Technical Data	ENiQ 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 and frequent violent usage
- Category of use: grade 4 according to EN 1906 / EN 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

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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

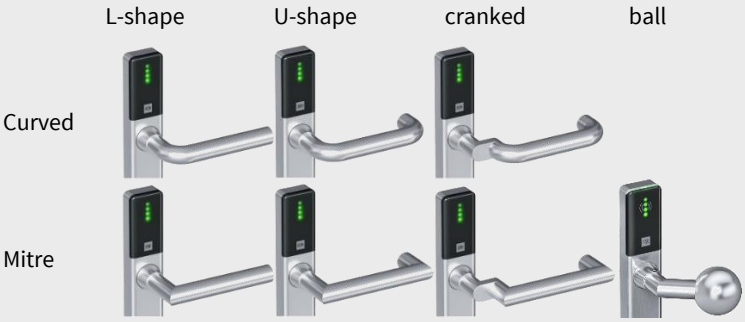
- Guard Compact:
  - Upper fixation point: min. 65.0 mm max. 84.0 mm
  - Middle fixation point: 21.5 mm
  - Wideline: Horizontal distance of fixation points 38.0 mm
  - Slimline: Vertical distance of fixation points 50.0 mm
  - Adapter plate for threads with 50 mm distance available

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)

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 ±7°

Durability:

- ≥ 200.000 cycles (grade 7 of EN 1906 and EN 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)
- Not suitable for permanent outdoor use

- Environmental resistance according to grade 4 of EN 16867

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Approvals and certifications:

- Technical approval (abZ) granted by DIBt (German technical authority), approval no. Z-6.100-2554
  - Suitable for the usage in single- and double-leaf fire and smoke control doors made of wood, aluminium and steel
  - Suitable for the usage in escape and emergency routes

- 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 use on fire resistance and smoke controlled doors, grade B according to EN 16867 (PIV test report no. 57-4/19)
- Hardware performance sheet (HPS) for building hardware according to EN 16035 (ift no. 20-001125-PR01 / KB-G10-UZ05)

- Tested according to EN 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 Environ-mental 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: signal white (similar RAL 9003)
  jet black (similar RAL 9005)
  graphite grey (similar RAL 7024)

Signalling:

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

Clutch duration:

- Adjustable ranging from 1 to 30 seconds
- Permanent open/close mode, Office function

Power supply:

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

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Battery life time and data preservation:

At room temperature (+20°C):
- Up to 70.000 looking cycles or
- Up to 3 years stand-by time in case of non-use or
- Up to 2.5 years by typical 10 looking 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-with the following prerequisites:
- ENiQ App (NFC/BLE) (see datasheet ENiQ App)
- ENiQ Software via BLE Stick
  (see separate datasheet of ENiQ AccessManagement Software)
- Storage of max. 5 programming cards

Events:

- Ring buffer for the latest 2.000 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)

- Encryption: Mifare DESFire EV1/EV2/EV3: AES-128 Bit
  Mifare Classic: Crypto-1
- Additionally AES-128 Bit encryption with object specific keys

Bluetooth Low Energy (BLE):

- Communication range: typical 15 m
- Frequency: 2.4 GHz
- Transmission power: < 20 dBm
- Conformity to ETSI EN 300 330

- Key exchange: Curve25519–256 Bit (elliptical curve)
- Encryption: XSALSA20–256 Bit
- Signature / Authentication: Poly1305-128 Bit
- Bluetooth version: 5.0 (≥ Firmwareversion 4.3)

Transponder types:

- DOM Standard Tag, Premium Plus Tag, ClipTag
- ISO card transponder
- Other types have to be checked

Storage of access authorisations in the device:

- Supported transponders:
  - Mifare DESFire EV1/EV2/EV3 2k, 4k, 8k
  - Mifare Classic 1k, 4k
  - Mifare Plus S/X 2k, 4k
  - Mifare Ultralight / Ultralight C

- Storage of maximal 5.000 authorisations in the device
- Identification of the transponders by their UID or by other unique data

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Storage of access authorisations on the transponders:

- Supported transponder types:
  - Mifare DESFire EV1/EV2/EV3 2k, 4k, 8k
  - Mifare Classic 1k
- Other data on the transponder:
  - „Blacklist“ with blocked transponders
  - Authorisation period, weekly schedule at the device

Weekly and day’s schedules:

- Storage of max. 256 weekly / day’s schedules per device
- Each weekly schedule points to 10 arbitrary day’s schedules (7 week days and 3 special days for holidays):

1	2	3	4	5	6	7	8	9	10
Mon	Tue	Wed	Thu	Fri	Sat	Sun	holiday / vacation		
DS1	DS2	DS3	DS4	DS5	DS6	DS7	DS8	DS1	DS2

- Each day’s schedule consists of 96 time slots of 15 minutes, in each case definable as authorised or unauthorised:

0^{00}	1^{00}	2^{00}	3^{00}	...	20^{00}	21^{00}	22^{00}	23^{00}
				...				

- access rights of the weekly / day’s schedules:
  - # 0: no access (unauthorised)
  - # 1: access with no time-limits, active special functions may limit access
  - ## 2-254: freely definable
  - # 255: access with no time-limits, active special functions are ignored
- Permanent-open and permanent-close weekly schedules
- Office function

Holidays:

- Storage of maximum 256 holidays or vacation periods per device
- Definition of 3 different kinds of holidays/vacations
- Begin / end as from / to date

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