



## Technical Data      DOM ENiQ cylinder mifare

### Variants:

- DOM ENiQ double cylinder and half cylinder
- Even the standard version includes all mechanic and electronic security features:
  - Body and core drilling protection
  - separate control electronic for actor in the core
- DOM ENiQ EE double cylinder (emergency exit) application in escape and emergency routes with locks demanding a well-defined cylinder cam position  
Also available as following versions:
  - EE-IM: operation by special mechanical key from inside
  - EE-OI: without inside knob
- DOM ENiQ KL (German: „Kurz-Lang“ cylinder) reduced outside length of 27,5 mm (see cylinder lengths)
- DOM ENiQ GL GL (cylinder für glass doors) reduced inside length of 10-27,5 mm (see cylinder lengths)
- DOM ENiQ OI (without inside knob)
  - blind cylinder on the inside
  - prevention of unauthorised locking from the inside
- DOM ENiQ BS (reader on both sides) reading of transponders also on the inside
- DOM ENiQ KZSV (German: “Kernziehschutzverlängerung”)
  - for assembly in fittings with core pulling protection
  - protruding outer shaft by 8,5m
- DOM ENiQ CH (22 mm Swiss round profile)
- DOM ENiQ euroswiss profile
- DOM ENiQ PP (privacy protection) no storage of individual-related events
- Intelligent transponders: Authorisations can be stored on the transponder (instead in the device).
- Online-Funktion: The DOM ENiQ is prepared for the wireless integration into an Ethernet network by means of a radio interface.

### Feature combinations:

Variants	Code	DZ	HZ	EE	KL	GL	OI	BS	KZSV	EU-CH	CH
Double cylinder	DC			X	X	X	X	X	X	X	→
Half cylinder	HC			O	O				X	X	→
EE (Emergency Exits)	EE				O	O	X	O	X	X	O
Short-Long	KL					X	X	O	X	X	→
Glas door cylinder	GL							O	X	X	→
without inside knob	OI								X	X	→
Reader on both sides	BS								X	X	→
core pulling protection	KZSV									X	→
Euroswiss profile	EU-CH										
Swiss round profile	CH										

Legend: X available  
 O not available  
 → later available

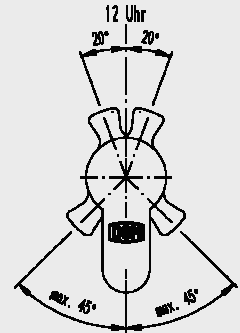
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### Position of cylinder cam:

- The DOM ENiQ EE has a spring driven reset mechanism to turn the cylinder cam to a fixed position.
- Due to the cylinder construction the reset mechanism does not work within the angular dead centers  $12^{00} \pm 20^\circ$  and  $6^{00} \pm 45^\circ$ .

**!** For the version IM the correct resetting function of the cam is only ensured in case of unplugged key.



### Power supply:

- battery pack with 2 lithium cells 3,0 Volt
- type CR2 (Li-MnO<sub>2</sub> system)

### Battery life time and data preservation:

at room temperature (+20°C):

- up to 100.000 locking cycles or
- up to 3 years in case of non-use

- multilevel alarm system in case of voltage drop
- 10 years data preservation without battery

### Time / Date:

- buffering typically 1 minute (in case of battery change)
- clock drift at room temperature:  $\pm 10$  minutes/year  
at -25°C and +70°C: -50 minutes/year

### Durability:

- at least 100.000 cycles  
(according DIN EN 1303 and EN 15684 grade 6)

### Cylinder length:

- Max. 80/80 mm, higher lengths on request
- Glass door cylinder with inner length from 10 to 27,5 mm
- version KL with outer length 27,5 mm
- extendable in 5 mm steps  
(glass door cylinder: inner side in 2,5mm steps)
- For backset < 30 mm the application is to be checked

### Knobs:

- Outside knob: stainless steel  
size:  $\varnothing$  37,5 mm, length 44,8 mm
- Inside knob: pot metal  
size:  $\varnothing$  32 mm, length 30 mm
- for double cylinder with two-side readability  
both knobs: stainless steel  
size:  $\varnothing$  37,5 mm, length 44,8 mm
- optional available in: black glossy powder-coated RAL9005  
white glossy powder-coated RAL 9003

### Signalling:

- optical signalling (red/green/blue)
- circular lighting segments in knob cover

### Clutch duration:

- adjustable ranging from 1 to 30 seconds
- permanent open/close mode



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### Approvals and certifications:

- VdS-BZ+ approval in preparation
- SKG\*\*\* approval in preparation
- application in fire-proof doors T90 in preparation
- certification according to EN 15684 by PIV in preparation:
 

digit	1	2	3	4	5	6	7	8
DOM ENiQ	1	6	B	4	A	F	3	2
- tested as free-wheeling cylinder according to test directive FZG, version 2010\_01 of PIV in preparation (except version EE)

### Environmental:

- Temperature: -25°C to +70°C (class 4 EN 15684)
- Humidity: 20-99% no condensation (class 4 EN 15684)
- Protection class IP66 (outside knob) for all variants
- Protection class IP65 (complete cylinder) for all variants
- anticorrosive according to DIN EN 1670 class 3 and grade 4 of EN 15684
- SO<sub>2</sub> corrosion test according to VdS 2156-2 and DIN EN ISO 6988 (15 cycles with 0,2 l SO<sub>2</sub>) in preparation
- According to VdS guideline 2156-2 the DOM ENiQ is designed for a weatherproof installation.

### Administration by software:

- Programming by ENiQ AccessManagement software via USB-RF-Stick (See datasheet of ENiQ AccessManagement)
- Storage of max. 5 programming cards

### Events:

- ring buffer for the latest 2.000 events

### Inductive transponder interface:

- reading range: up to 3 cm
- frequency: 13,56 MHz
- field strength in 10 m distance: < 42 dB µA/m
- in conformity with ETSI EN 300 330
- supports passive transponders according to ISO 14443 A

### Security transponder interface:

- Mifare DESFire EV1: AES-128 Bit encryption
- Mifare Classik: Crypto-1 encryption
- additional AES-128 Bit encryption with object specific key

### Radio interface (online/offline):

- For offline programming by a DOM USB-RF-stick or for the online connection to a DOM RF-NetManager:
- reading range: typical 3m (offline) / 10m (online)
  - frequency: 868 MHz (G4 / G1-Band)
  - effective radiated power: ≤ 5 mW / ≤ 25 mW
  - in conformity with ETSI EN 300 220

### Security radio interface:

- Key exchange: Curve25519-256 Bit (elliptical curve)
- Encryption: XSALSA20-256 Bit
- Signature / Authentication: Poly1305-128 Bit



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### Transponder types:

- DOM Standard Tag, Premium Plus Tag, ClipTag
- ISO card transponder
- other types have to be checked

### Storage of access authorisations in the device:

- supported transponders:
  - Mifare DESFire / DESFire EV1 2k, 4k, 8k
  - Mifare Classic 1k, 4k
  - Mifare Plus S/X 2k, 4k
  - Mifare Ultralight / Ultralight C

- storage of maximal 5.000 authorisations in the device
- identification of the transponders by their UID or by other unique data

### Storage of access authorisations on the transponders:

- supported transponder types:
  - Mifare DESFire EV1 2k, 4k, 8k
  - Mifare Classic 1k

- other data on the transponder:
  - „blacklist“ with blocked transponders
  - authorisation period, weekly schedule at the device

### Weekly and day's schedules:

- storage of max. 256 weekly / day's schedules per device
- each weekly schedule points to 10 arbitrary day's schedules (7 week days and 3 special days for holidays):

1	2	3	4	5	6	7	8	9	10
Mon	Tue	Wed	Thu	Fri	Sat	Sun	holiday / vacation		
DS1	DS2	DS3	DS4	DS5	DS6	DS7	DS8	DS1	DS2

- each day's schedule consists of 96 time slots of 15 minutes, in each case definable as authorised or unauthorised:

0 <sup>00</sup>	1 <sup>00</sup>	2 <sup>00</sup>	3 <sup>00</sup>	...	20 <sup>00</sup>	21 <sup>00</sup>	22 <sup>00</sup>	23 <sup>00</sup>
□	□	□	□	...	□	□	□	□

- access rights of the weekly / day's schedules:
  - # 0: no access (unauthorised)
  - # 1: access with no time-limits, active special functions may limit access
  - ## 2-254: freely definable
  - # 255: access with no time-limits, active special functions are ignored

- permanent-open and permanent-close weekly schedules

### Holidays:

- storage of maximum 256 holidays or vacation periods per device
- definition of 3 different kinds of holidays/vacations
- begin / end as from / to date



*These data correspond to the actual development status and are subject to change at any time without notice.*