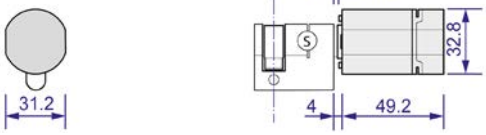
Half cylinders EB851 / EB651

EB851
EU profile cylinder

EB651
Swiss round cylinder

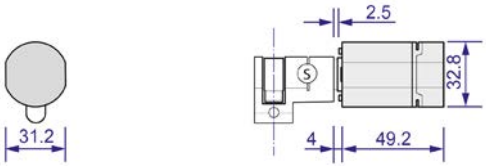
Dimensions

EU profile cylinder
EB851



(S) Exterior side (locking side)

Swiss round cylinder
EB651



(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 15684:2013-01

Property	Category of use	Durability	Fire/smoke resistance	Environmental stability	Mechanical key-related security	Electronic key-related security	System management	Attack resistance
Classification of the electronic cylinder	1	6	A/B*	4	A	F	0/1/3**	0/2***

* (Fire-/smoke resistance)	A	Standard version (= with smoke protection)
	B	FH version (T90)
** (System management)	0	For NoTime variants
	1	For variants with deactivated storage of access events
	3	For TIME, NET or V-NET variants
*** (Attack resistance)	0	No requirement
	2	Burglar-resistant options (VdS and SKG***)

Classification according to DIN 18252:2018-05

Property	Variant	Type	Key-related security	Attack resistance	Panic function
Classification of the electronic cylinder	E	E	6	0/D*	FZG/ R1**

* Attack resistance	0	No requirement
	D	Burglar-resistant (VdS and SKG***)
** Panic function	FZG	Standard version
	R1	AP version

Technical data

Article designation	EB851 | EB651	
Use	The electronic cylinder is used for the authorized opening and locking of doors and locks with profile cylinder-operated locks. Other locks that are not operated with profile cylinders are available (e.g. lever cylinder, padlock, etc.).	
Versions	EB851	EURO electronic cylinder, E knob exterior, half cylinder
	EB651	CH electronic cylinder, E knob exterior, half cylinder
Fire resistance rating	120 minutes as per DIN EN 1634-1 and 18273 (for devices with general building approval)	
Finishes	Stainless steel	
Dimensions		
Basic length	30.5 / 30.5 mm	
Ambient conditions and 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)	
Useful life	200,000 cycles in accordance with DIN EN 16867, grade 7	
Power/voltage supply		
Batteries	CR123A, 3 V (type Duracell Lithium)	
Data retention	Date and time: min. 15 minutes Authorisations and other settings: unlimited	
RTC precision	Approx. 1 minute per year within temperature range -20 to +60°C	
Supported standards		
Reading system	LEGIC advant, all locking media ISO 14443 MIFARE® DESFire®, all locking media ISO 14443 (not MIFARE Ultralight® C)	
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	
Safety class	Optionally to DIN EN 18257 ES2-L or to NEN SKG***	
Programming		
Offline	via Bluetooth® Low Energy with Desktop-Writer EB via Bluetooth® Low Energy with smartphone (iOS/Android)	
Online	Online network via Bluetooth® Low Energy with gateway	
Data transfer	Encrypted 128-bit/AES	
Memory		
Number of events	Max. 2,000	

Battery life*	
Standby without access operations	Up to 10 years
Standby with < 10 access operations per day**	Up to 6 years
Max. number of opening/ closing operations per battery**	Up to 100,000

*The information applies to an ambient temperature of 20°C. Different temperatures, usage frequency or locking device parameter settings may result in strongly divergent values.

**Assumption: 2 out of 10 access operations are made by smartphone via Bluetooth Low Energy (data TBC).