DIN EN 1300:2024-01 (E)

Secure storage units - Classification for high security locks according to their resistance to unauthorized opening

Contents

Page

European foreword 4

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Classification 13

5 Requirements 13
5.1 General requirements 13
5.1.1 General 13
5.1.2 Requirements for all classes 13
5.1.3 Class D HSL 13
5.1.4 Mechanical key operated HSL 14
5.1.5 Lift heights for mechanical key locks 14
5.1.6 Electronic HSL 14
5.1.7 Electronic tokens 16
5.1.8 Firmware updates 17
5.2 Security requirements 17
5.2.1 Usable codes 17
5.2.2 HSL having over ride feature 17
5.2.3 Manipulation resistance 17
5.2.4 Destructive burglary resistance 18
5.2.5 Spying resistance 18
5.2.6 Electrical and electromagnetic resistance 18
5.2.7 Physical environmental resistance 19
5.2.8 Temperature resistance 19
5.3 Reliability requirements 21

6 Technical documentation 22

7 Test specimens 22

8 Test methods 23
8.1 General 23
8.1.1 General 23
8.1.2 Evaluation by inspection 23
8.1.3 Test procedure 23
8.2 Security tests 25
8.2.1 Usable codes 25
8.2.2 Manipulation resistance 25
8.2.3 Destructive burglary resistance 28
8.2.4 Spying resistance 28
8.2.5 Electrical and electromagnetic resistance 29
8.2.6 Physical environmental resistance 30
8.2.7 Temperature resistance 32
8.3 Reliability testing 32
8.3.1 Cycling 32
8.3.2 Code changes 33

8.3.3 Dynamic code input of mechanical combination HSL 33

9 Test report 34

10 Marking 34

Annex A (normative) Parameters for installation and operation instructions 35

Annex B (normative) Determination of manipulation resistance due to the design requirement 37

B.4.2 Sniffing the code via the data cable connection 44
B.4.3 Sniffing the code via key logger 45
B.4.4 Replay attack via the cable connection 46
B.4.5 Brute force attack 47
B.4.6 Side channel attacks 48
B.4.7 Lock spiking 49
B.4.8 Mechanical bypassing 49
B.4.9 Optical code spying 49

Annex C (informative) Example of manufacturer's declaration 50

Annex D (informative) Typical locking device dimensions 52

Annex E (normative) Determination of burglary resistance due to the design requirement 53

Annex F (informative) Example of firmware declaration 54

Annex G (informative) A-deviations 55

58Bibliography .....