

**Technical Data**
**DOM Protector® 125 kHz EE (emergency exits)**
**Variants:**

- DOM Protector® EE (emergency exit) with VdS<sup>1)</sup> approval, recommended by BSI<sup>2)</sup>, application in escape and emergency routes with locks demanding a well-defined cylinder cam position
- DOM Protector® EE Basic / Basic Plus without VdS approval, no BSI testing (available as from 2<sup>nd</sup> quarter 2011)
- DOM Protector® EE DK (with dismountable outer knob) protruding outer shaft (protrusion 6,5 mm or 10,5 mm)
- DOM Protector® EE FR (fire resistant) application in fireproof doors up to fire resistance class T90
- DOM Protector® EE OI (withot inside knob) prevention of unauthorised locking from the inside
- DOM Protector® EE WR (water resistant) enhanced resistivity against humidity (IP65)
- DOM Protector® EE PP (privacy protection) no storage of individual-related events
- DOM Protector® online for Ethernet networking
- For the installation in escape and emergency routes (EN 179, EN1125) the pertinent building regulations as well as the certificates of conformity of the respective lock manufacturer must be considered. The DOM Protector® EE is foreseen for locks without conformity with freewheel cylinders, demanding a well-defined cylinder cam position.

**Possible combinations of variants:**

	EE DK	EE OI	EE FR	EE WR	EE PP	EE online	DOM Protector EE	DOM Prot. Basic/-Plus EE
x = available								
⊗ = available as from 2nd quarter 2011								
o = not available								
EE DK	x	x	o	x	x	x	x <sup>*)</sup>	
EE OI		x	x	x	x	x	x	⊗
EE FR			x	x	x	x	x	o
EE WR				x	x	x	x	o
EE PP					x	x	x	⊗
EE online						x	x	o
DOM Protector EE								o
DOM Protector EE Basic/-Plus								

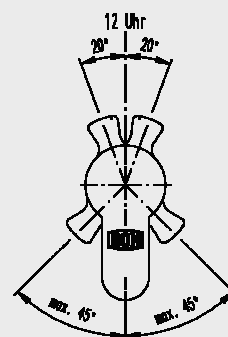
<sup>\*)</sup>The version DK matches the DOM Protector construction. Due to a reduced core drilling protection it is not approved by German VdS.

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**Maintenance:**

- The operation of the DOM Protector® EE in combination with door, lock and strike plate has to be checked every four weeks by the operator or the operator's authorised agent.
- After 100.000 cycles (via the outer knob) or ten years after initial operation a corrective maintenance of the DOM Protector® EE is necessary. Reaching this value, the necessity of a corrective maintenance is signalled by an orange flashing of the LED during a locking cycle.
- All applicable laws, standards and directives for emergency exit devices must be considered, as well as all instructions of the respective manufacturer of lock and strike plate.

**Position of cylinder cam:**

- The DOM Protector® 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  $6^{00} \pm 45^\circ$ .


**Power supply:**

- 1 piece Lithium battery 1/2AA, 3.6 V
- type ER-14250-M (LiSOCl<sub>2</sub>-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 (for < 100 ms)
- average quiescent current < 20 µA

**Battery life time:**

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, respectively.*

- 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: ±10 minutes/year  
at -20 and +65°C: -50 minutes/year

**Durability:**

- at least 100.000 cycles (according DIN EN 1303)

**Cylinder lengths / profiles:**

- minimum length 30/30 mm, maximum length 65/65 mm
- extendable in 5 mm steps
- mounting in Euro opening (DIN 18252, EN 1303)

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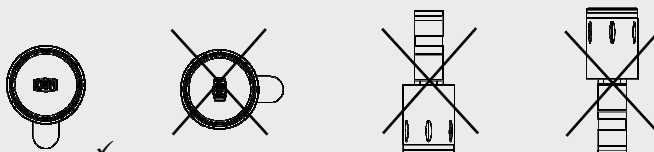
- outside knob:  $\varnothing$  30 mm, length 41 mm
- inside knob:  $\varnothing$  30 mm, length 30 mm
- optional with brass PVD coating

**Signalling:**

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

**Allowed installations:**

- DOM Protector® EE:



- DOM Protector® EE Basic/-Plus:



- The installation of the DOM Protector® EE in multipoint locks has to be checked. Consider the manufacturer's instructions of the respective lock and strike plate.
- With installed DOM Protector® EE, operation of the emergency exit device from the inside must be possible anytime (e.g. no collision with knob).
- For backsets < 25 mm the application is to be checked.

**Clutch duration:**

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

**Approvals and certifications:**

- in conformity with all applicable EC directives
- national laws have to be checked separately
- VdS BZ+ approval (VdS 2156-2)<sup>1)</sup>
- withstanding time against mechanical attacks accord. VdS C
- test according to BSI guideline TL-03405<sup>2)</sup>  
(recommended product according to BSI list TL-03400)



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

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



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

**Corrosion resistance:**

- anticorrosive according to DIN EN 1670 class 3
- 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>)



*The SO<sub>2</sub> corrosion resistance is not ensured for the DOM Protector® Basic/- Plus version.*

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**Temperature, relative humidity:**

temperature range:

- stocking: -25°C to +70°C
- operation: -20°C to +70°C

relative humidity:

- 20% to 99%, no condensation

tested according VdS 2156-2 and DIN IEC 60068-2-1/2/3/30

- damp heat, cyclic: 6 cycles of 12 h each
- cold: tested for 16 h at -25°C

**Protection class:**

- DOM Protector EE WR: IP 65
- DOM Protector EE: IP 54
- DOM Protector Basic/-Plus EE and EE DK: IP 42

**Environmental behaviour:**

- According to VdS guideline 2156-2, for outdoor applications a weatherproof installation is necessary (e.g. by means of a roofed over entrance)

**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

**Programming devices:**

storage of programming devices:

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

**Event memory:**

- ring buffer for the latest 2.000 events



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

**Infrared interface:**

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

**Inductive transponder interface:**

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

**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: ≤ 7,5 dBm e.r.p.
- in conformity with ETSI EN 300 220

**Transponder types:**

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

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### Storage of access authorisations in the cylinder: („conventional“)

memory contents:

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



*For the DOM Protector<sup>®</sup> Basic solely 1.000 conventional transponders can be stored.*

supported transponders:

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

### Storage of access authorisations on the transponders resp. virtual network:

supported transponders:

- solely available for Hitag S transponders



*Not possible with the DOM Protector Basic.*

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

### Temporal definition of authorisations:

- 31 freely definable time zones with three arbitrary time intervals per day
- definition of holidays

1) VdS: association of German property insurers

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



*For the DOM Protector<sup>®</sup> EE there is a separate manual available containing mandatory instructions regarding installation and maintenance.*



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