 time zones with five different periods on each one. 365 days calendar. Weekdays and weekends are automatically recognized. Holidays defined in the calendar. The calendar requires updates once per year. Manually (offline or update on card) or automatically (wireless). DST's automatically updated.
- Battery module: easy battery change. Maintains clock and calendar for 5 minutes without batteries. The battery status reported on every event or once per day if no events happen.
- Operation modes: Possibility to create state tables

in the software, to define automatic changes of the operation modes, in the doors, during the day:

- Standard: the door is closed and a user with authorized access must approach its credential to open the door.
- Double user: the door is closed and two users with authorized access must approach their credentials to open the door.
- Standard or ADA users: possibility to define the operation time of the electromechanical clutch to open the door, from one to 15 seconds. Standard users will have the defined time. ADA users will have double time than the specified.
- High traffic door option: for unlimited number of users in one door. Recording the last 1.000 events. Optional in the offline, update on card and wireless systems.

3 Scalable system / Upgradable firmware

There is one firmware per system and RFID reading technology. Firmware can be easily change through the programming device.

4 Mobile solutions (Openow/Remote TESA SMARTair App)

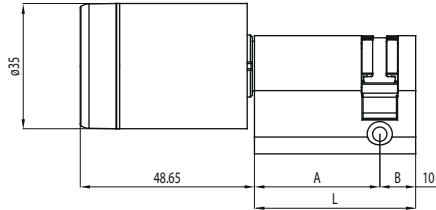
The knob cylinder must include from the factory one of the following RF modules:

- Openow module: for offline and update on card systems with Openow functionality.
- Wireless + Openow module: for wireless system with Openow and/or remote TESA SMARTair App functionality.

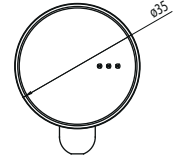
The body of the cylinder is a euro profile cylinder. It includes the electromechanical clutch that will work together with the cam. Allowing the opening of the door (or not) according to the instructions received from the control unit.

Euro profile single knob cylinder

- 15mm cam.
- $L = A+B$
- $B = 10\text{mm}$
- $A =$ Can be increased from 30mm to 90mm in 5mm steps.



Side view



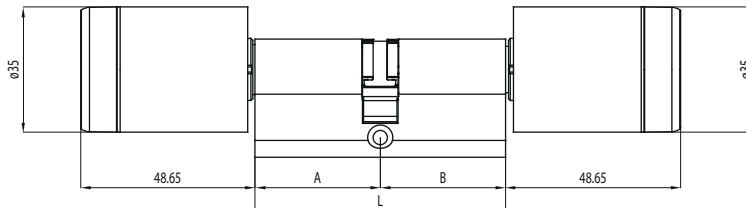
Frontal view

- The knob is always an electronic knob (including the reader, control unit and battery modules and as an option, the RF module).

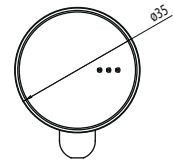
To open the door the users will need to use their credential or mobile phone.

Euro profile double knob cylinder

- 15mm cam.
- $L = A+B$
- $L =$ Maximum length is 160mm.
- A and $B =$ Can be increased from 30mm in 5mm steps.



Side view



Frontal view

- The knobs can be mechanic or electronic.
The mechanic knob will always open the door.
The electronic knob will always include the reader, control unit and battery modules and as an option the RF module. To open the door

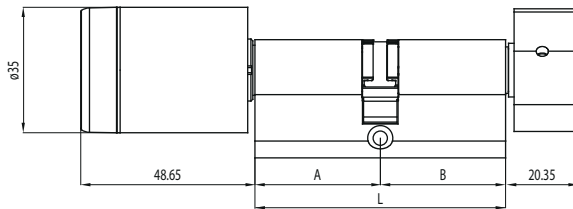
the users will need to use their credential or mobile phone.

- The double knob cylinders can have the following configurations:

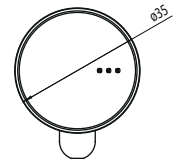
- Internal knob (Mechanic)
External knob (Electronic)
- Internal knob (Electronic)
External knob (Electronic)

Euro profile double knob-button cylinder

- 15mm cam.
- $L = A+B$
- $L =$ Maximum length is 160mm.
- A and $B =$ Can be increased from 30mm in 5mm steps.



Side view



Frontal view

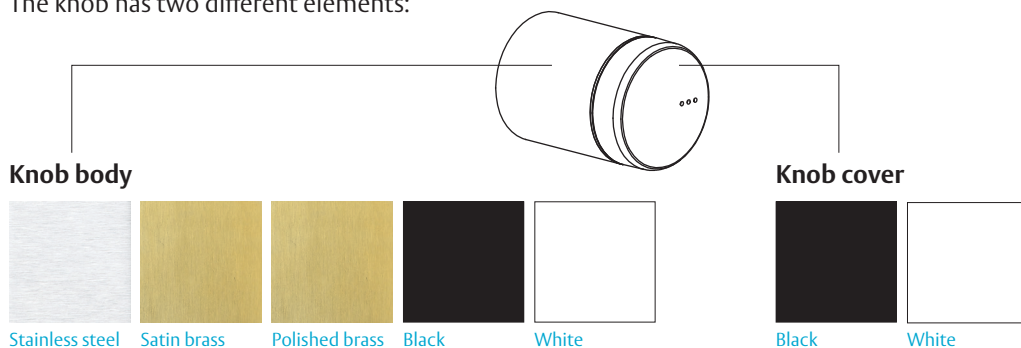
- The internal side has always a mechanic button.
The users will always open the door.

- The external side has always an electronic knob.

To open the door the users will need to use their credential or mobile phone.

Finishes

The knob has two different elements:



ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

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