tapkey

DOM

Technical Data	DOM Tapkey Guard

Guard Versions:

Guard Slimline Width: 40 mm		**Guard Wideline** Width: 56 mm
• Length:	253.0 mm	
• Height:	20.0 mm	Outside cover, without handle
	11.5 mm	Inside cover, without handle

Guard Compact Versions:

Guard Compact Slimline Width: 40 mm		**Guard Compact Wideline** Width: 56 mm
• Length:	133.0 mm	Outside covers and inside cover Slimline, without cylinder rose
	72.0 mm	Cylinder rose Slimline
	56.0 mm	Cylinder and handle rose Wideline
• Height:	20.0 mm	Outside cover, without handle
	11.5 mm	Inside handle covers, without handle
	8.0 mm	Cylinder roses

Technology:

- 13.56 MHz Mifare
- 2.4 GHz (BLE: Bluetooth Low Energy)

Interaxis dimension:
(distance handle ↔ cylinder)

• Guard:	Between 55 and 92 mm	
• Guard Compact:	≥ 64 mm	Slimline
	≥ 56 mm	Wideline

Application:

- Electronically controlled handle on the outside
- Interior handle is always operable

- Suitable for doors with high frequency of use which are subject to frequent violent usage
- Category of use: grade 4 according to EN 1906 / prEN 16867

Installation:

Different installation types
- Screwing through the door from the inside
- Screw-on installation

Door leaf thickness:

- 36-106 mm, increment in 10 mm steps

Fixation points:

- Adjustable by vertically movable threaded sleeves or screws
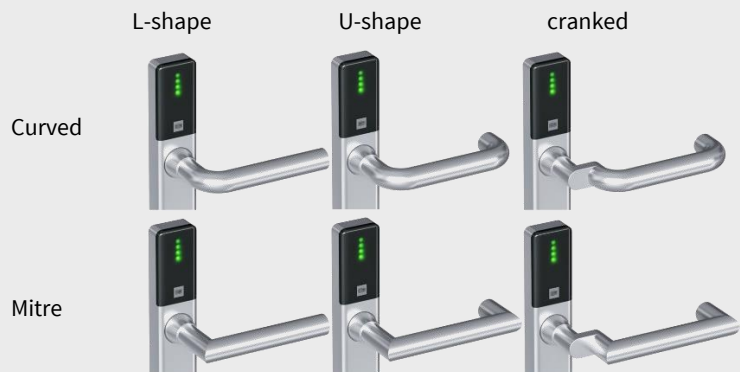
- Guard:
  - Upper fixation point: min. 65.0 mm max. 84.0 mm
  - Middle fixation point: min. 21.5 mm max. 25.0 mm
  - Lower fixation point: min. 112.0 mm max. 139.0 mm

- Guard Compact:
  - Upper fixation point: min. 65.0 mm max. 84.0 mm
  - Middle fixation point: 21.5 mm
  - Wideline: Horizontal distance of fixation points 38.0 mm
  - Slimline: Vertical distance of fixation points 50.0 mm

Backset:

- Slimline versions (width of escutcheon 40 mm):
  For backset < 25 mm the application has to be checked

- Wideline versions (width of escutcheon 56 mm):
  For backset < 35 mm the application has to be checked

Handle types:

Max. dimensions: Height (incl. cover) x Width (only handle)

	L-shape	U-shape	cranked
Outside	86.3 x 130 mm	86.3 x 140 mm	97.8 x 160 mm
Inside	78.3 x 130 mm	78.3 x 140 mm	89.8 x 160 mm

- Handle can be adjusted to DIN-L/DIN-R doors on site

Handle spindle:

- 9 mm (with adapters 7 / 8 / 8.5 / 10 mm are possible)

Handle movement:

- Maximum angle: 45°, upward handle movement possible

- Rest position can be corrected by ±7°

Durability:

- ≥ 200,000 cycles (grade 7 of EN 1906 and prEN 16867)

Environmental influences:

- Temperature: -25°C to +65°C
- Relative humidity: 20% to 99%, no condensation

- Anticorrosive according to DIN EN 1670 class 3
  (salt spray test, 96 hours), grade 3 according to EN 1906

- Protection class: IP 54

- Environmental resistance according to grade 4 of prEN 16867 (in preparation)

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Approvals and certifications:

- Suitable for doors in escape in panic routes according to EN 179 and EN 1125
- Suitable for fire protection and smoke protection doors T90 (according to grade B of EN 1906 and prEN 16867)

prEN 16867	1 Category of use	2 Durability	3 Door mass	4 Fire & smoke doors	5 Safety	6 Environ-mental resistance	7 Credential related security	8 Security: Attack resistance	9 Security: Related to EN1906
grade	4	7	-	B	1	4	D	0	-

EN 1906	1 Category of use	2 Durability	3 Door mass	4 Fire & smoke doors	5 Safety	6 Corrosion resistance	7 Security: Attack resistance	8 Execution type	-
grade	4	7	-	B	1	3	1	A	

Surface and colours:

- All visible metal parts: satin stainless steel
- Plastic cover: jet black(similar RAL 9005)

Signalling:

- Optical signalling by 4 multicolour LEDs (moving light effect)
- Additional acoustic signalling (can be disabled)

Clutch duration:

- 8 Seconds

Power supply:

- 2 pcs. Lithium AAA cells, 1.5 Volts
- Recommended battery: Energizer Ultimate Lithium
- Correct operation is not guaranteed for other battery types

Battery life time and data preservation:

At room temperature (+20°C):
- Up to 25.000 looking cycles <u>or</u>
- Up to 1.5 years stand-by time in case of non-use <u>or</u>
- Up to 1 Year by typical 10 locking cycles per day

Intelligent battery management:
- Multilevel temperature compensated battery warning system
- 10 year data preservation without battery

Time / Date:

- Buffering during battery change: typically 1 minute
- Clock drift at room temperature: ±10 minutes/year
                                    at -25°C and +70°C: –50 minutes/year

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

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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: AES-128 Bit
Bluetooth Low Energy (BLE)	• Communication range: up to approx. 10 m • Frequency: 2.4 GHz • Transmission power: < 20 dBm • Conformity to ETSI EN 300 330
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 4.096bit, SHA 256, TLS 1.0 or higher
Transponder types:	• DOM Tapkey Standard Tag
Storage of access authorizations	*Access authorization on 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 licence model)

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