

Amendment**Published/Sign:**
2018-10-10 / MM
Replace:**Requirements**

Document	Edition	Title
SSF 1091	Edition 1 2015- 04 - 09	Mechatronic cylinders – Burglar resistance – Requirements and test methods

Background:

- 1) In order to be classified according to SS-EN 156 84 "4.8 Attack resistance" based on SSF 1091: 2015 testing, the mechatronics cylinder must also be tested according to the requirement "6.5.8 High-voltage attack" based on SS-EN 156 84, "4.8.9 Increased voltage attack transmission
- 2) Section 5.4 is supplemented with requirement 5.4.8
- 3) Table 1 - Requirements for the mechatronic cylinder are supplemented with 5.4.8
- 4) Section 6.8 is supplemented with test 6.5.8

Change of SSF 1091:**5.4 Electrically controlled obstruction mechanisms:****5.4.8 Attack with increased Voltage**

Mechatronic cylinder and its electronic key shall withstand higher voltages than the normal DC voltage specified by the manufacturer. The mechatronic cylinder and the electronic key may lose their function temporarily or permanently during the attack due to errors encountered in the equipment, software or data storage. The cylinder should not open during the attack.

Testing is performed according to 6.5.8.

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Cylinder function	Unit	Level 1	Level 2	Level 3	Level 4	Level 5
5.4.1 Minimum number of electrically applicable code combinations	Number	10 ⁵	10 ⁸	10 ⁸	10 ⁸	10 ⁹
5.4.2 Theoretical manipulation time of electric code combinations	Hours	No requirement	6	6	24	48
5.4.3 The electric code's read distance without manual activation	Metres	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1
5.4.4 The electric code's read distance with manual activation	Metres	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
5.4.5 Cryptographic key length Level according to SSF 1075	Number of bits	48	48	48	50	100
	Level	3	3	3	3	4
5.4.6 Replay protection Level according to SSF 1075	Level	3	3	3	3	4
5.4.7 Authentication Level according to SSF 1075	Level	3	3	3	3	4
5.4.8 Attack with increased Voltage	Voltage	No requirement	Specified Voltage + 6 Volt at maximum 600 mA	Specified Voltage + 6 Volt at maximum 600 mA	Specified Voltage + 6 Volt at maximum 600 mA	Specified Voltage + 48 Volt at maximum 600 mA

Note: Other requirements 5.1 to 5.9.5 according to Table 1 are unchanged