

**Technical Data**
**DOM Protector®**
**Power supply:** <sup>1</sup>

- 1 Lithium battery ½AA, 3,6 Volts
- type ER-14250-M (LiSOCl<sub>2</sub> system)

**Current consumption:**

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

**Battery life time and data preservation:**

 at room temperature (+20°C): <sup>2</sup>

- typical 50.000 locking cycles or
- typical 3 years in case of non-use

intelligent battery management:

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

**Durability:**

- at least 100.000 cycles (according DIN EN 1303)

**Cylinder lengths and types:** <sup>3</sup>

lengths:

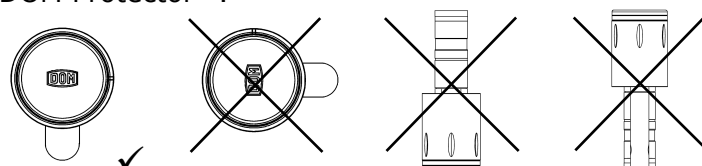
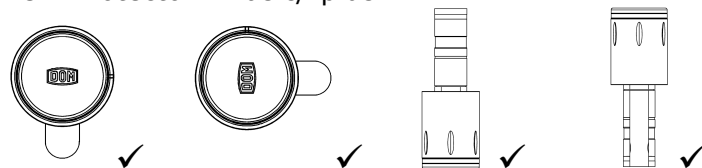
- |                        | min.     | max.       |
|------------------------|----------|------------|
| • half cylinder:       | 30/- mm  | 80/- mm    |
| • double cylinder:     | 30/30 mm | 80/80 mm   |
| • glass door cylinder: | 30/10 mm | 40/27,5 mm |
- higher lengths on request
  - extendable in 5 mm steps (for lengths > 40 mm modular (factory-made))
  - version KL with basic length 27,5 mm
  - version DK with dismountable outer knob

profile:

- mounting in Euro opening (DIN 18252, EN 1303)
- other profiles on request
- for backset < 25 mm application is to be checked
- freewheel functionality: free wheeling cam
- For the installation in escape and emergency routes the pertinent building regulations must be complied with. For such applications there is a special version DOM Protector® EE.

**Allowed installation orientations:**

DOM Protector®:


 DOM Protector® Basic/-plus: <sup>4</sup>

**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

continuation:

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<b>Signalling:</b>	<ul style="list-style-type: none"> <li>• optical signalling (red/green)</li> <li>• circular lighting segments in knob cover</li> <li>• illuminated DOM-logo</li> </ul>
<b>Infrared interface:</b>	<ul style="list-style-type: none"> <li>• positioning: inside knob, behind DOM-Logo</li> <li>• wave length: 880 nm (peak sensitivity)</li> <li>• angle of half intensity: ±24°</li> <li>• data rate: 38,4 kBit/sec</li> </ul>
<b>Radio online interface:</b> <i>(optional, not for Basic version)</i>	<p>connection to DOM RF NetManager via integrated radio module (networking via Ethernet / TCP/IP):</p> <ul style="list-style-type: none"> <li>• range: typical 3 m</li> <li>• frequency: 868 MHz</li> <li>• radiated power: ≤ 7,5 dBm e.r.p.</li> <li>• in conformity with ETSI EN 300 220</li> </ul>
<b>Inductive transponder interface:</b>	<ul style="list-style-type: none"> <li>• reading range: up to 5 cm</li> <li>• frequency: 125 kHz</li> <li>• field strength in 10 m distance: &lt; -6 dB µA/m</li> <li>• in conformity with ETSI EN 300 330</li> </ul> <p>Hitag transponders: Hitag 1, Hitag 2, Hitag S EM transponders: 4100, 4102, 4150, 4450</p> <p>transponder types:</p> <ul style="list-style-type: none"> <li>• DOM Tac, DOM Clip Tac, ISO card transponder</li> <li>• DOM ((o)) butler transponders with passive inlay</li> <li>• other types have to be checked</li> </ul>
<b>Clutch duration:</b>	<ul style="list-style-type: none"> <li>• adjustable ranging from 1 to 30 seconds</li> </ul>
<b>Memory contents:</b>	<p>storage of access authorisations in the cylinder:<sup>5</sup></p> <ul style="list-style-type: none"> <li>• max. 3.000 conventional transponders with 4 byte transponder serial number</li> <li>• max. 32.000 subscribed transponders with object specific identifier</li> </ul> <p>alternatively: storage of access authorisations on the transponder (data for Hitag S):<sup>5</sup></p> <ul style="list-style-type: none"> <li>• storage of max. 260 areal or 65 single-authorisations on the transponder</li> <li>• storage of max. 32 time zones</li> <li>• thereof 31 freely definable with up to 3 time intervals per day</li> </ul> <p>storage of events:<sup>5</sup></p> <ul style="list-style-type: none"> <li>• ring buffer for the last 2.000 events</li> </ul> <p>storage of programming media:</p> <ul style="list-style-type: none"> <li>• max. 5 programming cards and 5 PDAs</li> </ul>
<b>Administration by software:</b>	<p>DOM Protector® offline:</p> <ul style="list-style-type: none"> <li>• ELS-Software V4.0 or higher</li> <li>• ELS4PDA-Software V3.0 or higher</li> </ul> <p>DOM Protector® online:</p> <ul style="list-style-type: none"> <li>• ELS-Software V4.1 or higher</li> <li>• ELS4PDA-Software V3.1 or higher</li> </ul>

continuation:

Technical Data	DOM Protector®
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**Approvals and Certifications:**

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|---|
| • in conformity with all applicable EC directives                           |
| • national laws have to be checked separately                               |
| • VdS BZ+ M107314 (VdS 2156-2)  |
| • withstanding time against mechanical attacks according VdS C <sup>6</sup> |
| • tested according BSI 7500 (list TL-03400) <sup>6</sup>                    |

**Temperature range:**

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|--|
| • stocking: -25°C to +70°C   |
| • operation: -25°C to +70°C (according DIN IEC 60068-2-1/2, VdS class III) |

**Relative humidity:**

- |  |
|--|
| • 20% to 99%, no condensation (according DIN IEC 60068-2-1/2, VdS class III) |
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**Corrosion resistance:**

- |   |
|---|
| • anticorrosive according to DIN EN 1670 class 3  |
| • SO <sub>2</sub> corrosion test according DIN EN ISO 6988: 15 cycles with 0,2 l SO <sub>2</sub> <sup>7</sup> |

**Protection class:**

- |                      |
|----------------------|
| • IP 54 <sup>8</sup> |
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**Environmental behaviour:**

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| • According to VdS class III, for outdoor applications a weatherproof installation is necessary (e.g. roofed over entrance). |
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**Notes**

- <sup>1</sup> Warning notice for LiSOCl<sub>2</sub> batteries: 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.
- <sup>2</sup> For the DOM Protector® online a battery life time of 40.000 cycles or 2 years for non-use is expected.
- <sup>3</sup> The glass door cylinder is extendable in steps of 2,5 mm on the inner side. The basic length 27,5 mm is only available for the DOM Protector® Basic/-plus version.  
The version DK with dismountable outer knob is only available as DOM Protector® without VdS approval.
- <sup>4</sup> Also the DOM Protector® Basic/-plus is not provided for the installation in padlocks.
- <sup>5</sup> The data are valid for the DOM Protector® and for the DOM Protector® Basic-plus. For the DOM Protector® Basic, a maximum of 1.000 conventional transponders and 1.000 events can be stored.
- <sup>6</sup> VdS approved (association of German property insurers) and BSI tested (German federal agency for security and information technology) solely for the DOM Protector®, but not for the version DK (especially not for the DOM Protector® Basic/-plus).
- <sup>7</sup> The SO<sub>2</sub> corrosion resistance is not ensured for the DOM Protector® Basic/-plus.
- <sup>8</sup> These data are valid for the DOM Protector®. The DOM Protector® Basic/-plus yields protection class IP 42.

This data sheet is not valid for the DOM Protector® EE  
(emergency exit, for the installation in escape and emergency routes).  
For the DOM Protector® EE a separate data sheet is available.

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