CESentry electronic cylinders

Half cylinders
EB851 | EB951
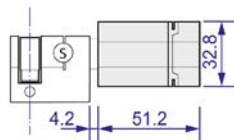# EB651

EB851 | EB951 EU profile cylinder

EB651 Swiss round cylinder
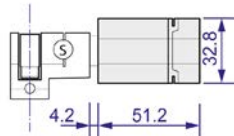
Dimensions

EU profile cylinder
EB851
EB951

32.8

4.2 51.2

31.2

(S) Exterior side (locking side)

Swiss round cylinder
EB651

32.8

4.2 51.2

31.2

(S) Exterior side (locking side)

Extensions

						Exterior side (S) / all dimensions in mm					
						30.5	35.5	...	65.5	...	90.5
						Max. axial dimension 90.5 mm					
						Extensions in 5 mm increments					
Max. total length 100 mm											

Classification according to DIN EN 15684:2021-05

Property	Utilisation category	Lasting functionality	Fire/smoke resistance	Environmental stability	Mechanical key related security	Authorisation security	System management	Attack resistance
Classification of the electronic cylinder	1	6	B*	4	0	D	1/3**	0/D***

NOTE: Data in brackets () = in testing/preparation

* (Fire-/smoke resistance)	B	For use on fire-resistant and smoke-resistant doors (T120)
** (System management)	1	For variants with deactivated storage of access events
	3	For variants with activated storage of access events
*** (Attack resistance)	0	No requirement
	D	Burglar-resistant options

Technical data

Article designation	EB851 │ EB951 │EB651
Use	The electronic cylinder provides authorised opening and closing of doors and locks with profile cylinder locks. Other locks that are not actuated with profile cylinders (e.g. cam cylinders, padlocks, etc.) are also available.
Versions	EB851 │ EB951 — EURO electronic cylinder, E knob exterior, half cylinder EB651 — CH electronic cylinder, E knob exterior, half cylinder
Fire resistance rating	120 minutes in accordance with DIN EN 1634-1
Finishes	Stainless steel finish and black

Environmental conditions/service life

Protection class	IP65
Temperature range	-25°C to +65°C at 0 to 95% rH non-condensing
Prohibited atmospheres	Not suitable for use in corrosive atmospheres (chlorine, ammonia, lime water)
Service life	100,000 cycles in accordance with DIN EN 15684, grade 6

Power/voltage supply

Batteries	1x CR123A, lithium, 3 V, 1550 mAh
Battery life[1]	Max. number of opening/closing operations per battery: Up to 70,000
Data retention after removal of battery	Date and time: min. 15 minutes Authorisations and other settings: unlimited
RTC precision	Approx. 1 minute per year within temperature range -20°C to +60°C

Supported standards

Reading	LEGIC advant / MIFARE® DESFire®
Data transfer	Bluetooth® Low Energy
Online radio frequency	2.4 GHz IEEE 802.15.4
Reading distance	Up to 20 mm
Interfaces	OSS-SO

Certificates

Classification	DIN EN 15684:2013-01
Protection class	Burglar-resistant or burglar-resistant in accordance with SKG***[2] (applies to EB851 and EB951) and VdS BZ+ (applies to EB951; in preparation)

Programming

Offline	Via Bluetooth® Low Energy with CESentry Desktop-Writer Via Bluetooth® Low Energy with smartphone (iOS/Android)
Online	Online network via Bluetooth® Low Energy with gateway (in preparation)
Data transfer	Encrypted 128-bit/AES

Memory

Number of events	Max. 2,000
Number of locking media	Max. 5,000

[1] This information is valid for an ambient temperature of 20°C. Different temperatures, the type of use and locking device parameter settings may result in strongly divergent values.

[2] The following applies to SKG***: The faceplate screw must be 10 mm longer than the backset of the mortise lock. Corresponding lengths are available on request (standard length: 80 mm).