



ELS Guard

Guard Versions:



Guard Slimline Width: 40 mm Guard Wideline Width: 56 mm

• Length: 253.0 mm

• Height: 20.0 mm 11.5 mm Outside cover, without handle 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 Slim-				
			line, 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:

• 125 kHz Hitag

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

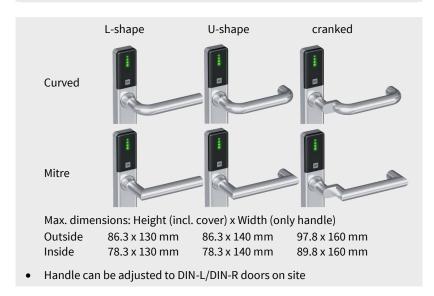
• Guard Compact:

- 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:



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	1	-	В	1	4	D	0	-
EN 1906	1 Category of use	2 Durability	3 Door mass	4 Fire & smoke	5 Safety	6 Corrosion resistance	7 Security: Attack	8 Execution type	-
grade	4	7	-	doors B	1	3	resistance	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

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 50.000 looking cycles or
- Up to 4 years stand-by time in case of non-use
- Up to 3.5 years 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 RF 868 MHz with the following prerequisites:

- ELS mobile or ELS Software, with USB-RF-Stick (see separate datasheets of ELS mobile and ELS 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 125 kHz Frequency: Field strength in 10 m distance: < -6 dB μ A/m

In conformity with ETSI EN 300 330

Radio interface:

For offline programming by a DOM USB-RF-stick or for the online connection to an ELS RF-NetManager:

Communication range: typical 3m (offline) / 10m (online) 868 MHz (G4 / G1 band) Frequency: \leq 5 mW $/ \leq$ 25 mW

Effective radiated power:

Conformity to ETSI EN 300 220

Key exchange: Curve25519-256 Bit (elliptical curve)

Encryption: XSALSA20-256 Bit

Signature / Authentication: Poly1305-128 Bit

Transponder types:

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

Storage of access authorisations in the device:

- Supported transponders:
 - Hitag 1, Hitag 2, Hitag S
 - EM4100, EM4102, EM4150, EM4450
- Storage of maximal 3.000 authorisations in the device
- Identification of the transponders by their UID

Storage of access authorisations on the transponders:

- Supported transponder types:
 - Solely available for Hitag S transponders
 - AES 128 Bit data encryption

resp. virtual network

Storage of max. 260 areal or 65 single authorisations

Temporal definition of authorisations:

- 31 freely definable time zones with three arbitrary time intervals per day
- Free door time zones
- Definition of holidays

Special functions:

- Four-eyes principle
- Office function