# PRODUCT DATA SHEET

## 4KS rim cylinder AZ

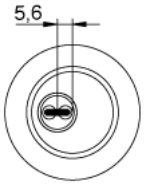
**SKU** EV.4KS.AZ
**Producer No.** 4KS AZ

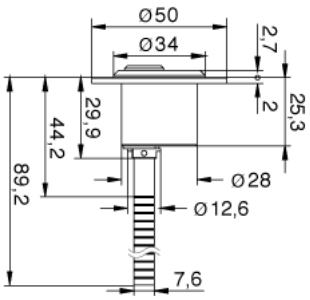
EVVA 4KS (4 Curve System) is the most resistant system among mechanical locking systems. With its patented springless curve technology, 4KS is suitable for the toughest applications such as high up in the mountains or in production plants with high levels of dirt. The reversible key offers a comfortable insertion behaviour and turns easily and quietly in the cylinder. Of course, 4KS also has an EVVA-own feature: the overlapping curve milling. This guarantees maximum security and prevents key manipulation within the locking system.

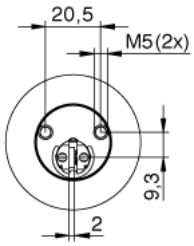
The patented reversible key system is suitable for highly complex structured locking systems.

### Measurements

- case length: 25,3 mm
- rosette: Ø 50 mm
- mounting diameter: 28 mm
- cylinder: Ø 34 mm




### Technical characteristics

- springless technology
- locking authorisation query in at least 18 query positions (authorisation positions)
- 12 springless, massive locking pins are brought into a specific position via positive control of the six key curves and scanned by 2 control bars
- locking bar in the core controls the additional coding of the key
- carbide drilling protection in core and body
- steel balls as drilling protection for the cylinder fixing screws
- picking and scanning protection
- impact key protection
- pulling and tear-off protection
- locking path: 360°
- locking bar for door thickness up to 50 mm
- locking bar can be shortened every 5 mm by buckling
- patent protection until 2035

### Execution

- reversible key system
- vertical, easy key insertion
- cylinder body and cylinder core: base material brass
- all query elements with Triflon coated
- combination with electronic locking system possible

### Options / Special equipment

- different cylinder finishes *

### Operational area

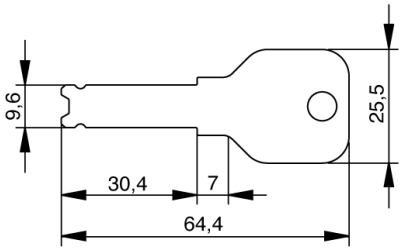
- prepared for EVVA additional box locks of the K900 and K9000 series
- very large properties with a complex locking system structure and a large number of different user groups (EVVA's extensive expandability is included in the planning)
- industrial enterprises
- universities
- large retail chains
- cultural and leisure facilities

### Scope of delivery

- rim cylinder (round cylinder) AZ incl. 3 or more keys
- rosette Ø 50 mm
- 2 fixing screws M5 x 40
- security card

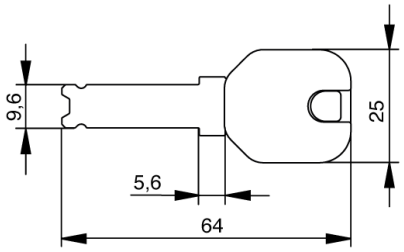
### Key

- key thickness: 2,2 mm
- reversible key made of special resistant nickel silver alloy
- more stable and ergonomic due to the new bow shape
- more compact due to shortened key tip
- highest wear resistance
- overlapping curve milling protects against key manipulation and ensures maximum safety
- easy key insertion through uniquely rounded key tip
- optional: key with design cap *, key with coloured dot *, key with extended key neck *
- the original 4KS key is produced exclusively by EVVA and is only available from an EVVA partner.
- The fourth hidden curve: one of the three curves on one side runs asymmetrically on the other side. It is the hidden fourth curve that gives the 4KS its name.



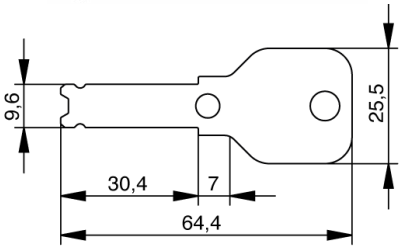
**Key with design cap**

- colours: black, blue and red, yellow, green and white
- material thickness design cap: 7,2 mm
- plastic caps for special design requirements for the keys
- ergonomic design and high quality for better haptics
- easy optical differentiation
- simple management of locking systems through colour assignment
- consecutive numbering of the key (key with the same locking authorisation receives a consecutive number)
- use exclusively for EVVA keys
- factory assembly, subsequent opening and retrofitting is not possible



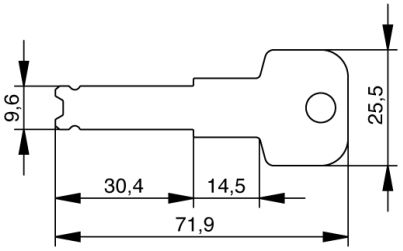

**Key with coloured dot**

- colours: red, blue, green, yellow, brown, black, violet, pink
- with countersunk colour dot on the key neck
- for optical differentiation
- colour dot may differ from the image on the website



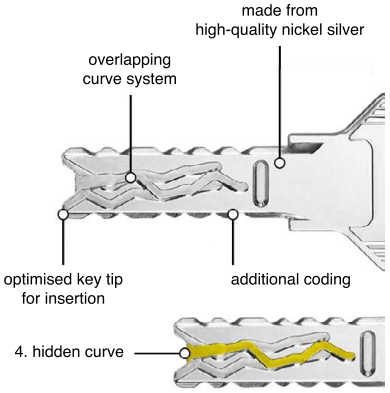

**Key with extended key neck**

- specially shaped key
- for use with armoured fittings



## Technical details

Unlike other locking systems, the locking elements in the 4KS cylinder move along the curves on the key. They are no longer pressed against a spring force. A total of 12 springless, massive locking pins are brought into a specific position via positive control of the six key curves and scanned by two control bars. A locking bar in the core controls the additional coding of the key. In total, the 4KS key is interrogated four times. This is 3 queries more than with other systems and offers maximum security.




### The fourth hidden curve

One of the three curves on one side runs asymmetrically on the other side. It is the hidden fourth curve that gives the 4KS its name.

### Locking cylinder security

The innovative technologies of the 4KS cylinder offer sustainable protection against illegal opening methods:

- **Picking and scanning protection**
  The 4KS cylinder is equipped with several locking pins. It is not possible to tell which locking pin is effective in each individual case. Due to the freely movable position of the locking elements in the core, it is almost impossible to scan a milling pattern for a duplicate key. In addition, the springless function protects against impact picking.
- **Drilling protection**
  The carbide metal side control bar, the core drilling protection and the body drilling protection in the 4KS cylinder offer effective protection against drilling.
- **Impact key protection**
  With this complicated opening method, burglar professionals use a so-called impact key to try to bring the query positions in the cylinder into the correct position.

* this selection extends the delivery time

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