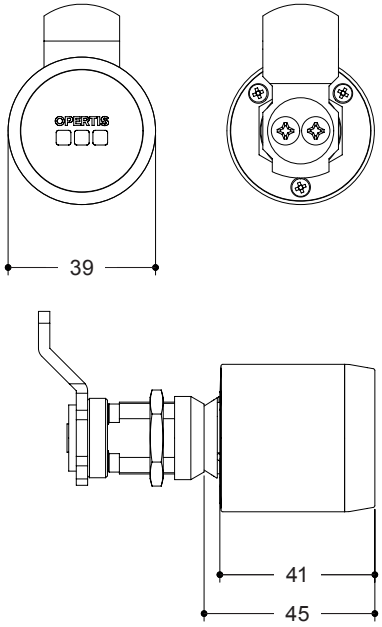
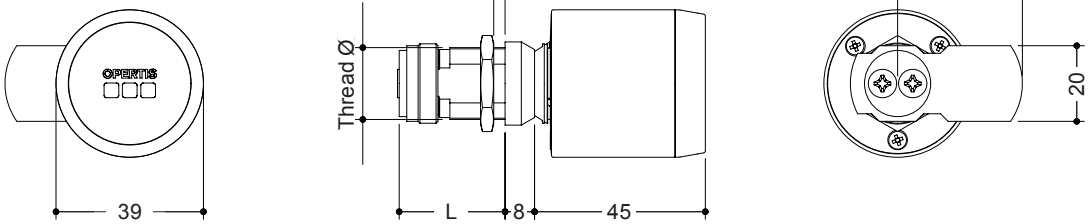
eLOCK eXpert **Lever Cylinder**



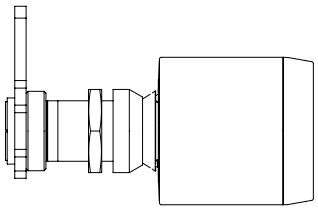
Technical data (Hardware)

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
Interface	NFC interface, in accordance with ISO 14443A
Application area	Lever cylinder for thin-walled doors on mailboxes, switch cabinets and similar locks that can be closed on one side
Deployment conditions	Interior areas and exterior areas that are protected from the weather
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

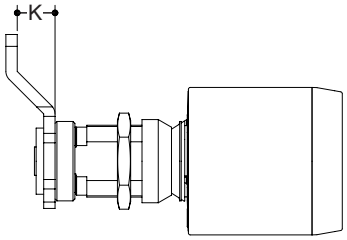
Options



Lever straight



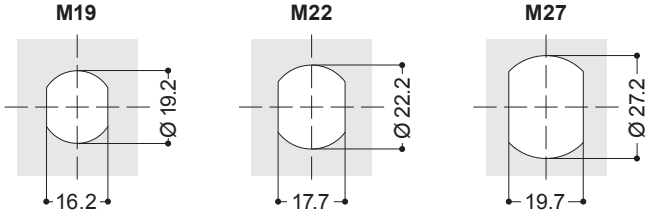
Lever cranked



Installation sizes — Lever cylinder with thread diameter M19, M22 or M27.

Thread Ø	**Installation Length L** (mm)	**max. Door Thickness TS** (mm)
M19	28	approx. 11
M22	32	approx. 12,5
M27	32	approx. 17

Mounting holes — Lever cylinder holes with anti-twist protection



Lever lengths — Available lever lengths (dimension A): on request

Lever shapes — Available lever shapes and offsets (dimension K): on request

Lever position — Lever basic position (closed): horizontal or vertical
Possible combinations of lever features 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 - 1800 seconds, adjustable through the eLOCK eXpert software

Transponder technology — MIFARE® DESFire®

Memory requirements per transponder
- 2K – S – small locking system – max. 154 locking rights
- 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

All locking rights are programmed in the OPERTIS eLOCK eXpert software.
All pending programming tasks are listed in the ToDo menu.
Data transfer can be done selectively over:

- 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

Person time profile – Defines the validity period of the transponder
End device time profile – Defines the timepoint (open/close or only close) for the automatic activation/deactivation of Office mode
One time profile consists of a maximum of 10 slots. Each slot defines a timepoint (from/till) and the corresponding weekdays and special days.

Office mode

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.
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.

Fire service mode

is activated exclusively when a fire service transponder is used. If an end device is in fire service mode, the door can be opened without presenting a transponder.
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.

Ticket transponder

the validity is limited (1 - 8,760 hours) and is activated the first time it is used.
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.

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)

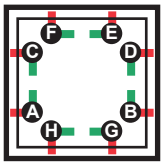
Lever cylinder, one-sided operation

ES322.1020 — Mechatronic lever cylinder System eLOCK eXpert

Required ordering information:

- Thread diameter electronic module
- Lever length
- Lever crank angle
- Lever position and direction of rotation (code according to the following table)

	Normal position (closed)	Actuated (open)	
STA	left horizontal	top vertical	A
STB	right horizontal	top vertical	B
STC	left horizontal	down vertical	C
STD	right horizontal	down vertical	D
STE	top vertical	left horizontal	E
STF	top vertical	right horizontal	F
STG	down vertical	left horizontal	G
STH	down vertical	right horizontal	H



Power supply

ES0891 — Battery Lithium CR2 3 Volt

Accessories

ES302.1186 — Tool set for battery replacement and installation
ES302.1187 — Spare parts set for electronic knob