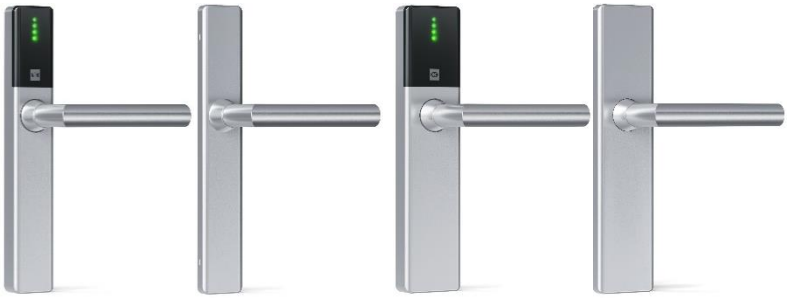
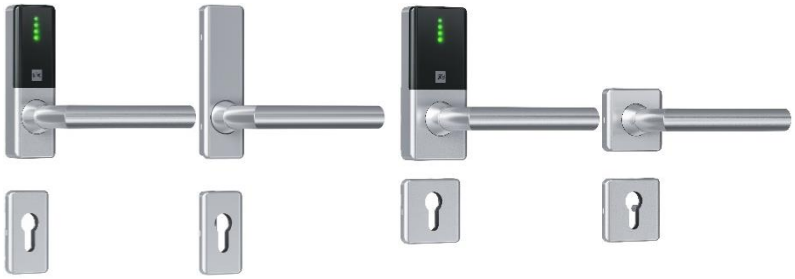
Technical Data	ENiQ Guard®

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 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

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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:

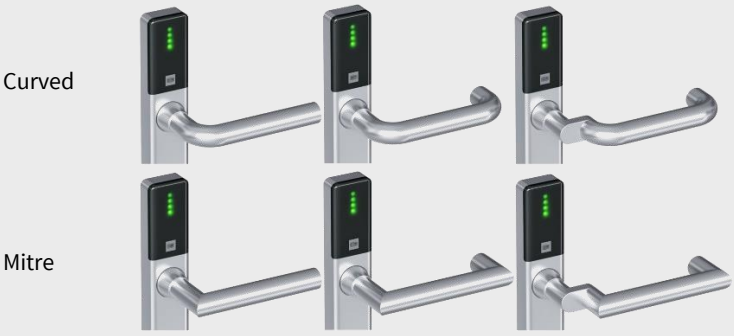
- Upper fixation point:	min. 65.0 mm	max. 84.0 mm
- Middle fixation point:		21.5 mm
- Wideline:	Horizontal distance of fixation points	38.0 mm
- Slimline:	Vertical distance of fixation points	50.0 mm

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	86.3 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 (in preparation)
- 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: 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

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

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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)
	• Encryption: Mifare DESFire EV1 / EV2: AES-128 Bit Mifare Classic: Crypto-1 • Additionally AES-128 Bit encryption with object specific keys
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
	• Key exchange: Curve25519–256 Bit (elliptical curve) • Encryption: XSALSA20–256 Bit • Signature / Authentication: Poly1305-128 Bit
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 / DESFire EV1 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
Storage of access authorisations on the transponders:	• Supported transponder types: - Mifare DESFire EV1 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