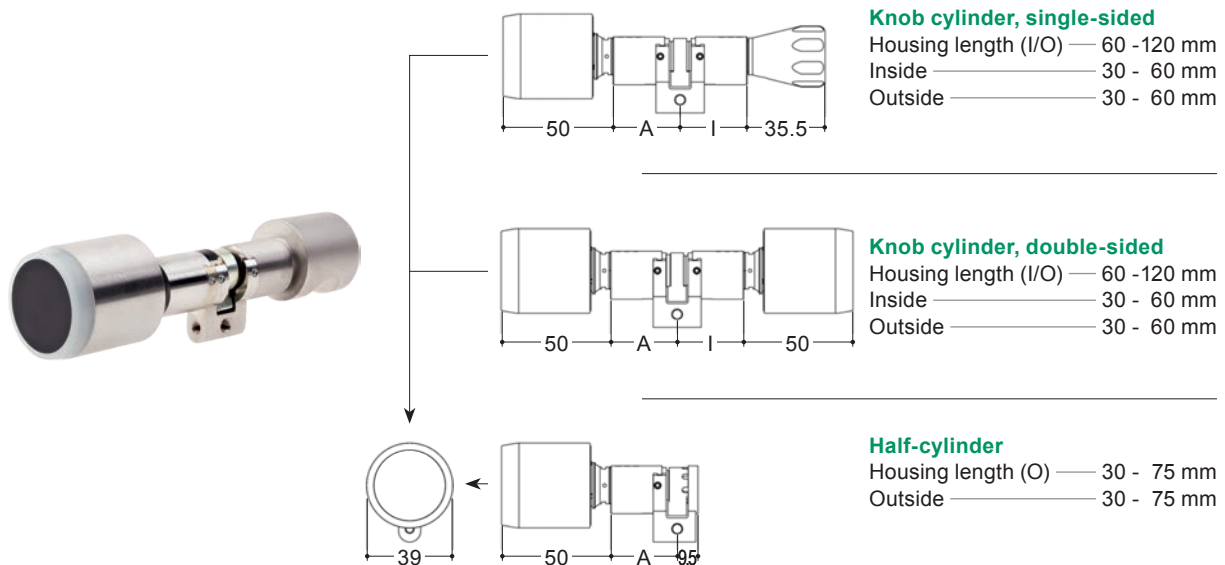


eLOCK eXpert **Swiss Round Cylinder**



Technical data (Hardware)

Power supply	Power supply 2 x 3V CR2 Lithium batteries for each electronic knob
Battery working life	Operational readiness up to 3 years, at 10 locking transactions a day Total number of locking transactions: Up to 50,000 Stand by time: Up to 5 years
Emergency opening option	With battery change tool set
Data retention during power outage	Date/time buffered for several years (Buffer battery) Unlimited buffering of event memory
Time	Accuracy under normal usage: +/- 9 minutes/year Automatic daylight saving time switching
Interfaces	NFC interface, in acc. ISO 14443A
Application area	Knob cylinders: Locks from standard doors Half-cylinders: Locks from key-switch locks and doors that are lockable only on one side
Deployment conditions	Interior areas and exterior areas that are protected from the weather Outdoor, version with Waterproof function For all variants, it must be ensured that no water penetrates into the cylinder from the locking lug.
Protection class (DIN EN 60529)	IP55 – Knob cylinder
Operating temperature	- 20 °C to + 55 °C
Storage temperature	- 20 °C to + 55 °C
Relative humidity	(operation/storage) max. 95 % without condensation
Read distance	Up to 15 mm, depending on the construction of the transponder



- Approvals, Norms and Directives** —
- › CE Conformity
 - › RED Directive 2014/53/EU
 - › RoHS Directive 2002/95/EG

Install position — Vertical in lock case with RP 22 cut-out

Profile form — Swiss Round profile, RP 22, in acc. VSSB 20200 Dimension series 3

Modularity — All cylinders have a modular construction
Standard version cylinders can be delivered pre-configured but can also be reconfigured on site or even modified retrospectively.

Options

Knob cylinder —

- › **Single-sided authorisation check** – Battery-operated knob cylinder with electronic outer knob and mechanical inner knob

- › **Double-sided authorisation check** – Battery-operated knob cylinder with electronic outer and inner knob

Versions

- › Standard
- › Waterproof

Half-cylinder — Battery-operated single-sided cylinder with removable knob

Versions

- › Standard
- › Waterproof

Mechanical knobs —

- › Cone shaped (KKN)
- › Smooth (FKN)
- › With recessed grip (GKN)

KKN:



FKN:



GKN:



Surface finishes — Stainless steel look, other finishes on request



Technical data (System)

System administration ————— OPERTIS eLOCK eXpert

Optical signalling ————— Through LEDs (red, green, blue, yellow); **acoustic** through a buzzer (Can be activated/deactivated for each cylinder through the OPERTIS eLOCK software)

Event memory in the device ————— Ring buffer the last 10,000 accesses

Coupling duration ————— 3 - 1,800 seconds, adjustable through the eLOCK eXpert software

Transponder technology ————— MIFARE® DESFire®

Memory requirements ————— ➤ 2K – S – small locking system – max. 154 locking rights
per transponder ➤ 4K – M – mid-sized locking system – max. 666 locking rights

System sizes ————— **Across the system**

- 250,000 Transponders
- 65,000 End devices
- Unlimited persons
- Unlimited end device groups (as a tree structure with a depth of ≤ 20 levels)
- Unlimited locking groups
- Unlimited person time profiles
- Unlimited end device time profiles
- Unlimited public holiday dates

Per end device

- 250,000 Transponders
- 20 End device groups (max. Depth of the tree structure)
- Unlimited locking groups
- Unlimited person time profiles
- 1 Device time profile
- 512 Public holiday dates
- Logging of the last 10,000 accesses (ring buffer)

Per transponder

- Locking rights (end devices, end device groups): 154 with small locking systems
666 with mid-sized locking systems, in acc. with the defined size of the locking system
- 6 Individual time profiles
- 1 Fixed time profile “Always”
- Unlimited public holiday dates
- 5 blacklist entries (lost transponders of the entire locking system),
for blocking on the end devices (ring buffer)
- 20 System/ battery messages (battery low) from the offline end devices (ring buffer)
- Max. 3 eLOCK eXpert locking systems (applications)

Per end device group

- 250,000 Transponders
- Unlimited locking groups

Per locking group

- Locking rights (end devices, end device groups): 154 with small locking systems
666 with mid-sized locking systems, in acc. with the defined size of the locking system
- Unlimited persons



Programming	<p>All locking rights are programmed in the OPERTIS eLOCK eXpert software. All pending programming tasks are listed in the ToDo menu.</p> <p>Data transfer can be done selectively over:</p> <ul style="list-style-type: none">▶ OPERTIS NFC Stick in combination with the OPERTIS eLOCK eXpert software (at end devices and transponders)▶ OPERTIS ToDo Card (at end devices)▶ The computer network, online (at wall scanners with online licence)▶ Wall scanners with online licence (updating the transponder)
Time profile	<p>Person time profile – Defines the validity period of the transponder</p> <p>End device time profile – Defines the timepoint (open/close or only close) for the automatic activation/deactivation of the Office mode</p> <p>One time profile consists of a maximum of 10 slots. Each slot defines a timepoint (from/till) and the corresponding weekdays and special days.</p>
Office mode	<p>Special operating mode: Serves to be able to open a door with authorisation checking, e.g. for opening a door during the working day to allow public access.</p> <p>Activation/deactivation is done through a special routine directly at the end device and is reserved for transponders for which this additional authorisation has been released.</p>
Fire service mode	<p>is activated exclusively when a fire service transponder is used.</p> <p>If an end device is in fire service mode, the door can be opened without presenting a transponder.</p> <p>Fire service mode is always indicated through a yellow light signal, irrespective of how signalling is defined in the software. Fire service mode is always activated through the authorisation check when a fire service transponder is presented.</p>
Ticket transponder	<p>the validity is limited (1 - 8,760 hours) and is activated the first time it is used.</p> <p>A ticket transponder can be released for 24 hours, for example, from the first usage. Each transponder belonging to a locking system can be programmed as a ticket transponder, through a special programming routine.</p>



Available end devices

Wall scanner

- For doors with automatic control. The wall controller sends a triggering signal, e.g. to the automatic door, car park barrier, elevator door or electric door opener
- Interior or exterior deployment, depending on components used
- The wall scanner can use the software's online functions through an online licence.
For example, transponders can be updated through a wall scanner with an online licence

Knob cylinder and half-cylinder

- Simple and quick installation
- Modular construction for extra flexibility, e.g. simple, retrospective extension
- Knob cylinders can be deployed on internal and external doors
- Large number of options, e.g. APS, with a defined position of the locking lug for doors in escape and rescue routes, FZG, with freewheel function for gear locks in escape door locks, Waterproof, for outdoor use or fire protection (120 minutes).

Lever Cylinder

- for thin-walled doors on mailboxes, control cabinets and similar closures that can be closed on one side.

Comfort system APS

- Convenient handling
- Attractive design, through the minimalist design of the antenna caps
- Can be discreetly integrated into any building design
- Opening is done by simply presenting an authorised transponder
- for internal and external fire protection doors and emergency exit and escape route doors



Ordering information (system-dependent)

Knob cylinder, single-sided

ES322.2010EX ———— CHR Knob cylinder, length 30/30 mm, single-sided authorisation

Knob cylinder, double-sided

ES322.2010BX ———— CHR Knob cylinder, length 30/30 mm, double-sided authorisation

Cylinder extensions

ES322.2001 ———— Supplement for extensions of CHR knob cylinder, 65 bis 80 mm

ES322.2002 ———— Supplement for extensions of CHR knob cylinder, 85 bis 110 mm

ES322.2003 ———— Supplement for extensions of CHR knob cylinder, 115 bis 120 mm

ES322.2004 ———— Supplement for special lengths with an overall length > 120 mm and ≤ 140 mm

Half-cylinder

ES322.2019X ———— CHR Half-cylinder, length 30 mm

Half-cylinder extensions

ES322.2005 ———— Supplement for extensions of CHR half-cylinder, from 35 bis 40 mm

ES322.2006 ———— Supplement for extensions of CHR half-cylinder, from 45 bis 55 mm

ES322.2007 ———— Supplement for extensions of CHR half-cylinder, from 60 bis 75 mm

ES322.2008 ———— Supplement for special lengths with an overall length > 75 mm

Additional equipment for knob and half-cylinders

ES322.1019 ———— Supplement for cylinders with Waterproof function

Accessories

ES0891 ———— CR2 3V Lithium battery

ES302.1186 ———— Battery change and installation tool set

ES302.1187 ———— Electronic knob spare parts set

ES302.1180 ———— Installation block for cylinder construction or adaptation