

GENIUS

Multi-Point Lock with electromechanical drive



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GENIUS EA

GENIUS EA – is a key operated multi-point locking mechanism that enables automatic door locking and unlocking. It is provided with integrated control electronics and an electronically controlled drive. Combinable with KfV handheld transmitters and transponder keys for opening via remote control.

GENIUS is available with a key operated multi-point mechanism ex factory. Backsets from 35 mm (1,38 inch) require a profile cylinder with a free moving cam function.

GENIUS can be combined with AS 2300, 2372 AS 2500, 2502 and AS 2600, 2602.

GENIUS EB

GENIUS EB – is fitted with the same equipment features as the EA version. It can be also combined with external clock timers, external systems such as revolving door drives or alarm systems.

Optional: Opening via radio, transponder or infra-red remote control is also available.

GENIUS CA/CB

GENIUS CA/CB – can be optionally fitted with the same equipment features of the GENIUS EA or GENIUS EB. Additionally provided with the “Comfort” quick-opening mechanism, allows GENIUS to be opened simply by pushing the internal handle downwards to override the locking function.

AS 2300 / AS 2372

Multi-point locking mechanism with one-piece faceplate. Above and below the main lockcase are additional lockcases each fitted with hardened steel pinbolts.



AS 2500 / AS 2502

As AS 23.., above and below the main lockcase are additional lockcases, though provided with hardened steel hookbolts.



AS 2600 / AS 2602

As AS 23.., above and below the main lockcase are additional lockcases, fitted with hardened steel hook and pinbolt combinations.



Installation view AS 2600 GENIUS

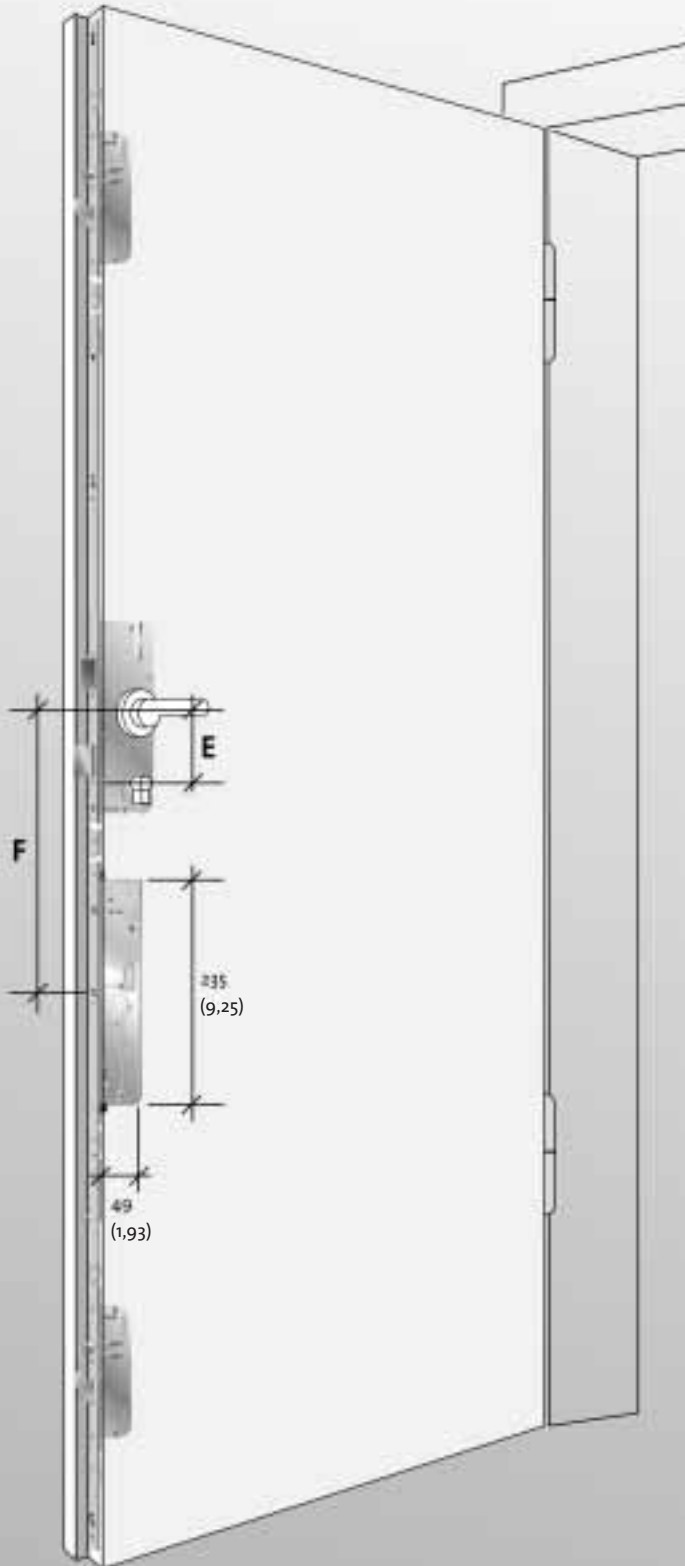


Diagram shows AS 2600 GENIUS EA/EB

Face plate dimensions

F-16	Flat	2170 x 16 mm (85,43 x 0,63 inch)
F-20	Flat	2170 x 20 mm (85,43 x 0,79 inch)
F-24	Flat	2170 x 24 mm (85,43 x 0,94 inch)
P-6-24	U-profile	2170 x 6 x 24 x 6 mm (85,43 x 0,24 x 0,94 x 0,24 inch)
P-8-24*	U-profile	2170 x 8 x 24 x 8 mm (85,43 x 0,31 x 0,94 x 0,31 inch)
P-10-24*	U-profile	2170 x 10 x 24 x 10 mm (85,43 x 0,39 x 0,94 x 0,39 inch)
P-6-22	U-profile	2170 x 6 x 22 x 6 mm (85,43 x 0,24 x 0,87 x 0,24 inch)
P-8-22	U-profile	2170 x 8 x 22 x 8 mm (85,43 x 0,31 x 0,87 x 0,31 inch)

(*only available in stainless steel)

Technical data EA/EB in mm (inch)

Backset	Distance	Case depth
35 (1,38)	92/85/88	52,5 (2,07)
40 (1,57)	92/85/88	57,5 (2,26)
45 (1,77)	92/85/88	62,5 (2,46)
50 (1,97)	92/85/88	67,5 (2,66)
55 (2,17)	92/85/88	72,5 (2,85)
55 (2,17)	92/72*/85/88	79 (3,11)
65 (2,56)	92/72*/85/88	89 (3,50)
70 (2,76)	92/72*/85/88	94 (3,70)
80 (3,15)	92/72*/85/88	104 (4,09)

Spindle square available in 8 (0,31) / 8,5 (0,33) / 9 (0,35) / 10 (0,39).
Centres: 92 (3,62) / 85 (3,35) / 88 (3,46) / 72 (2,83).

Technical data CA/CB in mm (inch)

Backset	Distance	Case depth
35 (1,38)	92	52,5 (2,07)
40 (1,57)	92	57,5 (2,26)
45 (1,77)	92	62,5 (2,46)
50 (1,97)	92	67,5 (2,66)
55 (2,17)	92	72,5 (2,86)
55 (2,17)	92/72*	79 (3,11)
65 (2,56)	92/72*	89 (3,50)
70 (2,76)	92/72*	94 (3,70)
80 (3,15)	92/72*	104 (4,09)

Spindle square available in 8 (0,31) / 8,5 (0,33) / 9 (0,35) / 10 (0,39).
Centres: 92 (3,62) / 85 (3,35). No perforation for handle-escutcheon screws!

(*only AS 2372 / 2502 / 2602)

AS 2300/2500/2600 in mm (inch)

E	85 (3,35)	88 (3,46)	92 (3,62)
F	373 (14,69)	376 (14,80)	380 (14,96)

AS 2372/2502/2602 in mm (inch)

E	72 (2,83)
F	380 (14,96)

Please note that for the frame side, a full height keep plate or individual keep plate with magnet mounting hole is required.

Please note: The GENIUS with Comfort Function (fast opening with the internal door handle, only for types CA/CB) does not have the facility to use separate cylinder escutcheon plates. There are no provisions in the lock case for the fasteners used with this type of furniture.

GENIUS Functions	Typ EA	Typ CA	Typ EB	Typ CB
Installation width from 16 mm (0,63 inch) faceplate	✓	✓	✓	✓
Installation depth from 35 mm (1,38 inch) backset	✓	✓	✓	✓
Anti-sawing security in main locking bolt	✓	✓	✓	✓
Combinable with standard handles (door-furniture)	✓	✓	✓	✓
Automatic locking as soon as the door is closed	✓	✓	✓	✓
Manual locking and unlocking via free-running cylinder, even during power failure	✓	✓	✓	✓
Gear in main lock for powerful manual bolt and latch actuation	✓	✓	✓	✓
Permanent lock monitoring (incomplete deadbolt projection is signalled acoustically)	✓	✓	✓	✓
Operating modes (adjustable via toggle-switch on lock plate) • Night function: door is automatically locked every time when the door is closed • Day function: door remains closed by the latch only	✓	✓	✓	✓
Electrical opening via potential-free contact (switch) or external access control system	✓	✓	✓	✓
Operation by means of handheld transmitter (from inside or outside)*	✓	✓	✓	✓
Operation via transponder*	✓	✓	✓	✓
Night/day function via external clock timer			✓	✓
Combination with external systems (e.g. revolving door drives or alarm systems)*			✓	✓
Operation via infra-red transmitter (unrestricted intervisibility with door required)*			✓	✓
“Comfort” opening function via handle from inside door		✓		✓

* Additional accessories required for this function

Accessories



1. Transformer

The transformer unit delivers the power supply for GENIUS. The fitting is suitable for mounting upon a standard 'top-hat' rail (35 mm - 1,38 inch). A transformer can only be used for maximum one GENIUS and one radio-receiver.

Technical data: *Primary:*

- Input voltage:
May be supplied either 230 V AC or 115 V AC
- 50 / 60 Hz
- Protection: Fuse dimensions 5 x 20

Secondary:

- Output voltage: 24 V DC
- Power: 10 W



2. Cable cover – visible

Power cable protection for the cross-over between sash and frame. Only suitable for mounting on the internal face of the door. Colours: white, brown or silver. Length: 30 cm (11,81 inch).



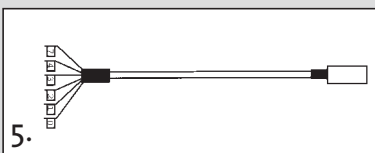
3. Cable cover – concealed, 100° opening angle

The enclosure may be mounted in the door frame or the door leaf. W 24 x H 260 x D 18 mm (0,94 x 10,24 x 0,71 inch).



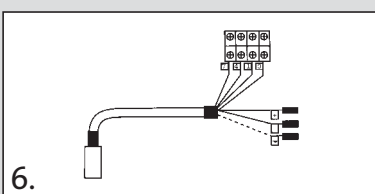
4. Cable cover – concealed, 180° opening angle

The enclosure may be mounted in the door frame or the door leaf. W 24 x H 480 x D 18 mm (0,94 x 18,90 x 0,71 inch).



5. Cable Type F Lengths 2,5 m - 8,20 feet, 3 m - 9,84 feet, 4 m - 13,12 feet, 5 m - 16,40 feet (sash side)

Cable pre-assembled with 6-pin plug-socket connectors. Prepared on the GENIUS side, numbered and provided with wire end ferrules. Type B cable must be ordered with this.



6. Cable Type B Lengths 2 m - 6,56 feet, 4 m - 13,12 feet, 6 m - 19,69 feet, 8 m - 26,25 feet (frame side)

Cable pre-assembled and provided with 6-pin plug-socket connectors. On the power supply unit side, numbered and provided with wire end ferrules and terminal blocks. Type F must be ordered with this.

7. Cable Type E Lengths 1 m - 3,28 feet, 4 m - 13,12 feet, 6 m - 19,69 feet, 8 m - 26,25 feet (sash and frame sides)

The cable (3-core, screened 0.14 mm² - 0.005 inch²) is pre-assembled and numbered on both sides and provided with wire end ferrules. It is used for connecting a GENIUS lock to a transformer unit. The cable may be additionally used to create a connection to an external access control system (e.g. KFV r.f. remote control system). **We recommend pre-prepared cable!**

8. Cable Type C Lengths 4 m - 13,12 feet, 6 m - 19,69 feet, 8 m - 26,25 feet, 10 m - 32,81 feet (sash and frame sides)

Cable 6-core, screened 0.14 mm² (0.005 inch²) not pre-assembled for supplying power to the GENIUS (cable routing from transformer unit to the frame via the cable cover through the door to the GENIUS).

9. Cable Type D Length 2.5 m (8,20 feet)

Cable for connecting the transformer unit to a socket outlet with earth contact.



10. External Radio Receiver (access control system for GENIUS)

The supply voltage of 24 V DC may be drawn from the GENIUS power supply. The range of the radio receiver is 10 m up to 100 m. Connection with cable type E. Up to 84 handheld transmitters may be programmed (to be ordered separately, see point 11).



11. Handheld transmitter for the radio receiver (grey or orange)

The 2 channel handheld transmitter is used to transmit the data (rolling code) to the radio receiver. The keys may be programmed individually.



12. Radio receiver with potential-free contact

Provided for other external systems (e.g. garage door opener). Voltage supply may be 12 or 24 V DC. See point 10 for further technical details. Handheld transmitters must be ordered separately (see point 11).



13. Coupling relay

Version: 12 V AC/DC or 24 V AC/DC (e.g. for retro-fitting of electric openers/GENIUS)



14. Internal release button (for unlocking)

Internal release button made of brushed stainless steel, dowels for 'snap-in' mounting included. Cable length: 750 mm (29,52 inch).

Accessories only for GENIUS Typ EB and CB



15. Infra-red receiver (infra-red eye)

Infra-red receiver incl. LED (to show locked status of door) for outside of door. 1 programming code and 256 access keys can be entered. These must be ordered separately (see points 16, 17 and 18).



16. Programming key

This key is used to enter or delete access codes (see points 17 and 18).



17. 1-channel access key

The 1-channel access key is used to transmit data (rolling code) to the infra-red receiver in order to initiate the door-opening procedure.



18. 2-channel access key

The 2-channel access key is used to initiate the door opening or locking procedure. Additional outside systems can also be switched on or off with the locking switch via the optional outlet (open collector). e.g. alarm system



19. IR receiver with potential-free contact

Intended for other external systems (e.g. garage door operators – 230 V AC). 1 programming code and 256 access keys can be entered. These must be ordered separately (range approx. 4 – 7 m / 13,12 – 22,96 feet).



20. Clock timer – rail version

Clock timer for external night/day function with gold-plated relay contact (230 V AC).



21. Clock timer – concealed version

Clock timer for external night/day function with gold-plated relay contact (230 V AC).



22. Test unit

If F-type cables are used, the test unit can be used to carry out testing/fault analysis of the GENIUS.

Accessories Transponder



23. Transponder key

The transponder, in the form of a key fob, sends a signal to the proximity reader unit. This has an operating range of approximately 8 cm.



24. Proximity reader unit for the transponder key

Proximity reader unit includes LED indicators for the inside and outside of the door. (Conforming to IP 67). This includes connection cable 2 metres long. The indicators are housed in a silver-coloured cover. Visible and concealed mountings are possible.



25. External electronic receiver of the transponder – Access control for GENIUS

Power supply 12 or 24 V AC/DC. It can also be supplied by the GENIUS transformer. Integrated keyboard for selective deleting / programming. Connection with cable type E. Up to 3 proximity readers (reader units) can be connected parallel (to be ordered separately, see point 24). 99 transponder keys can be programmed (to be ordered separately, see point 23).

26. External electronic receiver of the transponder – with potential-free contact

Designed for other external systems (e. g. garage doors operators). For further technical data see point 25. Up to 3 proximity readers (reader units) can be connected parallel (to be ordered separately, see point 24). 99 transponder keys can be programmed (to be ordered separately, see point 23).