



Technical Data

DOM Tapkey Pro BLE

Variants:

- DOM Tapkey Pro BLE double cylinder (DC)
 - Even the standard version includes all mechanic and electronic security features:
 - Body and core drilling protection
 - Separate control electronic for actor in the core
- DOM Tapkey Pro BLE half cylinder (HC)
 - Outside basic length 30 mm, inside length 10 mm
 - Version "MIWE":
 - 90° cam range (adjustable)
 - Spring return mechanism for the cam
 - Cam position adjustable in 45° steps
 - Version "Haushahn" with two rear sided M4 threads
- DOM Tapkey Pro BLE EE double cylinder (emergency exit)
 - Application in escape and emergency routes (EN 179, EN 1125)
 - Return mechanism for the cam according to class R1 of DIN 18252:2018-05:
 - Cam position 6 o'clock ± 30°, dead range 12 o'clock ± 15°
 - Basic length 30/30 mm
 - Version EE-IM: Inside operation by a special mechanical key
 - Version EE-OI: Without inside knob
- DOM Tapkey Pro BLE KL (German: „Kurz-Lang“ cylinder)
 - Inside basic length 30 mm
 - Reduced outside length of 27,5 mm (see cylinder lengths)
- DOM Tapkey BLE Pro with slippery clutch
 - With knob K6 on the inside
 - Can be locked from the outside even if the inside knob is held
- DOM Tapkey Pro BLE GL (cylinder für glass doors)
 - Outside basic length 30 mm
 - Reduced inside length of 10-27,5 mm (see cylinder lengths)
- DOM Tapkey Pro BLE OI (without inside knob)
 - Blind cylinder on the inside
- DOM Tapkey Pro BLE BS (reader on both sides)
 - Basic length 30/30 mm
 - Reading of transponders also on the inside
- DOM Tapkey Pro BLE KZSV (German: Kernziehschutzverlängerung)
 - For assembly in fittings with core pulling protection
 - Protruding outer shaft by 8,5m
 - Shaft diameter 15 mm
- DOM Tapkey Pro BLE CH (22 mm Swiss round profile)
- DOM Tapkey Pro BLE 382 lever cylinder (e.g. for letter boxes)
 - Housing length 36,6 mm, for mounting holes Ø 26 × 22 mm
 - 90° turning movement, lever is blocked in end positions
 - Adjustable lever position: 4×90°
- DOM Tapkey Pro BLE 1328 half cylinder for swivelling lever handles
 - Chamfered locking cam with 45° turning movement
 - Automatic locking by return mechanism for the flattened cam
- DOM Tapkey Pro BLE 777 padlock
 - See separate data sheet



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- DOM Tapkey Pro BLE PP (privacy protection)
 - Available for all cylinder versions
 - Grade 1: Anonymised storage of all access control events
 - Grade 2: No storage of any access control events

Technology:

- 13,56 MHz (RFID / NFC)
- 2,4 GHz (BLE: Bluetooth Low Energy)

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 35.000 locking cycles or
- Up to 2 years in case of non-use or
- Up to 1,5 years for typical 10 locking cycles per day

Intelligent battery management:

- Multilevel temperature-compensated alarm system in case of voltage drop
- 10 years data preservation without battery

Time / Date:

- Clock buffering typically 1 minute (during battery change)
- Clock drift at room temperature: ± 10 minutes/year
 at -25°C and +65°C: -50 minutes/year

Clutch duration:

- 8 seconds

Signalling:

- Optical signalling by 4 multicolour LEDs
- Circular lighting segments in knob cover

Durability:

- At least 100.000 cycles (according to EN 15684 grade 6)

Cylinder length / dimensions:

- Maximum standard length 90/90 mm, higher lengths on request
- Version KL with outer length of 27,5 mm
- Version GL (glass door cylinder) with inner length from 10 to 27,5 mm
- Extendable in 5 mm steps (Glass door cylinder: inner side in 2,5 mm steps)
- For backset < 30 mm the application is to be checked

Knobs:

- Outside knob: stainless steel: Ø 37,5 mm, length 44,8 mm
- Inside knob: pot metal: Ø 32,0 mm, length 30,0 mm
- For double cylinder with two-side readability
 both knobs: stainless steel Ø 37,5 mm, length 44,8 mm



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Environmental:

- Temperature: -25°C to +65°C (grade 4 of EN 15684)
- Humidity: 20-99%, no condensation (grade 4 of EN 15684)
- Protection class: IP66 (outside knob) for all variants
IP 65 (complete Europrofile cylinder, all variants)
PIV test report 44-3/15
(no IP classification for versions 1328, 382 and HC "MIWE")
- Anticorrosive according to DIN EN 1670 grade 3 and grade 4 of EN 15684
- SO₂ corrosion test: VdS 2156-2 / DIN EN ISO 6988 (15 cycles with 0,2 l SO₂)

Approvals and certifications:

- Approved by German VdS: grade BZ+, certificate M116308
- SKG*** approval
- Not for the variants: Swiss round cylinder
Half cylinder type "MIWE"
382 lever cylinder
1328 half cylinder for swivelling lever handles
777 padlock

Approvals and certifications:

- Fire resistance test T90 (ift test reports 15-003428-PR01 and 18-002163-PR01)
Tested with two-wing steel door, refer to HPS 18-001080-PR02)
- Tested as free-wheeling cylinder according to test directive FZG, version 2010_01 of German PIV, test report 20-8/15 (not for EE version)
- Certification according to EN 15684 (PIV test reports 49-4/18)

Digit	1	2	3	4	5	6	7	8
Grade	1	6	B	4	A	F	3	2
- The two grades „F“ for the credential related security (6th digit) and „2“ for the attack resistance (8th digit)
allow according to EN 1627 the installation in burglary-resistant doors up to resistance class RC4 without separate test

Programming:

- Programming via NFC/BLE-enabled smartphones with the following prerequisites:
- Android APP as of Android 5.0 (NFC/BLE)
 - iOS APP iOS 9 or higher / iPhone 5 (BLE)
 - Programming of transponders exclusively via Android APP with NFC
 - Google ID or Tapkey ID required

Events:

- Ring buffer for the latest 1,000 events

Inductive transponder interface:

- Reading range: up to 3 cm
- Frequency: 13.56 MHz
- Field strength in 10 m distance: < 42 dB µA/m
- In conformity with ETSI EN 300 330
- Supports passive transponders (ISO 14443 A) & NFC (ISO/IEC 18092)
- Encryption: Mifare DESFire EV1/EV2/EV3: AES-128 Bit



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Bluetooth Low Energy (BLE):

- Communication range: typical 10 m
- Frequency: 2,4 GHz
- Transmission power: < 20 dBm
- Conformity to ETSI EN 300 328
- Bluetooth version: 5.0 (≥ Firmwareversion 3.2)

Encryption / security on the interfaces (NFC/BLE and backend):

- TLCP: Tapkey BLE Pro ↔ APP ↔ Tapkey Trust Service:
AES-128, CMAC (NIST 800-38B), RNG (ANSI X9.31)
- Communication to backend:
HTTPS, RSA with 4.096 bit, SHA 256, TLS 1.0 or higher

Transponder types:

- DOM Tapkey Standard Tag

Storage of access authorizations

- Access authorization on the transponder:
 - Up to 12 devices
- Access authorization on Android / iOS smartphone:
 - No limit of devices
 - No limit of users (Google or Tapkey IDs)
 - > 5 users fee-based (see license model)



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