

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
58	Bibliography	