



Technical Data

ELS Pro Padlock

General:

- Padlock without forced closing

Technology:

- 125 kHz

Material:

- Housing: Solid brass, surface matt chrome plated
- Bottom plate: Polyamide (PA66)
- Shackle: Steel (10B21), surface brilliant chrome plated
- Knob of cylinder: Stainless steel 1.4305

Durability:

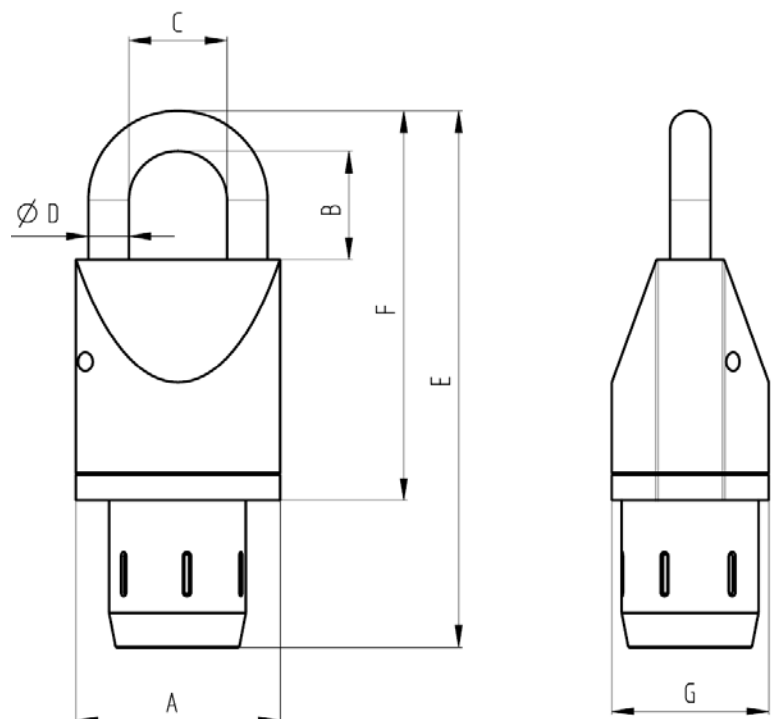
- Padlock: at least 10.000 cycles (according to DIN EN 12320, class 1)
- Cylinder: at least 100.000 cycles (according DIN EN 1303 and EN 15684 grade 6)

Mechanical strength:

- Strength of shackle:
 - Tensile strength: ≥ 15 kN (Ch. 5.5.5, DIN EN 12320)
 - Torsional strength: ≥ 200 Nm (Ch. 5.5.6, DIN EN 12320)
 - Cutting strength: ≥ 25 kN (Ch. 5.5.7, DIN EN 12320)
- Impact resistance of padlock housing and shackle:
 - tested with 5 shocks at -20°C (falling mass of 1.250 g from a height of 800 mm)

Dimensions:

- Width $A = 56$ mm
- Thickness $G = 43$ mm
- Length without knob $F = 109$ mm
- with knob $E = 150$ mm
- Shackle diameter $D = 11,1$ mm
- Inner shackle height $B = 30$ mm
- Inner shackle width $C = 27$ mm





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Power supply:

- battery pack with 2 lithium cells 3,0 Volt
- type CR2 (Li-MnO₂ system)

Battery life time and data preservation:

- at room temperature (+20°C):
- up to 50.000 locking cycles or
 - up to 3 years in case of non-use
 - For the online version, the corresponding values are 40.000 cycles or 2 years, respectively.
- multilevel alarm system in case of voltage drop
 - 10 years data preservation without battery

Time / Date:

- buffering typically 1 minute (in case of battery change)
- clock drift at room temperature: ±10 minutes/year
at -25°C and +70°C: -50 minutes/year

Signalling:

- optical signalling (red/green/blue)
- circular lighting segments in knob cover

Clutch duration:

- adjustable ranging from 1 to 30 seconds
- permanent open/close mode

Certifications of cylinder:

- VdS-BZ+ approval
 - SKG*** approval
 - certification according to EN 15684 (PIV test report 49-2/15) approval in preparation
- | | Digit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------|-------|---|---|---|---|---|---|---|---|
| ELS Pro cylinder | | 1 | 6 | B | 4 | A | F | 3 | 2 |

Certifications of padlock:

- Certified according to DIN EN 12320 (PIV test report 51-2/15):
- | | Digit | 1 | 2 | 3 | 4 |
|-----------------|-------|---|---|---|---|
| Padlock ELS Pro | | 1 | 1 | 3 | 3 |

Environmental:

- Padlock in combination with ELS Pro cylinder:
 - Temperature: -25°C to +65°C
 - Humidity: 20-96% no condensation
 - Protection class: IP65
 - anticorrosive according to class 3 DIN EN 12320 (salt spray test 96 h)
- Locking cylinder:
 - Temperature: -25°C to +65°C (class 4 EN 15684)
 - Humidity: 20-99% no condensation (class 4 EN 15684)
 - Protection class: IP66 (knob), IP65 (complete cylinder)
 - anticorrosive according to class 3 DIN EN 1670 (salt spray test 96 h)

Administration by software:

- Programming by ELS Software via USB- RF-Stick (See datasheet of ELS Software)
- Storage of max. 5 programming cards



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Events:

- ring buffer for the latest 2.000 events

Inductive transponder interface:

- reading range: up to 3 cm
- frequency: 125 kHz
- field strength in 10 m distance: < -6 dB μ A/m
- in conformity with ETSI EN 300 330

Radio interface (online/offline):

For offline programming by a DOM USB-RF-stick or for the online connection to a ELS RF-NetManager:

- reading range: typical 3m (offline) / 3m (online)
- frequency: 868 MHz (G4 / G1-Band)
- effective radiated power: ≤ 5 mW / ≤ 25 mW
- in conformity with ETSI EN 300 220
- AES-128 Bit encryption with object specific keys

Transponder types:

- DOM Standard Tag, Design Tag, Premium Tag, ClipTag
- ISO card transponder
- other types have to be checked

Storage of access authorisations in the device:

- supported transponders:
 - Hitag 1, Hitag 2, Hitag S
 - EM4100, EM4102, EM4150, EM4450
- storage of maximal 3.000 authorisations in the device
- identification of the transponders by their UID

Storage of access authorisations on the transponders

- supported transponder types:
 - solely available for Hitag S transponders
 - AES-128 Bit data-encryption

resp. virtual network:

- storage of max. 260 areal or 65 single authorisations

Temporal definition of authorisations:

- 31 freely definable time zones with three arbitrary time intervals per day
- free door time zone
- definition of holidays

Special functions:

- four-eyes principle
- office-function



These data correspond to the actual development status and are subject to change at any time without notice.