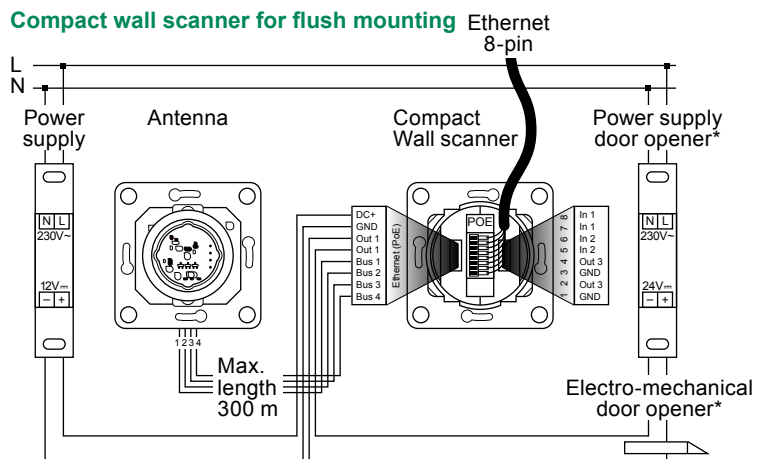
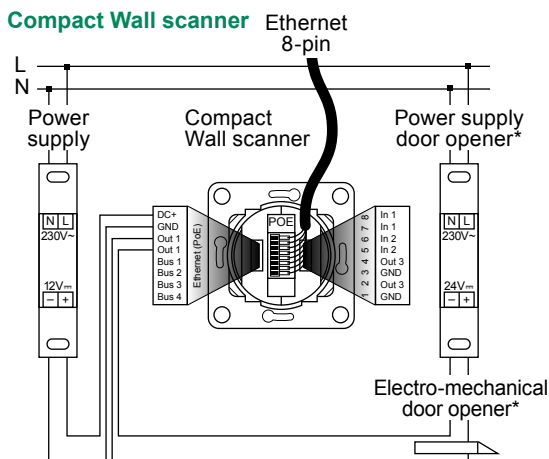
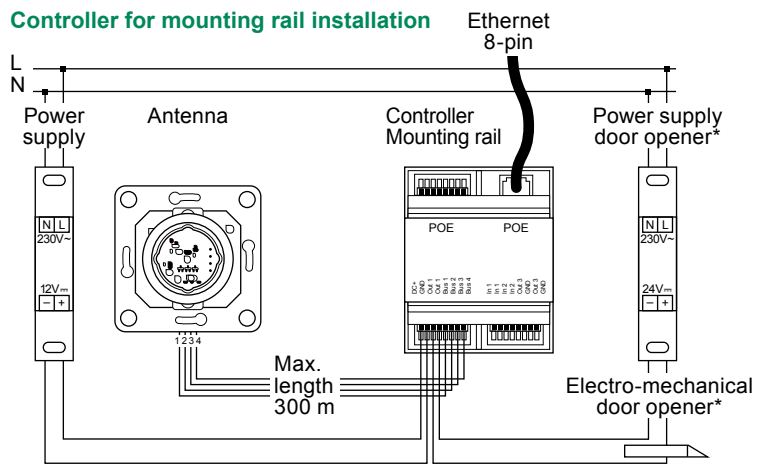


eLOCK eXpert Wall scanner



*To be supplied separately

Technical data (Hardware)

Power supply ————— 12 - 24 VDC power supply unit, min. 6 VA
Power over Ethernet (PoE) in acc. IEEE802.3af-2003

Power consumption ————— depending on the number of connected antennae
1 connected antenna: 1.8 W
2 x connected antennae 2.0 W
3 x connected antennae 2.2 W
4 x connected antennae 2.4 W

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 ————— **Controller**
– RS485 for connection of antennae
– Ethernet interface (RJ45 alternative cable connection) for LAN Connection
– Interface for connection of external relays
– Power supply interface

Antenna
– RS485 interface for connection of controller
– Inductive 13.56 MHz/NFC transponder interface



Application area	<p>Flush-mounted controller (UP) / Compact wall scanner, in combination with 80 x 80 mm covering cap, high spacing frame (option) Interior / protected exterior area IP65 surface mount housing for exterior area 55 x 55 mm covering cap for interior / protected exterior area</p> <p>Controller mounting rail (TS) Protected interior area</p> <p>Antenna, in combination with 80 x 80 mm covering cap, low spacing frame (option) Interior / protected exterior area 80 x 80 mm covering cap, IP65 spacing frame for exterior area 55 x 55 mm covering cap for interior / protected exterior area</p> <p>Siedle Antenna Protection class in acc. DIN EN 60529 IP54 (In the inbuilt frame of a Siedle Vario or Compact door intercom system)</p> <p>Compact wall scanner (see antenna and UP controller components)</p>
Output / Relays	<p>Output 1 (Out1) 1 internal relay, PhotoMOS, Closer/NO, potential-free, max. 60 VAC/DC / 1.6 A – Controller for mounting rail installation – Controller for flush mounting installation – Compact wall scanner</p> <p>Output 2 and 3 (Out2 and Out3) Switching outputs (logical outputs), each with max. 6 VDC / 30 mA for the connection of up to 2 external relays, each with 1 electro-mechanical changeover contact: – External relay for mounting rail installation max. (AC): 250 V; 6 A; 1500 VA max. (DC): 30 / 110 / 220 V; 6 / 0.2 / 0.2 A – External relay for installation on flush-mounting boxes Max. for each relay 30 W switching power, max. 110 VDC, max. 1 A</p>
Installation environment	<p>Controller for flush mounting (UP) and compact wall scanner – Build-in depth: ≥ 44 mm – Build-in diameter ≥ 53 mm or standard flush-mounting box with 60 mm mounting distance</p> <p>Controller for mounting rail installation (TS) – Mounting rail: 35 mm – Controller width: 71.6 mm</p> <p>OPERTIS Antenna – Build-in depth: ≥ 20 mm – Build-in diameter ≥ 53 mm or standard flush-mounting box with 60 mm mounting distance</p> <p>Siedle Antenna – Installation environment Siedle Vario/Compact intercom systems – Mounting distance between antennae: min. 100 mm in the 3D space</p>
Connection cables	<p>≤ 300 m between controller and antenna (Total length of all antennae connected in series)</p>
Antennae (per controller)	<p>Power supply through power supply unit – Up to 4 antennae per controller – Up to 3 additional antennae per compact wall scanner</p> <p>Power supply with PoE (possible combinations) – Flush-mounted controller: 1 Antenna – Mounting rail controller: 3 Antennae or 2 Antennae and 1 external relay or 1 Antenna and 2 external relays</p>



- Protection class** (DIN EN 60529) — IP65 – OPERTIS Wall scanner antenna with IP65 wall scanner spacing frame and 80 x 80 mm wall scanner covering cap
IP54 – Siedle antenna in Siedle frame
IP21 – OPERTIS Wall scanner antenna or compact wall scanner or flush-mounted controller with 80 x 80 mm wall scanner covering cap or 55 x 55 mm wall scanner covering cap, incl. connection with low or high wall scanner spacing frame, as required.
IP20 – Mounting rail controller, flush-mounted controller, compact wall scanner
- Operating temperature** — - 20 °C to + 55 °C (Compact wall scanner, OPERTIS antenna, Siedle antenna, 80 x 80 mm covering cap)
- 20 °C to + 50 °C (Controller)
- 20 °C to + 45 °C (55 x 55 mm covering cap)
- Storage temperature** — - 40 °C to + 85 °C (controller, compact wall scanner, OPERTIS antenna, Siedle antenna, 80 x 80 mm covering cap)
- 20 °C to + 60 °C (55 x 55 mm covering cap)
- Relative humidity** (operation/storage) – max. 95 % without condensation
- Read distance** — up to 30 mm, depending on the construction of the transponder
- Approvals, Norms and Directives** —  CE Conformity
 RED Directive 2014/35/EU
 RoHS Directive 2002/95/EG



Options

- Controller** ————— For controlling internal and external relays.
Prepared for the connection of up to 4 external relays.
– Controller for mounting rail installation
– Controller for flush mounting installation
- Antennae** ————— For connection to an OPERTIS eLOCK eXpert Controller.
– OPERTIS Antenna
– Antenna in Siedle housing (Vario or Compact intercom system)
Colours: Siedle colour schemes
- Compact wall scanner** ————— For controlling internal and external relays.
Prepared for the connection of up to 3 additional external relays.
– Controller with OPERTIS antenna for flush mounting
- Covering caps** ————— For OPERTIS eLOCK eXpert Controller and antennae.
– 80 x 80 mm Covering cap, with or without light ring
Surface: Polyamide
Colours: 99 (Pure white), 90 (Deep black), 95 (Stone grey), 92 (Anthracite grey)
– 55 x 55 mm Covering cap with light ring, for combining with commonly used switch programmes from manufacturers such as Gira, Becker, Jung, Merten, and others
Surface: Polyamide; Colours: white, black
- Spacing frame** ————— for OPERTIS eLOCK eXpert antennae, covering caps and compact wall scanner.
– Low spacing frame for surface mounting of OPERTIS eLOCK wall scanner
Antenna in combination with 80 x 80 mm OPERTIS eLOCK wall scanner covering cap
Anodised aluminium, silver colour
– High spacing frame for surface mounting of OPERTIS eLOCK wall scanner
in combination with 80 x 80 mm OPERTIS eLOCK wall scanner covering cap
Aluminium lacquered
Colours: 99 (Pure white), 90 (Deep black), 95 (Stone grey), 92 (Anthracite grey)
– IP65 spacing frame for surface mounting of OPERTIS antenna in exterior area
in combination with 80 x 80 mm OPERTIS eLOCK wall scanner covering cap
Anodised aluminium, silver colour
- External relay** ————— External relay to be controlled by OPERTIS eLOCK wall scanner
– External relay for mounting rail installation Assembly unit with 1 relay (changeover contact)
max. (AC): 6 A; 250 V; 1500 VA
max. (DC): 6 / 0.2 / 0.12 A; 30 / 110 / 220 V
– External relay for flush mounting box installation Assembly unit with 2 relays
(changeover contact)
Max. for each relay: 30 W switching power, max. 110 VDC, max. 1 A
- Power supply unit** ————— Power supply unit for powering OPERTIS eLOCK wall scanners
– Power supply unit for mounting rail installation
Output voltage 12 VDC; output current 1.0 A; output performance max. 12 W
– Power supply unit for flush mounting box installation
Output voltage 12 VDC; output current 1.0 A; output performance max. 12 W
- Online License Card** ————— Transponder for transferring an OPERTIS eLOCK eXpert Online licence to the eLOCK eXpert software, for expanding the OPERTIS eLOCK eXpert software with a Smart Office licence and an online licence.
The online licence opens up the OPERTIS eLOCK eXpert software for using the online functions for a wall scanner.



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 wall scanner 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	<ul style="list-style-type: none">➤ 2K – S – small locking system – max. 154 locking rights➤ 4K – M – mid-sized locking system – max. 666 locking rights
Operating options	<ul style="list-style-type: none">– Offline operation– Online operation
System sizes	<p>Across the system</p> <ul style="list-style-type: none">– 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 <p>Per end device</p> <ul style="list-style-type: none">– 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) <p>Per transponder</p> <ul style="list-style-type: none">– 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) <p>Per end device group</p> <ul style="list-style-type: none">– 250,000 Transponders– Unlimited locking groups <p>Per locking group</p> <ul style="list-style-type: none">– 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 the 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 for emergency exit and escape route doors or SKG*** for special anti-burglary protection

Comfort system

- 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
- Comfort system for glass doors for internal full-glass doors
- Comfort system for timber doors for internal timber doors
- APS versions for internal and external fire protection doors and emergency exit and escape route doors



Ordering information (system-dependent)

Sets

ES324.0001T ——— TS Wall scanner set

Compact wall scanner

ES324.0002U ——— Compact wall scanner UP ^{A)}

Controller

ES324.1000T ——— Mounting rail controller

ES324.1000U ——— Flush-mounted controller ^{A)}

Antennae

ES324.2000 ——— Antenna (exterior)

ES324.2001 ——— Antenna in Siedle housing (exterior)

Caps

ES0460 ——— 80 mm OPERTIS wall scanner covering cap

ES0460S ——— 80 mm OPERTIS blank wall scanner covering cap

ES004.3001 ——— 55 mm wall scanner covering cap

ES004.3002 ——— Wall scanner low spacing frame

ES0466 ——— Wall scanner high spacing frame ^{A)}

ES004.3000 ——— Wall scanner IP65 spacing frame

Accessories

ES0531T ——— External relay for mounting rail installation, single

ES0532U ——— External relay for flush-mounting box installation, double ^{A)}

ES004.4000T ——— Power supply unit for mounting rail installation 12 VDC 1.0 A, 12 W

ES004.4000U ——— Power supply unit for flush mounting box installation 12 VDC 1.0 A, 12 W ^{A)}

^{A)} Discontinued item, delivery while stocks last