Technical Data



Variants	 Tapkey Smart Lock double cylinder (DZ) and Tapkey Half Cylinder (HZ) Even the standard version includes all mechanic and electronic security features: Body and core drilling protection Separate control electronic for actor in the core Tapkey Smart Lock KZSV (German: Kernziehschutzverlängerung) For assembly in fittings with core pulling protection Protruding outer shaft by 8.5 mm Tapkey Smart Lock CH (22 mm Swiss round profile) Tapkey Smart Lock cH auroswise profile
	 Tapkey Smart Lock euroswiss profile
On special request	 Tapkey Smart Lock EE double cylinder (emergency exit) Application in escape and emergency routes where a well-defined cylinder cam position is required. Also available without inside knob (EE-OI).
	 Tapkey Smart Lock OI (without inside knob) blind cylinder on the inside
	 Tapkey Smart Lock BS (reader on both sides) reading of NFC Transponders and smartphones also on the inside
	 Tapkey Smart Lock 382 lever cylinder (e.g. for letter boxes) — length 31.8 mm, for mounting holes ø 26 × 22 mm — 90 ° turning movement with self-holding end positions — adjustable lever position: 4 × 90 °

Technology

> 13,56 MHz Mifare

Feature combinations

Variants	Code	Â	v / \$, / <u>4</u>	4/ð	8	>/\$	22/ E.	<u>き</u> さ
Double cylinder	DZ			✓	✓	✓	✓	✓	×
Half cylinder	HZ			×			1		1
EE (Emergency Exits)	EE				✓	×	✓	✓	
without inside knob	ОІ						1		1
Reader on both sides	BS						✓	-	×
core pulling protection	KZSV								1
Euroswiss profile	EU-CH								
Swiss round profile	СН								

✓ available X not available

Technical Data



Position of cylinder cam (only for Tapkey Smart Lock EE)	 The Tapkey Smart Lock EE has a spring driven reset mechanism to turn the cylinder cam to a fixed position. Due to the cylinder construction the reset mechanism does not work within the angular dead centers 12⁰⁰ ± 20 ° and 6⁰⁰ ± 45 °.
Power supply	 Battery 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 25.000 locking cycles or Up to 3 years in case of non-use Multilevel alarm system in case of voltage drop 10 years data preservation without battery
Cylinder length	 Maximum outer length: 80 mm Models EE & BS require at least 30 mm outer length Maximum inner length: 80 mm Models EE & BS require at least 30 mm inner length For backset < 30 mm the application is to be checked

Allowed combinations

(measurements in mm)

inside outside	10	12.5	15	17.5	20	22,5	25	27.5	30	35	4080*
27.5	×	×	×	×	×	×	×	×	 Image: A second s	✓	<
30	 Image: A second s	v	 Image: A second s	 Image: A second s	 Image: A second s	 Image: A second s	 Image: A second s	 Image: A second s	 Image: A second s	×	 Image: A second s
35	✓	 Image: A second s	✓	 Image: A second s	 Image: A second s	 Image: A second s	 Image: A second s	 Image: A second s	 Image: A second s	×	✓
4080*	1	× .	 Image: A second s			 Image: A second s	× .	 Image: A second s	× .	× .	 Image: A second s

✓.....available X.....not available

* in 5 mm steps

Technical Data



Knobs	 Outside knob: stainless steel size: ø 37.5 mm, length 44.8 mm Inside knob: pot metal size: ø 32 mm, length 30 mm For double cylinder with two-side readability Both knobs: stainless steel size: ø 37.5 mm, length 44.8 mm 							
Time/Date	 Buffering typically 1 minute (in case of battery change) 							
	 Clock drift at room temperature: ±10 minutes/year at -25 °C and +65 °C: -50 minutes/year 							
Durability	 At least 100.000 cycles (according DIN EN 1303 and EN 15684 grade 6) 							
Signalling	 Optical signalling (red/green/blue) Circular lighting segments in knob cover 							
Clutch duration	 Default: 8 seconds 							
Approvals and certifications	 Test fire resistance T90 (ift test report 15-000580) * Certification according to EN 15684 (PIV test report 49-2/15) 							
	Digit 1 2 3 4 5 6 7 8							
	Tapkey Smart Lock 1 6 B 4 A F 3 2							
	 Tested as free-wheeling cylinder according to test directive FZG, version 2010_01 of PIV (test report 20-8/15) * Fire resistance test T90 shall not apply to the Swiss round cylinder Tapkey Smart Lock CH and not for the versions Tapkey Smart Lock 382 							

Technical Data



Environmental	 Temperature: -25 °C to +65 °C (class 4 EN 15684) Humidity: 20-99 % no condensation (class 4 EN 15684) Protection class (PIV test report 44-3/15) IP66 (outside knob) for all variants IP 65 (complete Europrofile cylinder, all variants) Anticorrosive according to DIN EN 1670 class 3 and grade 4 of EN 15684 SO₂ corrosion test according to VdS 2156-2 and DIN EN ISO 6988 (15 cycles with 0.2 I SO₂) in preparation According to VdS guideline 2156-2 the Tapkey Smart Lock is designed for a weatherproof installation
Operation	 > Via Android phone (BLE & NFC); Android 4.4 or higher > Via iPhone (BLE); iOS 9 or higher > Google account 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 according to ISO 14443 A Supports NFC according to ISO/IEC 18092 Encryption: Mifare DESFire EV2: AES-128 Bit
Transponder types	 Tapkey NFC Tag Tapkey NFC Card Tapkey NFC Sticker Tapkey NFC Wristband
Storage of access authorizations	 Android phones (BLE & NFC) and iPhone (BLE): unlimited permissions NFC Transponders: up to 12 permissions

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