

Technical Data

DOM Protector®

Versions:

- DOM Protector® with VdS¹⁾ approval, recommended by German BSI²⁾
- DOM Protector® Basic / Basic-plus without VdS approval, no BSI testing
- DOM Protector® DK (without VdS approval): with dismountable outer knob and protruding outer shaft (protrusion 6,5 mm or 10,5 mm)
- DOM Protector® FR (fire resistant) (always as VdS version)
 - ! This version is mandatory for applications in fireproof doors up to fire resistance class T90.
- DOM Protector® EE (emergency exit) (always as VdS version)
 - ! For the installation in escape and emergency routes (EN 179, 1125) the pertinent building regulations as well as the certificates of conformity of the respective lock manufacturer must be considered. For locks without conformity with freewheel cylinders, demanding a well-defined cylinder cam position, there exists a special version DOM Protector® EE with a separate data sheet.
- DOM Protector® PP (privacy protection) no storage of individual-related events
- DOM Protector® BS: reader on both sides (always as VdS version)
- DOM Protector® online for Ethernet networking (always as VdS version)
- DOM Protector® CH, 22 mm Swiss round profile
 - always as Version DK (6,5 mm protruding outer shaft)
 - not available as EE, half, glass door or KL cylinder
 - maximum length: 40/40 mm

Power supply:

- 1 Lithium battery ½AA, 3,6 Volt
- type ER-14250-M (LiSOCl₂-System)
- ! Existence of fire, explosion and severe burn hazard. Do not recharge, short circuit, crush, disassemble, heat above 85°C, incinerate or expose contents to water.

Current consumption:

- operating current: maximum 170 mA (< 100 ms)
- average quiescent current < 20 µA

Battery life time and data preservation:

- at room temperature (+20°C):
- up to 50.000 locking cycles or
 - up to 3 years in case of non-use
- ! For the online version the corresponding values are 40.000 cycles or 2 years in case of non-use.

intelligent battery management:

- multilevel alarm system in case of voltage drop
- buffering of date and time: typically 1 minute
- 10 years data preservation without battery

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Durability:

- at least 100.000 cycles (according DIN EN 1303)

Cylinder lengths and types:

lengths:	min.	max.
half cylinder	30/- mm	80/- mm
double cylinder	30/30 mm	80/80 mm
glass door cylinder	30/10 mm	40/27,5 mm

- higher lengths on request
- extendable in 5 mm steps
(glass door cylinder: inner side in 2,5mm steps)
- DOM Protector® CH only available up to 40/40 mm
- version KL with outer length 27,5 mm
(maximum inner length 40 mm)

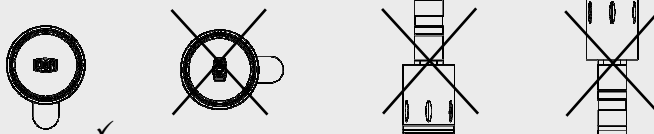


The version KL is solely available as DOM Protector® Basic/-plus.

- mounting in Euro opening (DIN 18252, EN 1303)
- DOM Protector® CH, 22 mm Swiss round profile
other profiles on request
- For backset < 25 mm the application is to be checked.

Allowed installation orientations:

DOM Protector®:



DOM Protector® Basic/-plus:



For the application in padlocks the DOM Protector® Basic/-plus may be used, but only for interior applications.

Stainless steel knobs:

- outside knob: Ø 30 mm, length 41 mm
- inside knob: Ø 30 mm, length 30 mm
- for double cylinder with two-side readability
both knobs: Ø 30 mm, length 41 mm

Signalling:

- optical signalling (red/green)
- circular lighting segments in knob cover
- illuminated DOM-logo

Clutch duration:

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

Administration by software:

with PC / notebook / netbook or PDA:

- ELS-Software V4.0 (online: V4.1), or higher
- ELSmobile-Software V4.0, or higher
- ELS4PDA-Software V3.0 (online: V3.1), or higher

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Programming devices:

storage of programming devices:

- max. 5 programming cards,
5 PDA's or 5 ELSmobile devices

Infrared interface:

- positioning: inside knob, behind DOM-Logo
- wave length: 880 nm (peak sensitivity)
- angle of half intensity: $\pm 24^\circ$
- data rate: 38,4 kBit/sec

Radio online interface:

connection to DOM RF-NetManager via integrated radio module (networking via Ethernet / TCP/IP):

- range: typical 3 m
- frequency: 868 MHz
- radiated power: $\leq 7,5$ dBm e.r.p.
- in conformity with ETSI EN 300 220



The online cylinder is always delivered as VdS version.

Inductive transponder interface:

- reading range: up to 5 cm
- frequency: 125 kHz
- field strength in 10 m distance: < -6 dB μ A/m
- in conformity with ETSI EN 300 330

transponder standards:

- Hitag transponders: Hitag 1, Hitag 2, Hitag S
- EM transponders: 4100, 4102, 4150, 4450

transponder types:

- DOM Standard Tac, Design Tac, Premium Tac, Clip Tac,
- ISO card transponder
- DOM ((o)) butler transponders with passive inlay
- other types have to be checked

Access authorisations:

storage of access authorisations in the cylinder:

- max. 3.000 conventional transponders with 4 byte transponder serial number
- max. 32.000 subscribed transponders with object specific identifier



For the DOM Protector® Basic solely 1.000 conventional transponders can be stored.

storage of access authorisations on the transponder:

- storage of max. 260 areal or 65 single-authorisations on the transponder



Solely with Hitag S transponders and not available for the DOM Protector® Basic.

Time zones:

- 31 freely definable time zones with up to 3 time intervals per day

Event memory:

- ring buffer for the latest 2.000 events



The DOM Protector® Basic has a ring buffer for the latest 1.000 events.

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Approvals and certifications:

- in conformity with all applicable EC directives
- national laws have to be checked separately

- VdS BZ+ M107314 (VdS 2156-2) ¹⁾
- withstanding time against mechanical attacks accord. VdS C
- tested according to BSI guideline TL-03405 ²⁾
recommended product according to BSI list TL-03400



VdS approval and BSI testing solely for the DOM Protector®, but not for the version DK (especially not for the DOM Protector® Basic/-plus).

- application in fire-proof doors T30 / T60 / T90 (tested according to DIN EN 1634-1)



For the application in fire-proof doors up to fire resistance class T90 the installation of the special version DOM Protector® FR is mandatory.



The DOM Protector® FR is always delivered as VdS version.

Temperature, relative humidity:

temperature range:

- stocking: -25°C to +70°C
- operation: -25°C to +70°C

relative humidity:

- 20% to 99%, no condensation

- tested according DIN IEC 60068-2-1/2/3/30
VdS environmental class III
(temperature: 6 cycles á 12 h, cold tested for 16 h)

Corrosion resistance:

- anticorrosive according to DIN EN 1670 class 3
- SO₂ corrosion test according to DIN EN ISO 6988 (15 cycles á 0,2 l SO₂, VdS class III)



The SO₂ corrosion resistance is not ensured for the DOM Protector® Basic/-plus version.

Protection class:

- IP 54



The DOM Protector® Basic/-plus and the version DOM Protector® DK/CH yield protection class IP 42.

Environmental behaviour:


According to VdS class III, for outdoor applications a weatherproof installation is necessary (e.g. by means of a roofed over entrance).

¹⁾ VdS: association of German property insurers

²⁾ BSI: German federal agency for security and information technology



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