For rapid toll processing
Rapid, reliable, and economical processing of vehicles is essential when collecting toll charges at bridges, tunnels and on roads. Toll series barriers from Magnetic have been specially designed for this situation. The innovative MHTM™ drive at the heart of the barriers is characterized by its speed, lack of maintenance and energy efficiency, thus keeping long-term costs down. The Toll barriers can be adapted to meet individual requirements: there are five models with opening times of from 1.3–0.3 s, which can be equipped with a variety of control devices, flanges and barrier arms. All barrier packages are provided with a swing-away flange as standard. In the case of a collision with a vehicle, the barrier arm is released and can be manually re-engaged afterwards. This protects the barrier arms, vehicle, and drive unit. There is also the optional auto-return-swing-away flange for the foam barrier arms, which automatically re-engages after a collision with a vehicle.

Effective toll processing
Toll barriers from Magnetic are the optimum solution for all toll applications thanks to their speed, reliability and low operating costs. Thanks to their high energy efficiency, extremely long service lives, and simple maintenance, barriers from Magnetic are particularly cost-effective – an investment that will certainly pay off!

Innovative drive technology
The MHTM™ drive unit operates energy-efficiently, quietly, and maintenance-free. Its high torque ensures best possible operation even under extreme weather conditions.

Individual configuration
Five models, three control units, three different barrier arm types – the Toll barriers can be individually adapted to your requirements. Our staff can help you figure out which configuration best suits your application.

Easy access to components
Two simple steps: control systems and the drive unit are easily reached by removing the top cover and front plate. This increases user-friendliness and accelerates commissioning and service.
Toll
Toll barrier

- Opening and closing times as fast as 0.3 s
- Very low operating costs thanks to the efficient and durable MHTM™ drive
- Ease-of-use and optimum accessibility thanks to well thought-out design
- Acclaimed design: German Design Award 2014 and red dot design award 2012
- Designed for 10 million opening and closing cycles

### Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Toll</th>
<th>Toll Pro</th>
<th>Toll Pro 2</th>
<th>Toll HighSpeed</th>
<th>Toll HighSpeed 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barrier width</td>
<td>max. 12 ft</td>
<td>max. 10 ft</td>
<td>max. 10 ft</td>
<td>max. 10 ft</td>
<td>max. 12 ft (with 2 barriers)</td>
</tr>
<tr>
<td>Opening/closing time</td>
<td>1.3 s</td>
<td>0.9 s</td>
<td>0.7 s</td>
<td>0.6 s</td>
<td>0.3 s</td>
</tr>
<tr>
<td>Power consumption</td>
<td>max. 95 W</td>
<td>max. 95 W</td>
<td>max. 225 W</td>
<td>max. 320 W</td>
<td>max. 450 W (ea.)</td>
</tr>
<tr>
<td>Drive technology</td>
<td>MHTM™</td>
<td>MHTM™</td>
<td>MHTM™</td>
<td>MHTM™</td>
<td>MHTM™</td>
</tr>
<tr>
<td>Voltage</td>
<td>85 – 264 VAC, 50/60 Hz</td>
<td>85 – 264 VAC, 50/60 Hz</td>
<td>85 – 264 VAC, 50/60 Hz</td>
<td>85 – 264 VAC, 50/60 Hz</td>
<td>85 – 264 VAC, 50/60 Hz</td>
</tr>
<tr>
<td>Duty cycle</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
</tr>
<tr>
<td>Housing dimensions (W x D x H)</td>
<td>12.4 x 14.2 x 43.9 in</td>
<td>12.4 x 14.2 x 43.9 in</td>
<td>12.4 x 14.2 x 43.9 in</td>
<td>12.4 x 14.2 x 43.9 in</td>
<td>12.4 x 14.2 x 43.9 in</td>
</tr>
<tr>
<td>Enclosure rating</td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 54</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-22 - +133 °F</td>
<td>-22 - +131 °F</td>
<td>-22 - +131 °F</td>
<td>-22 - +131 °F</td>
<td>-22 - +131 °F</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 92.6 lb</td>
<td>approx. 92.6 lb</td>
<td>approx. 94.8</td>
<td>approx. 97 lb</td>
<td>approx. 97 lb</td>
</tr>
</tbody>
</table>

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Toll</th>
<th>Toll Pro</th>
<th>Toll Pro 2</th>
<th>Toll HighSpeed</th>
<th>Toll HighSpeed 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barrier arm type</td>
<td>3 models available</td>
<td>3 models available</td>
<td>3 models available</td>
<td>3 models available</td>
<td>2 models available</td>
</tr>
<tr>
<td>Control system</td>
<td>3 models available</td>
<td>3 models available</td>
<td>3 models available</td>
<td>MGC w/o loop detector</td>
<td>MGC w/o loop detector</td>
</tr>
<tr>
<td>Number of digital inputs</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Number of relay/digital outputs</td>
<td>6/4</td>
<td>6/4</td>
<td>6/4</td>
<td>6/4</td>
<td>6/4</td>
</tr>
<tr>
<td>Closing speed</td>
<td>adjustable</td>
<td>adjustable</td>
<td>adjustable</td>
<td>adjustable</td>
<td>adjustable</td>
</tr>
</tbody>
</table>

### Control Systems

<table>
<thead>
<tr>
<th>Feature</th>
<th>MGC without loop detector</th>
<th>MGC with loop detector</th>
<th>MGC Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 detector channels</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Adjustable inputs/outputs</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>3 opening speeds</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

### Standard barrier colors

- **Orange (RAL 2000)**
- **White (RAL 9010)**

### Standard door color

- **Black-Grey (Anthracite)** (similar to RAL 7021)
<table>
<thead>
<tr>
<th>Options</th>
<th>Toll</th>
<th>Toll Pro</th>
<th>Toll Pro 2</th>
<th>Toll HighSpeed</th>
<th>Toll HighSpeed 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special colors</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Round barrier arms (MicroBarrier arms-T) (D=)</td>
<td>up to 10 ft</td>
<td>up to 10 ft</td>
<td>up to 10 ft</td>
<td>up to 10 ft</td>
<td>up to 6 ft</td>
</tr>
<tr>
<td>Octagonal barrier arms (MicroBarrier arms-S) (D=)</td>
<td>up to 12 ft</td>
<td>up to 8 ft</td>
<td>up to 8 ft</td>
<td>up to 8 ft</td>
<td></td>
</tr>
<tr>
<td>Foam barrier arm (MicroBarrier arms-AT) (D=)</td>
<td>up to 10 ft</td>
<td>up to 10 ft</td>
<td>up to 10 ft</td>
<td>up to 10 ft</td>
<td>up to 6 ft</td>
</tr>
<tr>
<td>Swing-away flange</td>
<td>all barrier arms</td>
<td>all barrier arms</td>
<td>all barrier arms</td>
<td>all barrier arms</td>
<td>all barrier arms</td>
</tr>
<tr>
<td>Auto-return-swing-away flange</td>
<td>only foam barrier arm</td>
<td>only foam barrier arm</td>
<td>only foam barrier arm</td>
<td>only foam barrier arm</td>
<td>only foam barrier arm</td>
</tr>
<tr>
<td>Barrier arm presence sensor</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warning lights</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>Hood lights</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Key-operated switch</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio module</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethernet module</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS485 module</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN module (counting)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Second detector module</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>GSM module</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>Photoelectric light barrier</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery backup</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensional drawings**

**Toll with round barrier arm (MicroBarrier arms-T)**

**Toll with soft barrier arm (MicroBarrier arms-AT)**

The dimensions of the housings are identical for all models.
Access to Progress

Magnetic stands for pioneering products – in every way. Our access control systems for vehicles or pedestrians clear the way for thousands of people every day – at car parks, toll gates, stations, airports and in buildings. Our technology is also pioneering, however: with innovative drives, intelligent control systems and well thought-out details it provides maximum safety and longevity. Are you also on the path to Magnetic?

Vehicle barriers
- Access barriers
- Parking barriers
- Toll barriers
- Traffic barriers
- Special barriers

Pedestrian gates
- Turnstiles
- Swing gates
- Tripod gates
- Retractable gates
- Wing gates

Terminals
- Cars
- Trucks

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