

# TECTIQ double knob cylinder, reader outside T90

Art.-Nr. TEC-Z-LA-T90

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## SIMPLE. ACCESS. ORGANISATION.

With the digital TECTIQ locking system.

The electronic TECTIQ locking cylinder with RFID reader grants people access on the locking medium (transponder, card) according to their permission level. Data exchange is encrypted and protected against readout (MIFARE® DESFire®). The battery-operated door component requires no external cabling or radio connection.

## Validation/update

ABUS TECTIQ stores permissions and events on the RFID locking medium (Data-on-Card) and exchanges data wirelessly with the cylinder or the system. The optical illuminated ring signals to users whether they are authorised to access the system.

## Elegant design, top quality

With its clear design and knob cap (RFID reader unit) in black or grey, the robust, high-quality cylinder with IP67 and stainless steel look is suitable for any door and surface.

## Customised modular extension

The double knob cylinder is suitable for exterior and interior doors with door leaves 30 to 90 mm thick on each side. Extension modules in 5 mm increments are used to adapt the length to individual conditions, including flexibly on site or for shaft extension for doors with core pull protection.

## Wide range of variants

Available in different versions: with reader on the outside or on both sides (e.g. for connecting doors), as a double knob, half cylinder or padlock. With panic function for emergency exit doors (EN 179/EN 1125).

## Further options & configurations

Fire protection: Standard T30 and optional T90; optional security drill protection with extra-reinforced anti-drill protection (SKG\*\*\*) and core pull protection extension, e.g. for exterior and security doors.

## Technologies

- Electronic TECTIQ double knob cylinder for secure yet simple and flexible installation on T90 fire doors
- High-quality T90 double knob cylinder (reader outside) with stainless steel outside knob and continuous stainless steel look, in a discreet, purist design line; highly weather-resistant in the standard version (IP67)
- TECTIQ cylinder with RFID reader for secure, readout-protected Data exchange with TECTIQ locking media (MIFARE®)

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DESFire®); with free-running exterior knob: no access without authentication

- The cylinder can be programmed via Bluetooth with the TECTIQ Admin app and, for example, receive a new time or the latest firmware update
- Elegant design in different Design variants to match the style of your building thanks to different colours and knobs
- Suitable for any door leaf thickness: cylinder length can be individually adjusted from 30 to 90 mm on each side thanks to the modular extension concept (length of the configured cylinder can still be adjusted on site)
- Replace the cylinder instead of the fitting set: convert a mechanical to an electronic cylinder at a favourable price and integrate the door into the TECTIQ locking system (simple cylinder replacement using a screw)
- For installation in fittings with core pull protection or doors without profile perforation: optionally available with core pull protection extension (OPZ) to guide the outer shaft of the cylinder up to 10 mm through the fitting
- Tested, certified quality: EN 15684, SKG\*\*\* (security), FZG, fire protection T90

## Technical data - TECTIQ double knob cylinder, reader outside T90

Administration	TECTIQ Access Manager
Area of application	T90 Fireprotection doors
Backset	≥ 30 mm (round knob)/ ≥ 35 mm (square knob)
Backup power supply	Yes, Micro USB
Battery - runtime	At 20 °C (room temperature): up to 60,000 cycles or 3.5 years if not actuated
Battery - type	VARTA Lithium battery 3V CR2/CR15H270/6206
Battery compartment	In outer knob
Battery warning stages	2 levels
Bluetooth version	5.1
Certifications	EN 15684:2020 1-6-B-4-x-D-4-A/D, optional SKG*** (with Security drilling protection)
Colour	Outer knob: brushed stainless steel black or grey   Inner knob: brushed stainless steel   Cylinder body: brushed stainless steel
Core pulling protection extension	Optional 10 mm (configuration feature)
Corrosion protection	According to EN 1670 class 3/EN 15684 class 4
Custom lengths	Yes, on request
Cylinder profiles	Euro profile
Design	Double knob cylinder
Dimensions	External knob: L = 48 mm, Ø = 38 mm, internal knob: L = 27 mm, Ø = 33 mm
Drill protection	Standard   Security (SKG***/EN 15684 clause 8 class D)
Extension steps	5 mm (modular)
FZG	Yes
Factory reset	Yes
Fatigue strength	> 200.000 cycles (EN 15684:2020 class 6, EN 179)
Fire protection class	T90

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## Technical data - TECTIQ double knob cylinder, reader outside T90

Humidity	20-99 % non-condensing according to EN 15684 class 4
IP protection class	67
Inside knob variants	Square   Slim
Item abbreviation	TEC-Z-LA-T90
Material	Outer cap: stainless steel, plastic   Inner knob: stainless steel   Cylinder body: brass
Max. blacklist number	120
Max. inside length	90 mm
Max. operating temperature	65 °C
Max. outside length	90 mm
Min. inside length	35 mm
Min. operating temperature	-25 °C
Min. outside length	30 mm
Modularity	Yes
Opening time can be set	Yes (6/12 Sec)
Outside knob variants	Square   Round
Programming	TECTIQ System Cards, TECTIQ Admin App
Programming technology	RFID (13.56 MHz)   Bluetooth (2.4 GHz)
RFID frequency	13,56 MHz
RFID range	≤ 1 cm
RFID technology	MIFARE® DESFire® EV1, EV2, EV3
Real-time clock (RTC)	Yes
Security features	Freely rotating outside knob to prevent unauthorized access, engagement only when an authorised locking medium is presented, predetermined breaking point on outside knob, drilling protection
Signalling	Visual
Special functions	Office Mode
Storage type	Ring memory: 890 events
Transmission power	-4 dBm
Transponder conformity	Passive-Transponder ISO 14443 A (MIFARE® DESFire®)
Transponder encryption	AES 128-Bit
Update capability	Yes (USB Updater Cable   Admin App)
Use on escape and rescue routes	Yes, according to EN 179 and EN 1125, see lock compatibility list (mandatory)
Variants	Drilling protection standard/security, core pull protection extension
Wireless conformity	ETSI EN 300 328
Wireless encryption	AES 128-Bit
Wireless standard	Bluetooth Low Energy 2,4 GHz