

MCS (Magnetic Code System) guarantees triple security through one magnetic and two mechanical codings. The permanent magnetisation holds constantly. The cylinder core contains 8 rotating magnetic rotors to which the 4 magnetic pills of the key are assigned. If is the key from keyway removed, they always assume a different position. Each magnetic pill can be magnetised differently on each side.

MCS is ideal for locking systems with high demands on perfection and security. Especially for objects where highly sensitive and irretrievable valuables have to be protected.

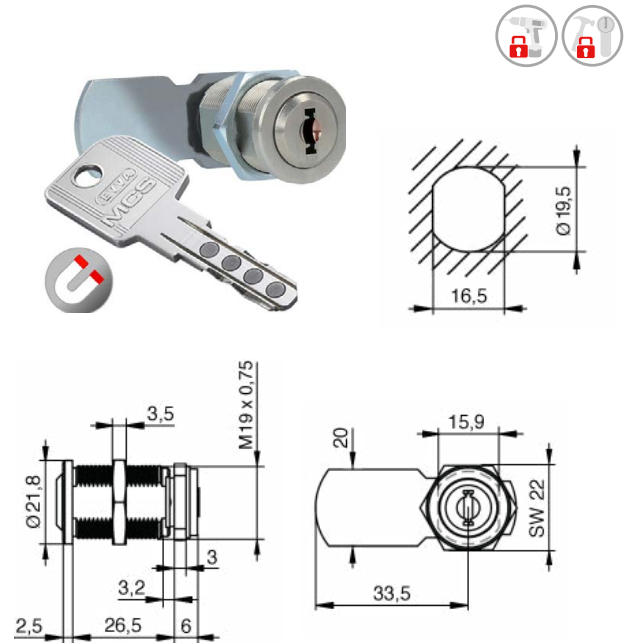
Locking system reserves can already be taken into account when planning the locking system.

## Measurements

- clamping dimension (H7233): 26,5 mm
- installation depth: 32,5 mm
- mounting hole: Ø 19,5 mm lateral reduced to 16,5 mm
- cylinder front: Ø 21,8 mm

## Technical characteristics

- magnetic code system
- double authorization queries during the locking process
- freely rotating magnetic rotors to which the four magnetic pills of the MCS key are assigned
- 7 additional springless mechanical horizontal locking elements
- mechanical control by a length profile system and positively controlled locking pin detection on both key sides
- drilling protection: hardened HSS steel pins in the cylinder core
- picking and scanning protection
- impact key protection
- locking path: 90°, lever adjustable in 45° steps by 360 degrees
- secured against rotation by two surfaces
- for material thicknesses up to 14 mm
- with thread M19 for fixing nut SW22
- patent protection until 2035



## Execution

- reversible key system
- vertical, easy key insertion
- high wear resistance
- locking by closing lever
- key can only be removed when closed
- base material: brass
- closing lever: galvanised steel
- drive plate, fixing screws: galvanized steel
- combination with electronic locking system possible

## Options / Special equipment

- different closing lever variants (standard closing lever H7233: 33 mm)

## Operational area

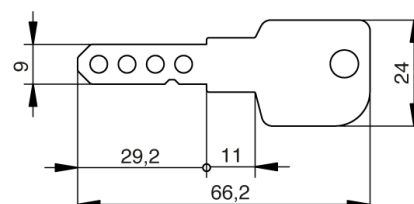
- wood and metal doors
- mailboxes, key boxes
- emergency key boxes, showcase locks
- cloakroom boxes/lockers
- luxury trade, research institutions
- hospitals, International airports
- residences
- office building

## Scope of delivery

- camlock cylinder / lever cylinder MB19 incl. 2 or more keys
- selected closing lever, mounted
- fixing nut M19
- security card

## Key

- key thickness: 2,4 mm
- magnetic key made of special resistant nickel silver alloy
- permanent magnets made of samarium-cobalt-5 guarantee a long life
- maximum key copying security
- very resistant, low wear
- optional: ergonomic design key \*, key with colour dot \*



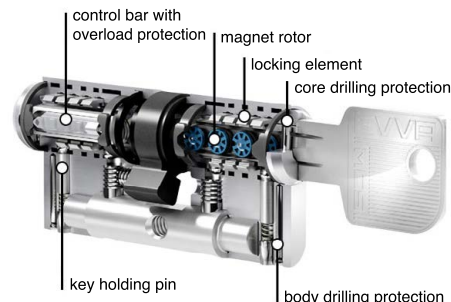
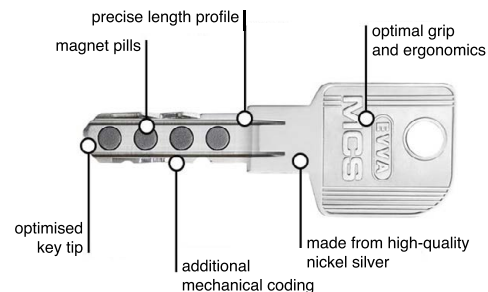
## Technical details

### Magnetic code system - maximum key copying security

The MCS cylinder contains a total of eight freely rotating magnetic rotors to the left and right of the key channel, to which the four magnetic pills of the MCS key are assigned. When an MCS key with a matching magnetic coding is inserted, all magnetic rotors are brought into the correct locking position. 2 mechanic bars above these assign the locking authorisation.

The mechanical control is carried out by a profile system (length profile) and by a positively controlled locking pin detection on both key sides with manipulation control. The permanent magnets made of Samarium-Cobalt-5 guarantee a long service life and cannot be remagnetized or demagnetized by conventional tools.

The unique magnetic keys guarantee maximum security against key copying. Each lock and each key is unique.



### Locking cylinder security

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

- **Picking and scanning protection**

The freely rotating magnetic rotors of the MCS cylinder are spatially separated from the key channel and therefore cannot be scanned or manipulated. This means that it is not possible to scan the magnetic coding in the MCS cylinder.

- **Protection against drilling**

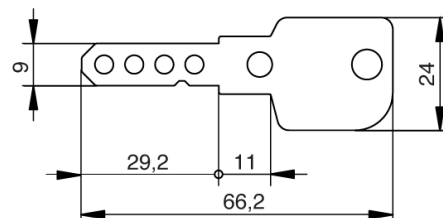
The carbide elements in the MCS cylinder core provide effective protection against drilling.

- **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.

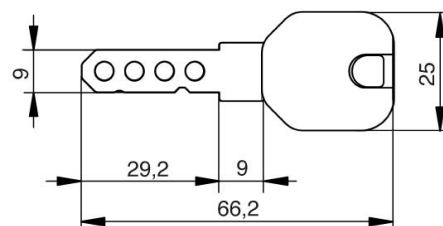
### Key with coloured dot

- 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 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



\* this selection extends the delivery time