



Technical Data

DOM Tapkey Guard

Guard Versions:



Guard Slimline Width: 40 mm

- Length: 253.0 mm
- Height: 20.0 mm
11.5 mm

Guard Wideline Width: 56 mm

- Outside cover, without handle
- Inside cover, without handle

Guard Compact Versions:



Guard Compact Slimline Width: 40 mm

- Length: 133.0 mm
72.0 mm
56.0 mm
- Height: 20.0 mm
11.5 mm
8.0 mm

Guard Compact Wideline Width: 56 mm

- Outside covers and inside cover Slimline, without cylinder rose
- Cylinder rose Slimline
- Cylinder and handle rose Wideline
- Outside cover, without handle
- Inside handle covers, without handle
- 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



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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:

	L-shape	U-shape	cranked	ball
Curved				
Mitre				
Max. dimensions: Height (incl. cover) x Width (only handle)				
Outside	86.3x130 mm	86.3x 40 mm	97.8x160 mm	114.3x80.6 mm
Inside	78.3x130 mm	78.3x140 mm	89.8x160 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 $\pm 7^\circ$

Durability:

- $\geq 200,000$ 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 (PIV test report no. 44-7/19)
- Environmental resistance according to grade 4 of prEN 16867



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Approvals and certifications:

- Suitable for doors in escape in panic routes
 - Tested as emergency exit device for escape routes according to EN 179, Test report 123000167.01/02 of MPA NRW (Germany)
Classification according to EN 179:2008: 3-7-7-B-1-3-5-2-A-B
 - Test of compatibility to panic exit devices operated by a horizontal bar in preparation (according to EN 1125)
- Suitable for fire protection doors T90 (grade B of EN 1906 and prEN 16867)
 - Tested with single-leaf T90 wooden door with closed steel frame (ift test report no. 18-004004-PR01)
 - Tested with single-leaf T90 sheet steel door with closed steel frame (ift test report no. 18-004004-PR02)
 - Tested with single-leaf T30 aluminium tubular frame door (test report in preparation)
- Hardware performance sheet (HPS) for building hardware according to EN 16035 (ift no. 20-001125-PR01 / KB-G10-UZ05-de-01)

- Tested according to prEN 16867 (PIV test report no. 57-4/19)

prEN 16867	1 Category of use	2 Durability	3 Door mass	4 Fire & smoke doors	5 Safety	6 Environmental resistance	7 Credential related security	8 Security: Attack resistance	9 Security: Related to EN1906
grade	4	7	-	B	1	4	D	0	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 locking cycles or
- Up to 1.5 years stand-by time in case of non-use or
- 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



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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

Inductive transponder interface:

- Reading range: up to 3 cm
- Frequency: 13.56 MHz
- Field strength in 10 m distance: < 42 dB μ A/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 300 328

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

- TLCP: Tapkey BLE Pro $\leftrightarrow$ APP $\leftrightarrow$ 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.