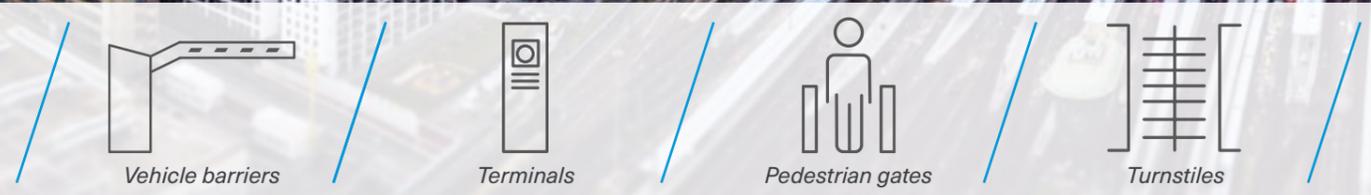




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Solutions for access control

Vehicle barriers	Access barriers		4	Access barriers
	Access and Access-L	10		
	Access Pro and Access Pro-L	14		
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All information and illustrations are subject to (technical) changes and errors. The illustrations may only be similar to the actual products in some cases.

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Vehicle barriers

MHTM™ MicroDrive



The whole world of vehicle barriers

Magnetic offers a comprehensive range of vehicle barriers, whose width, opening speed, functions and accessories can be optimally adapted to the desired application. A common characteristic of all models is their robust, service-friendly design, the economical MHTM™ drive technology and an exceptional service life of up to 10 million opening and closing cycles (wear parts excluded).



Innovative drive technology

The MHTM™ drive unit is maintenance-free, energy-efficient and quiet. The high torque guarantees the best possible operation even under extreme weather conditions.



Legal security

All Magnetic barriers have a Declaration of Conformity in compliance with the Machinery Directive and a Declaration of Performance in line with the Construction Products Directive. Thus operators and those responsible for commissioning are always on the safe side in questions of liability.



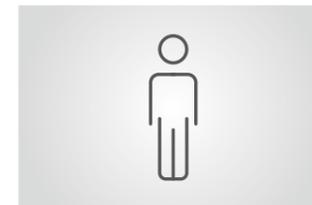
Low operating costs

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!



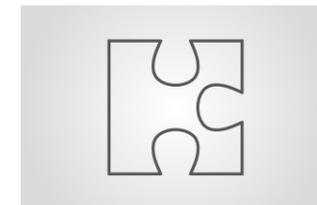
Easy access to components

Two simple steps: control systems and the drive unit are easily reached by removing the cover and front plate. This increases user-friendliness and accelerates commissioning and service.



Approved for use with movement of persons

Thanks to its low impact forces and safety settings, when the legally required safety equipment has been installed, Access is approved for use wherever the movement of persons cannot be ruled out for structural reasons.



Individual configuration

Various different barrier booms, a comprehensive range of configuration options and a large selection of options and accessories – the vehicle barriers from Magnetic can be individually adapted to the desired application and the special requirements at the installation location.

Barriers for various different applications



Access – access barriers

Barriers for a variety of applications, such as for vehicle access control on company premises and in underground car parks, with an award-winning design, high cost efficiency and access for pedestrians

Opening and closing speed

1.3 s (Access Pro) to 8 s (Access XXL)

Barrier width

max. 3.5 m (Access/Access Pro) to 10 m (Access XXL)

Barrier booms

VarioBoom with lighting, an extension set or articulated mechanics
MicroBoom for large barrier widths and the attachment of skirts and climb-over prevention

[From page 8](#)



Parking – parking barriers

Barriers for controlling access to parking spaces and car parks with quick opening times, low operating costs and a high level of reliability

Opening and closing speed

1.3 s

Barrier width

max. 3.5 m

Barrier booms

VarioBoom with lighting, an extension set or articulated mechanics

[From page 26](#)



Toll – toll barriers

Barriers for the quick and reliable collection of toll charges with extremely fast opening and closing speeds, optimal accessibility and breakaway options to ensure high operational readiness

Opening and closing speed

0.3 to 1.3 s

Barrier width

max. 1.5 to 3.0 m

Barrier booms

Soft boom with automatic swing-away flange
Round boom with swing-away flange
Rectangular boom with swing-away flange

[From page 30](#)



Traffic – horizontal barriers

Horizontal barriers for controlling vehicles and pedestrians in areas with low ceiling heights and for blocking traffic that alternates in longitudinal and transverse directions, even when the lanes have different widths

Opening and closing speed

2.0 to 4.0 s

Barrier width

max. 3.5 to 6.0 m

Barrier booms

MicroBoom straight
MicroBoom with articulated mechanics

[From page 48](#)

Access

Find the right barrier

Customised Access barriers

There are multiple possibilities for individually adapting the vehicle barriers to the requirements of the installation location: An important criterion is the opening and closing speed, while the available options and accessories can also be an important consideration when selecting a certain model. However, the barrier boom is often the decisive factor for many customers because it is the boom that makes an access barrier more than simply a housing with a motor. The Magnetic range includes two fundamentally different types of barrier boom:

VarioBoom

The VarioBoom is connected to the barrier housing via an articulated arm. The unusual geometry enables a significantly more discrete housing with the same barrier height.

MicroBoom

The MicroBoom is directly connected to the flange on the barrier housing. The matching barrier models are taller as a result but they can also be used for larger barrier widths and can accommodate barrier booms with skirts.

Barrier housings								
	Access	Access-L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	
	From page 10	From page 10	From page 14	From page 14	From page 18	From page 22	From page 22	
VarioBoom – barrier boom								
VarioBoom (standard lengths)	2.5 m	2.5 m	2.5 m	2.5 m	–	–	–	
> Customer-specific shortening of the standard lengths is possible for a service charge	3.0 m	3.0 m	3.0 m	3.0 m				
	3.5 m	3.5 m	3.5 m	3.5 m				
		4.5 m		4.5 m				
		5.0 m		5.0 m				
				6.0 m				
VarioBoom with extension set	up to 3.5 m	up to 5.0 m	up to 3.5 m	up to 5.0 m	–	–	–	
> Offers space for information and advertising								
VarioBoom with lighting	up to 3.5 m	up to 5.0 m	up to 3.5 m	up to 6.0 m	–	–	–	
> Energy-efficient light strips								
> Red LEDs: closed, red flashing LEDs: in motion, green LEDs: open								
VarioBoom with articulated boom	up to 3.5 m	up to 4.5 m	up to 3.5 m	up to 4.5 m	–	–	–	
> For low ceiling heights								
MicroBoom – barrier boom								
MicroBoom/MicroBoom XXL	–	–	–	–	3.5 m	6.0 m	6.0 m	
> For large barrier widths					4.5 m	7.0 m	7.0 m	
					5.0 m	8.5 m	8.5 m	
					6.0 m		9.0 m	
							10.0 m	
MicroBoom with skirt	–	–	–	–	up to 5.0 m ¹ up to 5.5 m ²	up to 8.5 m	up to 10.0 m	
> Prevents crawling under the barrier								
MicroBoom with skirt and climb-over prevention	–	–	–	–	up to 4.3 m ¹ up to 4.7 m ²	up to 6.0 m	up to 6.0 m	
> Prevents crawling under and climbing over the barrier								
> Height 1.30 m								
MicroBoom with skirt and high climb-over prevention	–	–	–	–	up to 4.0 m ¹ up to 4.5 m ²	up to 6.0 m	up to 6.0 m	
> Prevents crawling under and climbing over the barrier								
> Height 1.80 m								
Speed								
Opening time (in sec.)	2.2 s	4.0 s	1.3/1.8/2.5 s	4.0/6.0/8.0 s	4.0/6.0/8.0 s	6.0/8.0/10.0 s	8.0/10.0/12.0 s	

¹ with support posts

² with hinged supports

Access and Access-L

Access barrier

- > High level of functionality for numerous applications
- > Very low operating costs thanks to efficient and long-lived MHTM™ drive
- > Ease-of-use and optimum accessibility thanks to well thought-out design
- > Legal security with Declarations of Conformity and Performance
- > Price-winning design: German Design Award 2014 and Red Dot Design Award 2012
- > Designed for 10 million opening and closing cycles



Technical data	Access	Access-L
Blocking width	Max. 3.5 m	Max. 5.0 m
Opening/closing time	2.2 s	4.0 s
Power consumption	Max. 25 W	Max. 30 W
Drive technology	MHTM™	MHTM™
Voltage	85–264 VAC, 50/60 Hz	85–264 VAC, 50/60 Hz
Duty cycle	100 %	100 %
Housing dimensions (W x D x H)	315 x 360 x 915 mm	315 x 360 x 915 mm
Enclosure rating	IP 54	IP 54
Temperature range	-30 to +55 °C	-30 to +55 °C
Weight	40 kg	40 kg

Features	
Standard colours	RAL 2000
VarioBoom barrier boom	Standard
Control system	MGC
Integrated 2-channel detector for induction loops	Standard
Modular expansion of control system	Radio receiver and other detector modules
Variable I/O assignment	-
No. of digital inputs	8
No. of relays/digital outputs	6/4
Input with test for safety light barrier/Laser scanner	1
Selectable closing speed	3 levels
Selectable opening speed	-

Standard colours

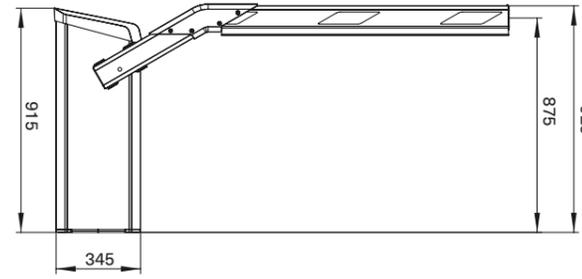


Orange (RAL 2000)

Special colours are also available on request and can be selected from the table of four-digit RAL colours.

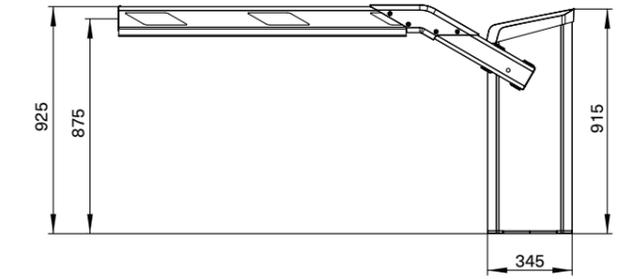
Dimensional drawings

Access/Access-L – left variant, left view



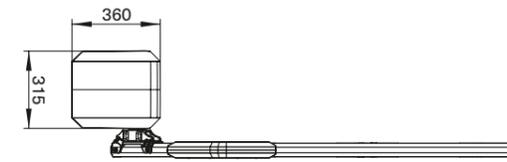
L

Access/Access-L – right variant, right view



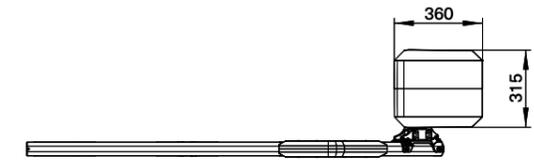
R

Top view



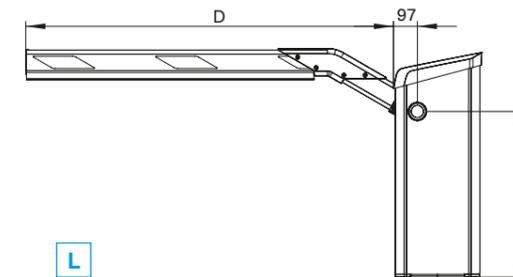
L

Top view



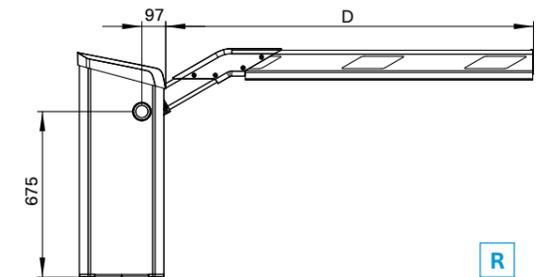
R

Right view



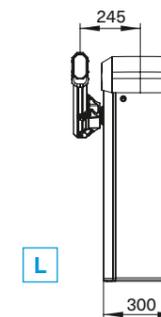
L

Left view



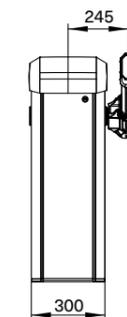
R

Front view



L

Front view



R

All barriers from Magnetic are available as left **L** and right **R** versions. If one looks at the barrier housing down the boom from its tip, the boom is on the left in the L variant and on the right with the R variant.

Access and Access-L

Access barriers



Products in basic configuration

Article description	Article number	Article number
Barrier Access	right version	left version
Access, orange, blocking width max. 3.5 m	ACCESS-RA00000	ACCESS-LA00000
Barrier Access-L	right version	left version
Access-L, orange, blocking width max. 5.0 m	ACCESS-L-RA00000	ACCESS-L-LA00000

The barriers Access and Access-L will in the basic configuration be delivered with controller MGC with 2-channel loop detector, flange (FLVB01), rear boom part (SBH01) as well as u-shaped rails for quick and easy installation.

Special colours for the barrier housing

Article number	Product description
SL01	Barrier housing and top cover in the same colour, doors in standard colour (black grey, similar RAL 7021) ²
SL02	Barrier housing, top cover and doors in same colour ²
SL03	Barrier housing and top cover in the same colour, doors in other selectable colour ²
SL04	Barrier housing, top cover and doors in different colours ²

Barrier booms	
Article number	Article description
Barrier booms for Access	
SBV-N025	VarioBoom front, blocking width 2.5 m ³
SBV-N030	VarioBoom front, blocking width 3.0 m ³
SBV-N035	VarioBoom front, blocking width 3.5 m ³
EP01	Extra charge for shortening of barrier boom
KBS11	Articulated boom length D = max. 3.5 m, individual height H = max. 2.5 m ⁴
KBB01	Kit set for articulated boom D = max. 3.5 m, H = max. 2.5 m ⁴
KBKS	Wiring set for articulated boom, needed for electrical components in the barrier boom
Barrier booms for Access-L	
SBV-N025	VarioBoom front, blocking width 2.5 m ³
SBV-N030	VarioBoom front, blocking width 3.0 m ³
SBV-N035	VarioBoom front, blocking width 3.5 m ³
SBV-N045	VarioBoom front, blocking width 4.5 m ³
SBV-N050	VarioBoom front, blocking width 5.0 m ³
EP01	Extra charge for shortening of barrier boom
KBS11	Articulated boom length D = max. 3.5 m, individual height H = max. 2.5 m ⁴
KBS15	Articulated Boom length D = max. 4.5 m, individual height H = max. 3.5 m ⁴
KBB01	Kit set for articulated boom D = max. 3.5 m, H = max. 2.5 m ⁴
KBB02	Kit set for articulated boom D = max. 4.5 m, H = max. 3.5 m ⁴

Spare parts

A comprehensive digital list of spare parts for Access and Access-L is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ Support post and pendulum support required for blocking width > 3.5 m.

² The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.

³ Straight boom section (next to connector), incl. edge protection..

⁴ Barrier boom has to be ordered additionally. Please indicate passage width D and height H on your purchase order.

Options and accessories for barriers	
Sensors	
Induction loops	•
Photoelectric safety switches	•
Laser scanner	•
Operation	
Radio remote control	•
Control console	•
Switches	•
Connectivity	
Plug-in module	•
GSM module	•
Signalling	
Flashlights and flashing lights for barriers	•
Signal generator, mast and accessories	•
Other accessories	
Battery backup	•
Installation accessories	•
Built-in components	•
Service module and software	•
Order information for options and accessories from p. 34.	

Options and accessories for barrier booms

Boom illumination and individualisation	
Boom illumination with individual red LED lights	•
Boom illumination with red/green LED strips	•
Expansion sets for VarioBoom	•
Skirt	
Standard skirt	
Climb-over prevention skirt	
Supports for long barrier booms	
Support post	•
Pendulum support	•
Other accessories	
Electromechanical boom locks	•
Boom contact	
Flange with break-away option	
Order information for options and accessories for barrier booms from p. 42.	

Access Pro and Access Pro-L

Access barriers

- > Opening and closing time of up to 1.3 s
- > Barrier width of up to 3.5 m (Access Pro) or up to 6.0 m (Access Pro-L)
- > Modular expandable control system with adjustable speeds
- > Legal security thanks to conformity and performance declarations
- > Approved for use with passing pedestrians (with 2.5 s closing times)
- > Designed for 10 million opening and closing cycles



Technical data	Access Pro	Access Pro-L
Blocking width	Max. 3.5 m	Max. 6.0 m
Opening/closing time	1.3 s	4.0 s
Power consumption	Max. 95 W	Max. 25 W
Drive technology	MHTM™	MHTM™
Voltage	85–264 VAC, 50/60 Hz	85–264 VAC, 50/60 Hz
Duty cycle	100 %	100 %
Housing dimensions (W x D x H)	315 x 360 x 915 mm	315 x 360 x 915 mm
Enclosure rating	IP 54	IP 54
Temperature range	-30 to +55 °C	-30 to +55 °C
Weight	40 kg	40 kg

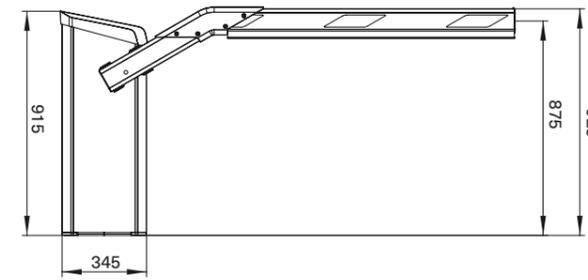
Features	
Standard colours	RAL 2000, 9006, 9007
VarioBoom barrier boom	Standard
Control system	MGC Pro
Integrated 2-channel detector for induction loops	Standard
Modular expansion of control system	Freely expandable
Variable I/O assignment	Standard
No. of digital inputs	8
No. of relays/digital outputs	6/4
Input with test for safety light barrier/Laser scanner	1
Selectable closing speed	3 levels
Selectable opening speed	3 levels

Standard colours		
		
Orange (RAL 2000)	White aluminium (similar to RAL 9006)	Grey aluminium (similar to RAL 9007)

Special colours are also available on request and can be selected from the table of four-digit RAL colours.

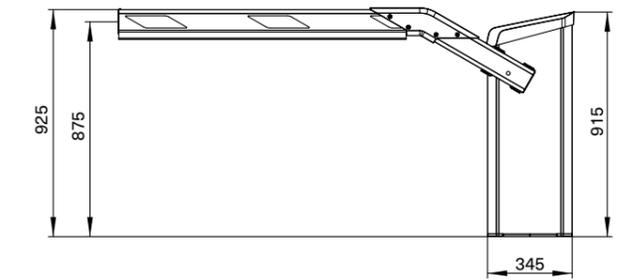
Dimensional drawings

Access Pro/Access Pro-L – left variant, left view



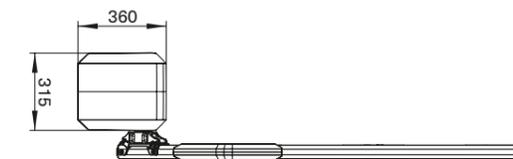
L

Access Pro/Access Pro-L – right variant, right view



R

Top view



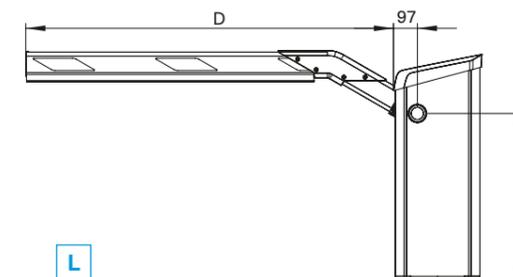
L

Top view



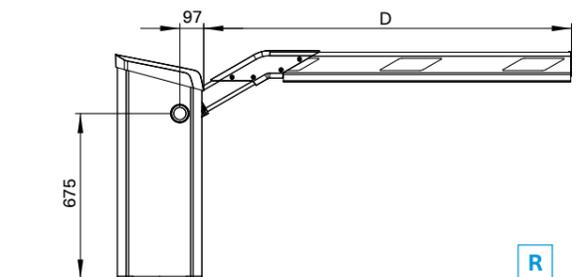
R

Right view



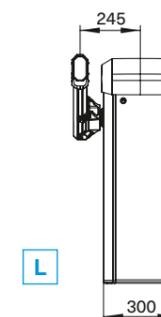
L

Left view



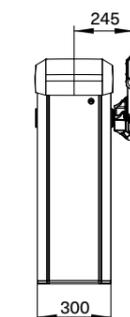
R

Front view



L

Front view



R

All barriers from Magnetic are available as left **L** and right **R** versions. If one looks at the barrier housing down the boom from its tip, the boom is on the left in the L variant and on the right with the R variant.

Access Pro and Access Pro-L

Access barriers



Products in basic configuration

Product description	Article number	Article number
Barrier Access Pro	right version	left version
Access Pro, orange, blocking width max. 3.5 m	ACCESS PRO-RA00000	ACCESS PRO-LA00000
Access Pro, Grey aluminium, blocking width max. 3.5 m	ACCESS PRO-RA00010	ACCESS PRO-LA00010
Access Pro, white aluminium, blocking width max. 3.5 m	ACCESS PRO-RA00020	ACCESS PRO-LA00020
Barrier Access Pro-L	right version	left version
Access Pro-L, orange, blocking width max. 6.0 m ¹	ACCESS PRO-L-RA00000	ACCESS PRO-L-LA00000
Access Pro-L, Grey aluminium, blocking width max. 6.0 m ¹	ACCESS PRO-L-RA00010	ACCESS PRO-L-LA00010
Access Pro-L, white aluminium, blocking width max. 6.0 m ¹	ACCESS PRO-L-RA00020	ACCESS PRO-L-LA00020

The barriers Access Pro and Access Pro-L will in the basic configuration be delivered with controller MGC Pro with 2-channel loop detector, flange (FLVB01), rear boom part (SBH01) as well as u-shaped rails for quick and easy installation.

Special colours for the barrier housing

Article number	Product description
SL01	Barrier housing and top cover in the same colour, doors in standard colour (black grey, similar RAL 7021) ²
SL02	Barrier housing, top cover and doors in same colour ²
SL03	Barrier housing and top cover in the same colour, doors in other selectable colour ²
SL04	Barrier housing, top cover and doors in different colours ²

Barrier booms

Article number	Product description
Barrier booms for Access Pro	
SBV-N025	VarioBoom front, blocking width 2.5 m ³
SBV-N030	VarioBoom front, blocking width 3.0 m ³
SBV-N035	VarioBoom front, blocking width 3.5 m ³
EP01	Extra charge for shortening of barrier boom
KBS11	Articulated boom length D = max. 3.5 m, individual height H = max. 2.5 m ⁴
KBB01	Kit set for articulated boom, D = max. 3.5 m, H = max. 2.5 m ⁴

Barrier booms for Access Pro-L

SBV-N025	VarioBoom front, blocking width 2.5 m ³
SBV-N030	VarioBoom front, blocking width 3.0 m ³
SBV-N035	VarioBoom front, blocking width 3.5 m ³
SBV-N045	VarioBoom front, blocking width 4,5 m ³
SBV-N050	VarioBoom front, lane width 5.0 m ³
SBV-N060	VarioBoom front, blocking width 6.0 m ³
EP01	Extra charge for shortening of barrier boom
KBS11	Articulated boom length D = max. 3.5 m, individual height H = max. 2.5 m ⁴
KBS15	Articulated boom length D = max. 4.5 m, individual height H = max. 3.5 m ⁴
KBB01	Kit set for articulated boom, D = max. 3.5 m, H = max. 2.5 m ⁴
KBB02	Kit set for articulated boom, D = max. 4.5 m, H = max. 3.5 m ⁴

Spare parts

A comprehensive digital list of spare parts for Access Pro and Access Pro-L is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

- ¹ Support post and pendulum support required for blocking width > 3.5 m.
- ² The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.
- ³ Straight boom section (next to connector), incl. edge protection.
- ⁴ Barrier boom has to be ordered additionally. Please indicate passage width D and height H on your purchase order.
- ⁵ Only available up to a blocking width of 3.5 m.

Options and accessories for barriers

Sensors	
Induction loops	•
Photoelectric safety switches	•
Laser scanner	•
Operation	
Radio remote control	•
Control console	•
Key switches	•
Connectivity	
Plug-in module	•
GSM module	•
Signalling	
Flashlights and flashing lights for barriers	•
Signal generator, mast and accessories	•
Other accessories	
Battery backup	•
Installation accessories	•
Built-in components	•
Service module and software	•

Order information for options and accessories from p. 34.

Options and accessories for barrier booms

Boom illumination and individualisation	
Boom illumination with individual red LED lights	•
Boom illumination with red/green LED strips	•
Expansion sets for VarioBoom	•
Skirt	
Standard skirt	
Climb-over prevention skirt	
Supports for long barrier booms	
Support post	•
Pendulum support	•
Other accessories	
Electromechanical boom locks	•
Boom contact	•
Flange with break-away option	

Order information for options and accessories for barrier booms from p. 42.

Access Pro-H

Access barriers

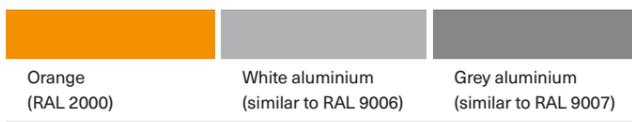
- > High security with optional boom skirts
- > Very low operating costs thanks to efficient and long-lived MHTM™ drive
- > Ease-of-use and optimum accessibility thanks to well thought-out design
- > Legal security with Declarations of Conformity and Performance
- > Price-winning design: German Design Award 2014 and Red Dot Design Award 2012
- > Designed for 10 million opening and closing cycles



Technical data	Access Pro-H
Blocking width	Max. 6.0 m
Opening/closing time	4.0 s
Power consumption	Max. 25 W
Drive technology	MHTM™
Voltage	85 – 264 VAC, 50/60 Hz
Duty cycle	100 %
Housing dimensions (W x D x H)	315 x 360 x 1115 mm
Enclosure rating	IP 54
Temperature range	-30 to +55 °C
Weight	44 kg

Features	Access Pro-H
Standard colours	RAL 2000, 9006, 9007
VarioBoom barrier boom	MicroBoom
Control system	MGC Pro
Integrated 2-channel detector for induction loops	Standard
Modular expansion of control system	Standard
Variable I/O assignment	Standard
No. of digital inputs	8
No. of relays/digital outputs	6/4
Input with test for safety light barrier/Laser scanner	Standard
Selectable closing speed	3 levels
Selectable opening speed	3 levels

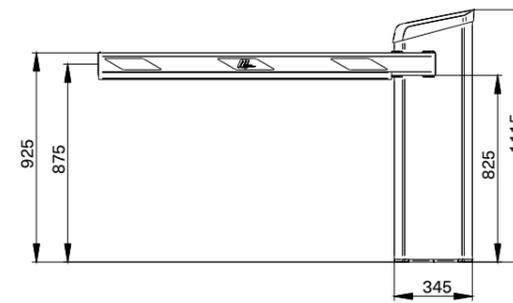
Standard colours



Special colours are also available on request and can be selected from the table of four-digit RAL colours.

Dimensional drawings

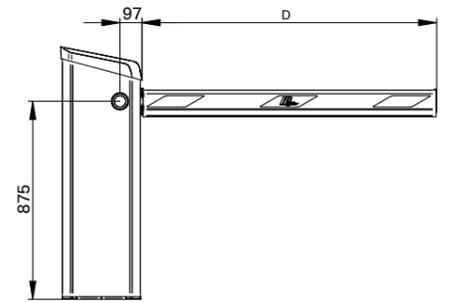
Access Pro-H with MicroBoom – right view



Front view



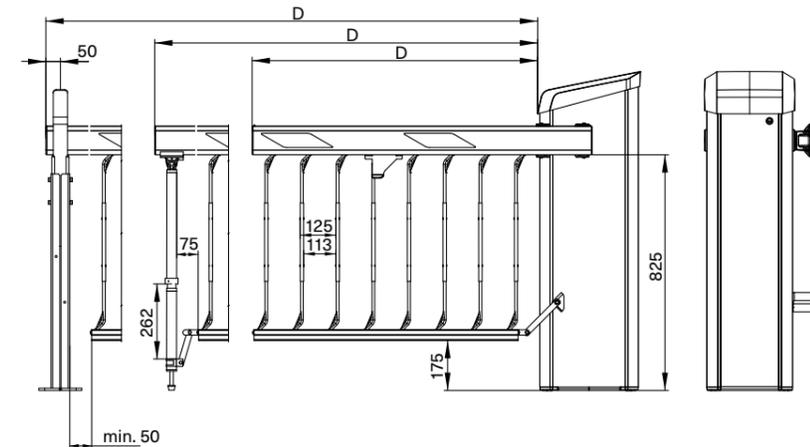
Left view



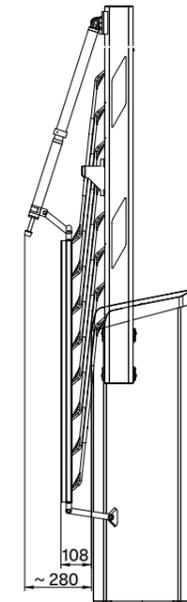
Top view



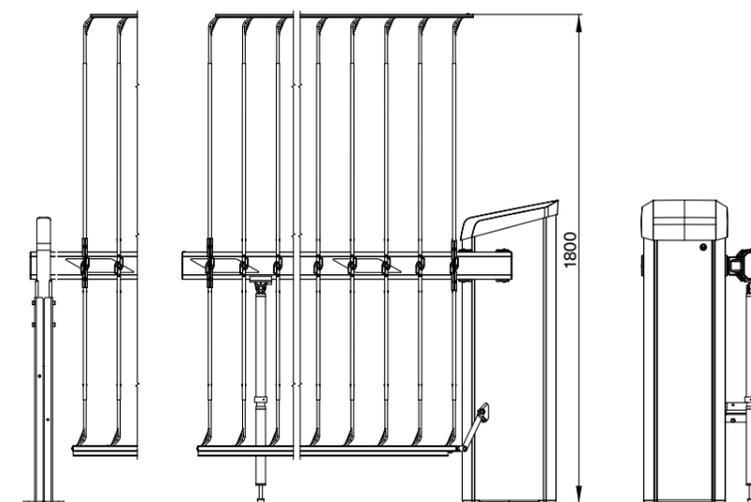
Access Pro-H with standard boom skirt



Standard skirt bei geöffneter Schranke



Access Pro-H with boom skirt with 1.80 m climb-over prevention

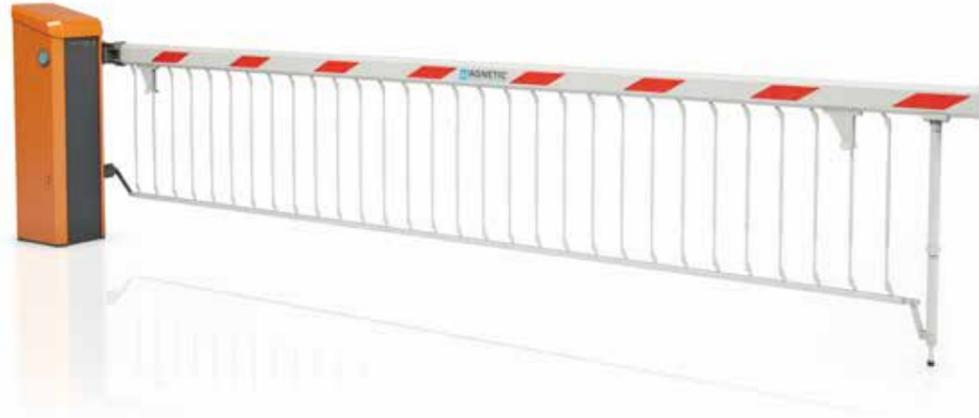


All barriers from Magnetic are available as left and right versions. If one looks at the barrier housing down the boom from its tip, the boom is on the left in the L variant and on the right with the R variant.

Complete dimensional drawings are available on request.

Access Pro-H

Access barriers



Products in basic configuration

Product description	Article number	Article number
Barrier Access Pro-H	right version	left version
Access Pro-H, orange, blocking width max. 6.0 m ¹	ACCESS PRO-H-RA00000	ACCESS PRO-H-LA00000
Access Pro-H, Grey aluminium, blocking width max. 6.0 m ¹	ACCESS PRO-H-RA00010	ACCESS PRO-H-LA00010
Access Pro-H, white aluminium, blocking width max. 6.0 m ¹	ACCESS PRO-H-RA00020	ACCESS PRO-H-LA00020

The barriers Access Pro-H will in the basic configuration be delivered with controller MGC Pro with 2-channel loop detector, flange (FLVB01) as well as u-shaped rails for quick and easy installation.

Special colours for the barrier housing

Article number	Product description
SL01	Barrier housing and top cover in the same colour, doors in standard colour (black grey, similar RAL 7021) ²
SL02	Barrier housing, top cover and doors in same colour ²
SL03	Barrier housing and top cover in the same colour, doors in other selectable colour ²
SL04	Barrier housing, top cover and doors in different colours ²

Barrier booms

Article number	Product description
MicroBoom-N035	MicroBoom, blocking width 3.5 m ³
MicroBoom-N045	MicroBoom, blocking width 4.5 m ³
MicroBoom-N050	MicroBoom, blocking width 5.0 m ³
MicroBoom-N060	MicroBoom, blocking width 6.0 m ³
EP01	Extra charge for shortening of barrier boom

Spare parts

A comprehensive digital list of spare parts for Access Pro-H is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ Support post and pendulum support required for blocking width > 3.5 m.

² The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.

³ Barrier boom for direct mounting to flange, incl. edge protection.

Options and accessories for barriers

Sensors

Induction loops	•
Photoelectric safety switches	•
Laser scanner	•

Operation

Radio remote control	•
Control console	•
Key switches	•

Connectivity

Plug-in module	•
GSM module	•

Signalling

Flashlights and flashing lights for barriers	•
Signal generator, mast and accessories	•

Other accessories

Battery backup	•
Installation accessories	•
Built-in components	•
Service module and software	•

Order information for options and accessories from p. 34.

Options and accessories for barrier booms

Boom illumination and individualisation

Boom illumination with individual red LED lights	•
Boom illumination with red/green LED strips	•
Expansion sets for VarioBoom	•

Skirt

Standard skirt	•
Climb-over prevention skirt	•

Supports for long barrier booms

Support post	•
Pendulum support	•

Other accessories

Electromechanical boom locks	•
Boom contact	•
Flange with break-away option	•

Order information for options and accessories for barrier booms from p. 42.

Access XL2 and Access XXL

Access barriers



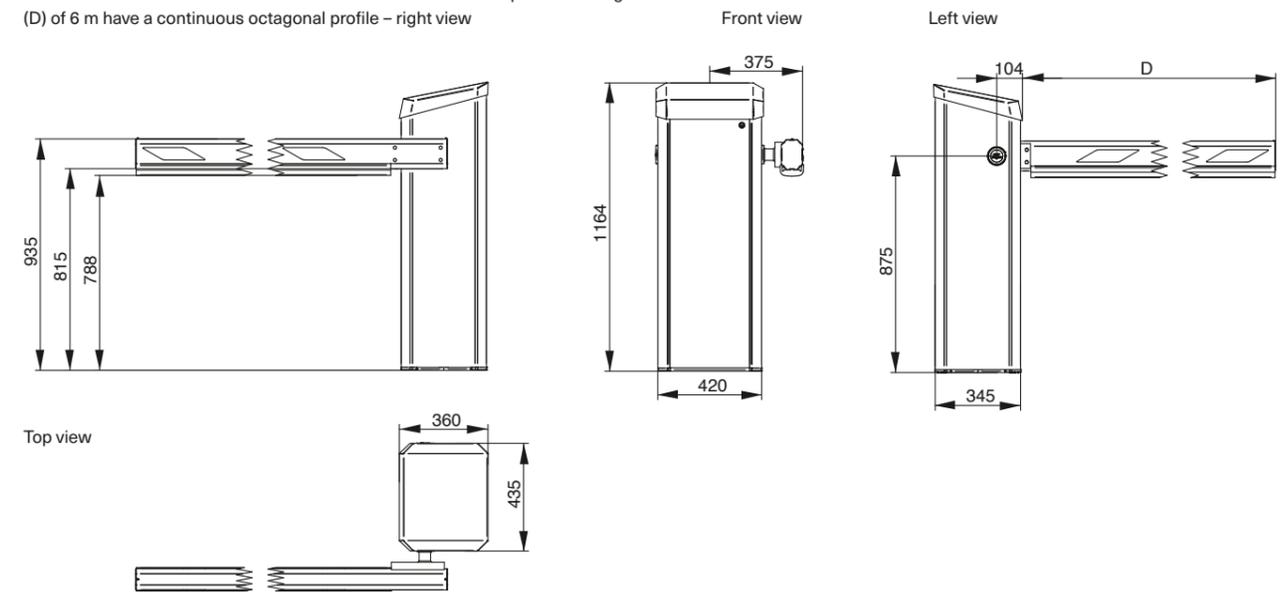
- > Large barrier width of up to 10.0 m
- > High security with optional barrier boom skirt
- > Very low operating costs thanks to efficient and long-lived MHTM™ drive
- > Ease-of-use and optimum accessibility thanks to well thought-out design
- > Legal security with Declarations of Conformity and Performance
- > Designed for 2 million opening and closing cycles

Technical data	Access XL 2	Access XXL
Blocking width	Max. 8.5 m	Max. 10.0 m
Opening/closing time	6.0 s	8.0 s
Power consumption	Max. 17 W	Max. 30 W
Drive technology	MHTM™	MHTM™
Voltage	85 – 264 VAC, 50/60 Hz	85 – 264 VAC, 50/60 Hz
Duty cycle	100 %	100 %
Housing dimensions (W x D x H)	435 x 360 x 1164 mm	435 x 360 x 1164 mm
Enclosure rating	IP 54	IP 54
Temperature range	-30 to +55 °C	-30 to +55 °C
Weight	105 kg	112 kg

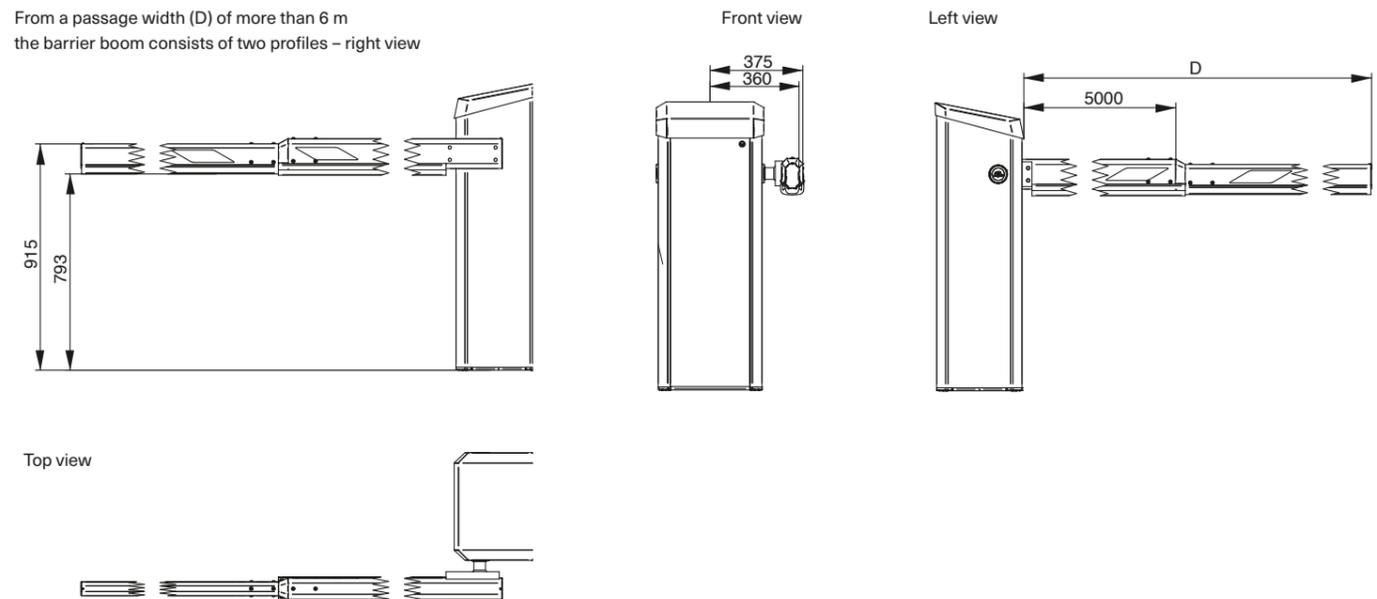
Features	Access XL 2	Access XXL
Standard colours	RAL 2000	RAL 2000
Barrier boom	MicroBoom XL	MicroBoom XL
Control system	MGC Pro	MGC Pro
Integrated 2-channel detector for induction loops	Standard	Standard
Modular expansion of control system	Standard	Standard
Variable I/O assignment	Standard	Standard
No. of digital inputs	8	8
No. of relays/digital outputs	6/4	6/4
Input with test for safety light barrier/Laser scanner	Standard	Standard
Selectable closing speed	3 levels	3 levels
Selectable opening speed	3 levels	3 levels

Dimensional drawings

Access XL2 and Access XXL with MicroBoom: barrier booms up to a blocking width (D) of 6 m have a continuous octagonal profile – right view



From a passage width (D) of more than 6 m the barrier boom consists of two profiles – right view



Standard colours



Orange (RAL 2000)

Special colours are also available on request and can be selected from the table of four-digit RAL colours.

All barriers from Magnetic are available as left and right versions. If one looks at the barrier housing down the boom from its tip, the boom is on the left in the L variant and on the right with the R variant.

Access XL2 and Access XXL

Access barriers



Products in basic configuration

Product description	Article number	Article number
Barrier Access XL2	right version	left version
Access XL2, orange, blocking width max. 8.5 m	ACCESS XL2-RA00000	ACCESS XL2-LA00000
Barrier Access XXL	right version	left version
Access XXL, orange, blocking width max. 10 m	ACCESS XXL-RA00000	ACCESS XXL-LA00000

The barriers Access XL2 and Access XXL will in the basic configuration be delivered with controller MGC Pro with 2-channel loop detector, flange (welded to flange tube) as well as u-shaped rails for quick and easy installation. All models have to be used with either a pendulum support or a support post.

Special colours for the barrier housing

Article number	Product description
SL01	Barrier housing and top cover in the same colour, doors in standard colour (black grey, similar RAL 7021) ¹
SL02	Barrier housing, top cover and doors in same colour ¹
SL03	Barrier housing and top cover in the same colour, doors in other selectable colour ¹
SL04	Barrier housing, top cover and doors in different colours ¹

Barrier booms for Access XL2

Article number	Product description
Barrier booms for Access XL2	
MicroBoom-XL060	MicroBoom XL, blocking width 6.0 m ²
MicroBoom-XL070	MicroBoom XL, blocking width 7.0 m ²
MicroBoom-XL085	MicroBoom XL, blocking width 8.5 m ²
EP01	Extra charge for shortening of barrier boom

Barrier booms for Access XXL

MicroBoom-XL060	MicroBoom XL, blocking width 6.0 m ²
MicroBoom-XL070	MicroBoom XL, blocking width 7.0 m ²
MicroBoom-XL085	MicroBoom XL, blocking width 8.5 m ²
MicroBoom-XL090	MicroBoom XL, blocking width 9.0 m ²
MicroBoom-XL100	MicroBoom XL, blocking width 10.0 m ²
EP01	Extra charge for shortening of barrier boom

Spare parts

A comprehensive digital list of spare parts for Access XL2 and Access XXL is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.

² Barrier boom for direct mounting to flange, incl. edge protection.

Options and accessories for barriers

Sensors	
Induction loops	•
Photoelectric safety switches	•
Laser scanner	•
Operation	
Radio remote control	•
Control console	•
Key switches	•
Connectivity	
Plug-in module	•
GSM module	•
Signalling	
Flashlights and flashing lights for barriers	•
Signal generator, mast and accessories	•
Other accessories	
Battery backup	
Installation accessories	•
Built-in components	•
Service module and software	•

Order information for options and accessories from p. 34.

Options and accessories for barrier booms

Boom illumination and individualisation	
Boom illumination with individual red LED lights	•
Boom illumination with red/green LED strips	•
Expansion sets for VarioBoom	
Skirt	
Standard skirt	•
Climb-over prevention skirt	•
Supports for long barrier booms	
Support post	•
Pendulum support	•
Other accessories	
Electromechanical boom locks	•
Boom contact	
Flange with break-away option	

Order information for options and accessories for barrier booms from p. 42.

Parking Pro

Parking Barrier

- > Reliable detection of tailgating vehicles
- > Low power consumption for economical operation
- > Optimum accessibility for particularly easy maintenance
- > German Design Award 2014 and Red Dot Design Award 2012
- > Designed for 10 million opening and closing cycles



Technical data	Parking Pro
Blocking width	Max. 3.5 m
Opening/closing time	1.3 s
Power consumption	Max. 95 W
Drive technology	MHTM™
Voltage	85–264 VAC, 50/60 Hz
Duty cycle	100%
Housing dimensions (W x D x H)	315 x 360 x 915 mm
Enclosure rating	IP 54
Temperature range	–30 to +55° C
Weight	40 kg

Features	Parking Pro
Standard colours	RAL 2000, 9006, 9007
VarioBoom barrier boom	Standard
Control system	MGC Pro
Integrated 2-channel detector for induction loops	Standard
Modular expansion of control system	Standard
Variable I/O assignment	Standard
No. of digital inputs	8
No. of relays/digital outputs	6/4
Input with test for safety light barrier/Laser scanner	1
Selectable closing speed	3 levels
Selectable opening speed	3 levels

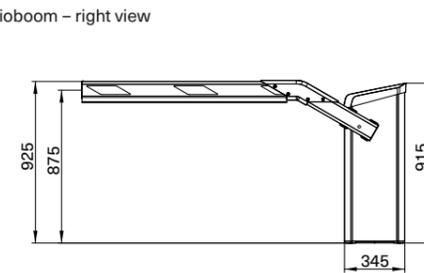
Standard colours

		
Orange (RAL 2000)	White aluminium (similar to RAL 9006)	Grey aluminium (similar to RAL 9007)

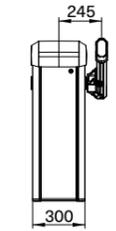
Special colours are also available on request and can be selected from the table of four-digit RAL colours.

Dimensional drawings

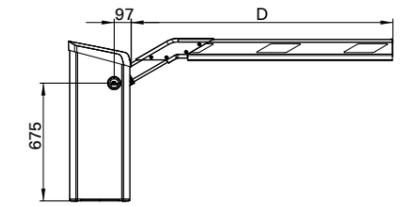
Parking Pro with Varioboom – right view



Front view



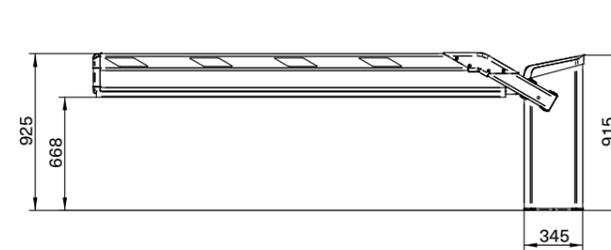
Left view



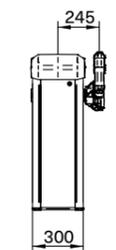
Top view



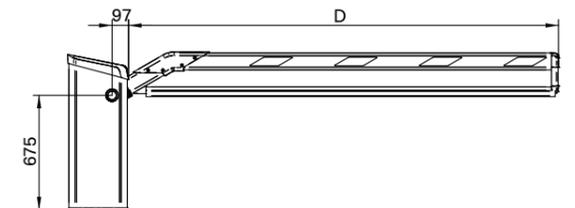
Parking Pro with VarioBoom and optional extension set – right view



Front view



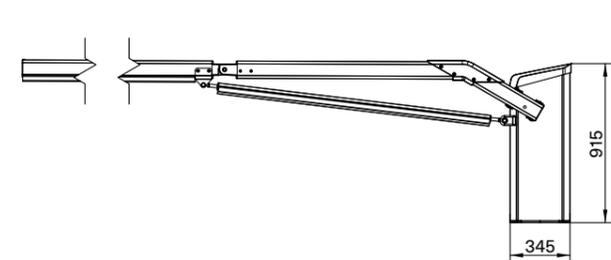
Left view



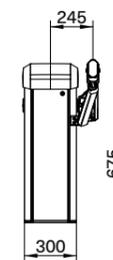
Top view



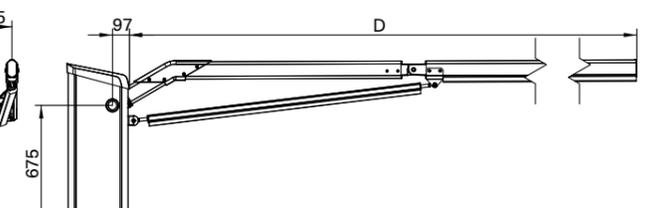
Parking Pro with optional articulated boom – right view



Front view



Left view



Top view



All barriers from Magnetic are available as left and right versions. If one looks at the barrier housing down the boom from its tip, the boom is on the left in the L variant and on the right with the R variant.

Parking Pro

Parking Barrier



Products in basic configuration

Product description	Article number	Article number
Barrier Parking Pro	right version	left version
Parking Pro, orange, blocking width max. 3.5 m	PARKING PRO-RA00000	PARKING PRO-LA00000
Parking Pro, grey aluminium, blocking width max. 3.5 m	PARKING PRO-RA00010	PARKING PRO-LA00010
Parking Pro, white aluminium, blocking width max. 3.5 m	PARKING PRO-RA00020	PARKING PRO-LA00020

The barriers Parking Pro will in the basic configuration be delivered with controller MGC Pro with 2-channel loop detector, flange (FLVB01), rear boom part (SBH01) as well as u-shaped rails for quick and easy installation.

Special colours for the barrier housing

Article number	Product description
SL01	Barrier housing and top cover in the same colour, doors in standard colour (black grey, similar RAL 7021) ¹
SL02	Barrier housing, top cover and doors in same colour ¹
SL03	Barrier housing and top cover in the same colour, doors in other selectable colour ¹
SL04	Barrier housing, top cover and doors in different colours ¹

Barrier booms	
Article number	Product description
SBV-N025	VarioBoom front, blocking width 2.5 m ²
SBV-N030	VarioBoom front, blocking width 3.0 m ²
SBV-N035	VarioBoom front, blocking width 3.5 m ²
EP01	Extra charge for shortening of barrier boom
KBS11	Articulated boom length D = max. 3.5 m, individual height H = max. 2.5 m ³
KBB01	Kit set for articulated boom, D = max. 3.5 m, H = max. 2.5 m ³

Spare parts

A comprehensive digital list of spare parts for the car park barrier Parking Pro is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.

² Barrier boom for direct mounting to flange, incl. edge protection.

³ Barrier boom has to be ordered additionally. Please indicate passage width D and height H on your purchase order.

Options and accessories for barriers	
Sensors	
Induction loops	•
Photoelectric safety switches	•
Laser scanner	•
Operation	
Radio remote control	•
Control console	•
Key switches	•
Connectivity	
Plug-in module	•
GSM module	•
Signalling	
Flashlights and flashing lights for barriers	•
Signal generator, mast and accessories	•
Other accessories	
Battery backup	•
Installation accessories	•
Built-in components	•
Service module and software	•

Order information for options and accessories from p. 34.

Options and accessories for barrier booms	
Boom illumination and individualisation	
Boom illumination with individual red LED lights	•
Boom illumination with red/green LED strips	•
Expansion sets for VarioBoom	•
Skirt	
Standard skirt	
Climb-over prevention skirt	
Supports for long barrier booms	
Support post	
Pendulum support	
Other accessories	
Electromechanical boom locks	•
Boom contact	•
Flange with break-away option	•

Order information for options and accessories for barrier booms from p. 42.

Toll barrier

- > Opening and closing time down to 0.3 s
- > Very low operating costs thanks to efficient and long-lived MHTM™ drive
- > Ease-of-use and optimum accessibility thanks to well thought-out design
- > Prize-winning design: German Design Award 2014 and Red Dot Design Award 2012
- > Designed for 10 million opening and closing cycles



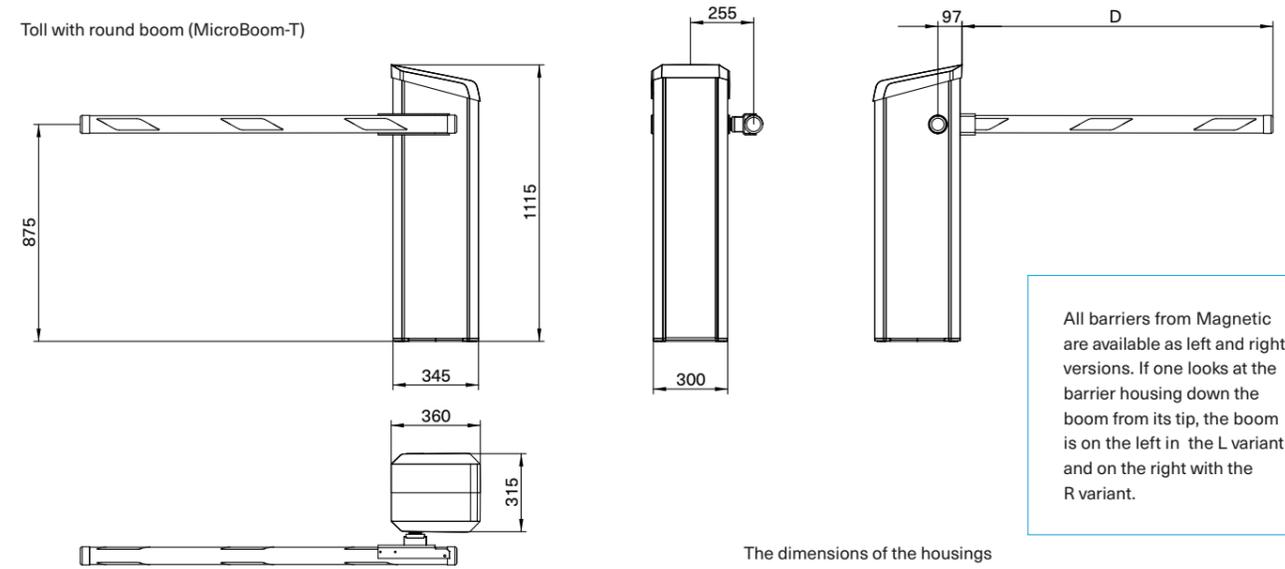
Technical data	Toll	Toll Pro	Toll Pro 2	Toll HighSpeed	Toll HighSpeed 2
Blocking width	Max. 3.0 m	Max. 3.0 m	Max. 3.0 m	Max. 3.0 m	Max. 3.2m (with 2 barriers)
Opening/closing time	1.3 s	0.9 s	0.7 s	0.6 s	0.3 s
Power consumption	Max. 55 W	Max. 95 W	Max. 225 W	Max. 320 W	Max. 450 W
Drive technology	MHTM™	MHTM™	MHTM™	MHTM™	MHTM™
Voltage	85–264 VAC, 50/60 Hz				
Duty cycle	100 %	100 %	100 %	100 %	100 %
Housing dimensions (W x D x H)	315 x 360 x 1115 mm				
Enclosure rating	IP 54				
Temperature range	-30 to +55 °C				
Weight	approx. 42 kg	approx. 42 kg	approx. 43 kg	approx. 44 kg	approx. 44 kg

Features	Toll	Toll Pro	Toll Pro 2	Toll HighSpeed	Toll HighSpeed 2
Standard colour	RAL 2000				
Barrier boom	3 models available	3 models available	3 models available	3 models available	2 models available
Control system	3 models available				
Number of digital inputs	8	8	8	8	8
Input with test for safety light barrier/ Laser scanner	1	1	1	1	1
Number of relay/ digital outputs	6/4	6/4	6/4	6/4	6/4
Closing speed	adjustable	adjustable	adjustable	adjustable	adjustable

Control systems	MGC without loop detector	MGC with loop detector	MGC Pro
2 detector channels		•	•
Adjustable inputs/outputs			•
3 opening speeds			•

Dimensional drawings

Toll with round boom (MicroBoom-T)



The dimensions of the housings are identical for all models.

Barrier boom selection

Round boom (MicroBoom-T)



- > For blocking width up to 3 m
- > The swing-away flange protects the boom and barrier in the event of a collision

Item number	Toll	Toll Pro	Toll Pro 2	Toll HighSpeed	Toll HighSpeed 2
MicroBoom-T030	•	•	•	•	
MicroBoom-T015					•

Rectangular boom (MicroBoom-S)



- > For blocking width up to 3 m
- > The swing-away flange protects the boom and barrier in the event of a collision
- > Edge protector elements provide additional protection for the vehicle and barrier boom

Item number	Toll	Toll Pro	Toll Pro 2	Toll HighSpeed	Toll HighSpeed 2
MicroBoom-S025	•	•		•	
MicroBoom-S030	•				

Soft boom (MicroBoom-AT)



- > For blocking width up to 3 m
- > The automatic swing-away flange disengages in the event of a collision so that neither the vehicle nor the barrier are damaged and then independently re-engages

Item number	Toll	Toll Pro	Toll Pro 2	Toll HighSpeed	Toll HighSpeed 2
MicroBoom-AT015					•
MicroBoom-AT030	•	•	•	•	•

Toll

Toll barrier



Products in basic configuration		
Product description	Article number	Article number
Toll	right version	left version
Toll, orange, 1.3 seconds, blocking width max. 3.0 m, with control unit MGC without loop detector module	TOLL-RA00000	TOLL-LA00000
Toll, orange, 1.3 seconds, blocking width max. 3.0 m, with control unit MGC and loop detector module, 2-channel	TOLL-RA00001	TOLL-LA00001
Toll, orange, 1.3 seconds, blocking width max. 3.0 m, with control unit MGC Pro and loop detector module, 2-channel	TOLL-RA00002	TOLL-LA00002
Toll Pro	right version	left version
Toll Pro, orange, 0.9 seconds, blocking width max. 3.0 m, with control unit MGC without loop detector module	TOLL PRO-RA00000	TOLL PRO-LA00000
Toll Pro, orange, 0.9 seconds, blocking width max. 3.0 m, with control unit MGC and loop detector module, 2-channel	TOLL PRO-RA00001	TOLL PRO-LA00001
Toll Pro, orange, 0.9 seconds, blocking width max. 3.0 m, with control unit MGC Pro and loop detector module, 2-channel	TOLL PRO-RA00002	TOLL PRO-LA00002
Toll Pro 2	right version	left version
Toll Pro 2, orange, 0.7 seconds, blocking width max. 3.0 m, with control unit MGC without loop detector module	TOLL PRO2-RA00000	TOLL PRO2-LA00000
Toll Pro 2, orange, 0.7 seconds, blocking width max. 3.0 m, with control unit MGC and loop detector module, 2-channel	TOLL PRO2-RA00001	TOLL PRO2-LA00001
Toll Pro 2, orange, 0.7 seconds, blocking width max. 3.0 m, with control unit MGC Pro and loop detector module, 2-channel	TOLL PRO2-RA00002	TOLL PRO2-LA00002
Toll HighSpeed	right version	left version
Toll HighSpeed, orange, 0.6 seconds, blocking width max. 3.0 m, with control unit MGC without loop detector module	TOLL HiSpeed-RA00000	TOLL HiSpeed-LA00000
Toll HighSpeed, orange, 0.6 seconds, blocking width max. 3.0 m, with control unit MGC and loop detector module, 2-channel	TOLL HiSpeed-RA00001	TOLL HiSpeed-LA00001
Toll HighSpeed, orange, 0.6 seconds, blocking width max. 3.0 m, with control unit MGC Pro and loop detector module, 2-channel	TOLL HiSpeed-RA00002	TOLL HiSpeed-LA00002

Products in basic configuration		
Product description	Article number	Article number
Toll HighSpeed 2	right version	left version
Toll HighSpeed 2, orange, 0.3 seconds, blocking width max. 1.5 m, with control unit MGC without loop detector module	TOLL HiSpeed2-RA00000	TOLL HiSpeed2-LA00000
Toll HighSpeed 2, orange, 0.3 seconds, blocking width max. 1.5 m, with control unit MGC and loop detector module, 2-channel	TOLL HiSpeed2-RA00001	TOLL HiSpeed2-LA00001
Toll HighSpeed 2, orange, 0.3 seconds, blocking width max. 1.5 m, with control unit MGC Pro and loop detector module, 2-channel	TOLL HiSpeed2-RA00002	TOLL HiSpeed2-LA00002

The toll barriers Toll will in the basic configuration be delivered with u-shaped rails for quick and easy installation.

Special colours for the barrier housing	
Article number	Product description
SL01	Barrier housing and top cover in the same colour, doors in standard colour (black grey, similar RAL 7021) ¹
SL02	Barrier housing, top cover and doors in same colour ¹
SL03	Barrier housing and top cover in the same colour, doors in other selectable colour ¹
SL04	Barrier housing, top cover and doors in different colours ¹

Barrier booms	
Article number	Product description
Barrier booms MicroBoom-T	
MicroBoom-T030	Round boom for swing-away flange, diameter 75 mm, blocking width 3.0 m
FLSAMBT	Swing-away flange for round boom MicroBoom-T
EP01	Extra charge for shortening of barrier boom
Barrier booms MicroBoom-S	
MicroBoom-S025	Octagonal boom for swing-away flange, blocking width 2.5 m, incl. edge protection
MicroBoom-S030	Octagonal boom for swing-away flange, blocking width 3.0 m, incl. edge protection (not possible for TOLL Pro/HiSpeed)
FLSAMBS	Swing-away flange for Octagonal boom MicroBoom-S
EP01	Extra charge for shortening of barrier boom
Barrier booms MicroBoom-AT	
MicroBoom-AT015	Round boom with aluminium core and foam casing, diameter ca. 80 mm, blocking width 1.5 m ²
MicroBoom-AT030	Round boom with aluminium core and foam casing, diameter approx. 80 mm, blocking width 3.0 m ²
FLSAMBXT	Swing-away flange for round boom MicroBoom-AT
FLSAUTOMBXT	Auto swing-away flange for round boom MicroBoom-AT

Some boom types are not compatible to all barrier models. Please refer to the table on p. 31 for possible combinations.

¹ The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.

² No individual shortenings possible.

Options and accessories for barriers	
Sensors	
Induction loops	•
Photoelectric safety switches	•
Laser scanner	•
Operation	
Radio remote control	•
Control console	•
Key switches	•
Connectivity	
Plug-in module	•
GSM module	
Signalling	
Flashlights and flashing lights for barriers	•
Signal generator, mast and accessories	•
Other accessories	
Battery backup	•
Installation accessories	•
Built-in components	•
Service module and software	•

Order information for options and accessories from p. 34.

Spare parts

A comprehensive digital list of spare parts for Toll is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

Options and accessories

For Access, Car park and Toll barriers



Suitable for every type of application

Numerous options and accessories can be used to expand the functional scope of the vehicle barriers from Magnetic and precisely adapt them to the requirements at the installation location. When placing an order, it is necessary to indicate whether the options and accessories should be delivered loosely or already fitted to the barriers. If you want them fitted to the barriers, it may be necessary to add an additional item number to the order for the installation charge.

Sensors

Inductive loops, light barriers and laser scanners ensure that vehicles and pedestrians are reliably detected.

Inductive loops and 2-channel loop detector module



- > Inductive loops can be installed as monitoring, opening and presence loops
- > Available in lengths from 6 to 21 m
- > For all barriers and for the additional 2-channel detector module
- > 2-channel inductive loop detector for monitoring the area around the barrier
- > Expands the MGC and MGC Pro control units from 2 to a max. of 4 channels

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
IS06	Induction loop 6 m	•	•	•	•	•	•	•	•	•
IS09	Induction loop 9 m	•	•	•	•	•	•	•	•	•
IS12	Induction loop 12 m	•	•	•	•	•	•	•	•	•
IS15	Induction loop 15 m	•	•	•	•	•	•	•	•	•
IS21	Induction loop 21 m	•	•	•	•	•	•	•	•	•
DM02	Loop detector module, 2-channel	•	•	•	•	•	•	•	•	•

Light barriers



- > For monitoring the area directly under the barrier boom
- > Takes over the task of an inductive loop in monitoring mode

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
LS11	Safety light barrier, transmitter and receiver with additional parts, through-beams light barrier	•	•	•	•	•	•	•	•	•
LS12	Safety light barrier, transmitter and receiver with additional parts, two beam version (one upon the other) ¹	•	•	•	•	•	•	•	•	•
EP02	Assembly charge for light barrier (for each mounted transmitter or receiver)	•	•	•	•	•	•	•	•	•
APLS01	Counter post for photo-electric beam, RAL 7043	•	•	•	•	•	•	•	•	•
BSAP01	Anchor set for support post or counter post	•	•	•	•	•	•	•	•	•

¹ With ACCESS XL2 and ACCESS XXL barriers, key switches and fire brigade switches can only be installed at the left side of the barrier housing. This means that if a left-hand version of this barrier type is used with a light barrier LS02, only one key switch or firebrigade switch can be installed.

Laser scanners



- > Horizontal laser scanners for use on barriers with high impact forces in combination with pedestrian traffic
- > Reliable use of inductive loops for opening and monitoring
- > Vertical laser scanners for reliable detection of commercial vehicles with high overhangs or attached trailers
- > Large monitoring field for wide access roads to factory premises and freight forwarding companies

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
MLSHOR01	Horizontal laser scanner without housing	•	•	•	•	•	•	•	•	•
MLGHOR01	Housing for horizontal laser scanner, for installation on barrier housing	•	•	•	•	•	•	•	•	•
MLPEINH_0000	Scanner housing for horizontal laser scanner in separate post	•	•	•	•	•	•	•	•	•
MLPREF01	Reference face plate as post for horizontal laser scanner	•	•	•	•	•	•	•	•	•
MLSVR01	Vertical laser scanner without housing	•	•	•	•	•	•	•	•	•
MLGVER_0000	Installation housing vertical laser scanner	•	•	•	•	•	•	•	•	•
MLPF01	Post for vertical laser scanner (MLGVER_0000 required)	•	•	•	•	•	•	•	•	•
MLVE24	Power supply unit with small parts for laser scanner	•	•	•	•	•	•	•	•	•
MLFB01	Remote control for parameterization of laser scanner	•	•	•	•	•	•	•	•	•

Operation

Radio transmitters, key-operated switches and control panels simplify the manual operation of the barriers.

Handheld radio transmitters



> For wireless control of barriers using a handheld transmitter with up to 4 channels > Free allocation of the buttons to the desired functions

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
HS1K01	Hand transmitter 1-channel	•	•	•	•	•	•	•	•	•
HS2K01	Hand transmitter 2-channel	•	•	•	•	•	•	•	•	•
HS4K01	Hand transmitter 4-channel	•	•	•	•	•	•	•	•	•
MHS2K01	Miniature hand transmitter 2-channels	•	•	•	•	•	•	•	•	•

Key-operated switches, fire brigade switches and limit switches



> Key-operated switches and profile half cylinders for the one-time or permanent opening and closing of the barriers > Limit switches for detecting the position of the barrier boom, installation in the barrier housing
> Fire brigade switches to allow the emergency services to open the barriers

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
SS01	Key switch locked open/momentary close (prepared for profile half-cylinder) ²	•	•	•	•	•			•	•
SS02	Key switch momentary open/close (prepared for profile half-cylinder) ²	•	•	•	•	•			•	•
SS51	Key switch locked open/momentary close (prepared for profile half-cylinder) ²						•	•		
SS52	Key switch momentary open/close (prepared for profile half-cylinder) ²						•	•		
PHZE01	Individual profile half-cylinder with 3 keys) ²	•	•	•	•	•	•	•	•	•
PHZG01	Keyed alike profile half-cylinder with 3 keys) ²	•	•	•	•	•	•	•	•	•
FWS01	GERMAN fire brigade switch (Standard DIN 3223)	•	•	•	•	•			•	
FWS51	GERMAN fire brigade switch (standard DIN 3223) ²						•	•		

Key-operated switches, fire brigade switches and limit switches (continued)

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
ESM01	Mechanical limit switch, 1 piece with mounting (feedback of boom position)	•	•	•	•	•			•	•
ESM50	Mechanical limit switch (feedback of boom position)						•	•		
EP03	Assembly charge for switches	•	•	•	•	•	•	•	•	•

² With Access XL2 and Access XXL barriers, key switches and fire brigade switches can only be installed at the left side of the barrier housing.

Control panels



> For easy control of up to 4 Magnetic barriers in gatekeeper operation > One push button for opening and closing each barrier

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
PG01	Desk panel for one barrier	•	•	•	•	•	•	•	•	•
PG02	Desk panel for two barriers	•	•	•	•	•	•	•	•	•
PG03	Desk panel for three barriers	•	•	•	•	•	•	•	•	•
PG04	Desk panel for four barriers	•	•	•	•	•	•	•	•	•

Connectivity

The extension modules enable the control of barriers via various interfaces and protocols.

Expansion and counting modules



> Extension modules for easy control of barriers via Ethernet, RS-485, radio (433 MHz) or mobile communication (GSM) > Counting modules for networking barriers and recording the incoming and outgoing vehicles

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
FM02	Radio module FM 433 MHz, 2-channel	•	•	•	•	•	•	•	•	
EM01	Ethernet module			•	•	•	•	•	•	•
RSM01	RS485 module			•	•	•	•	•	•	•
ECN01	CAN module (counting module)			•	•	•	•	•	•	•
GSM-SET01	GSM module, incl. external antenna and connection cable, incl. GSMKT for easy configuration ³	•	•	•	•	•			•	
GSM-SET50	GSM module, incl. external antenna and connection cable, incl. GSMKT for easy configuration ³						•	•		

³ For the installation in Access XL2 and Access XXL a mounting set MPOS is required. This mounting set has to be ordered additionally.

Signalling

Lights, signalling devices and matching accessories guide pedestrians and car drivers in the area around the barriers.

Blinking and flashing lights



- > For better perception of the barriers during the opening and closing process
- > Available as Xenon flashing lights or LED flashing lights
- > Installation on the hood of the barrier housing

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
BL01	Xenon flash light orange 24 V, 125 mA	•	•	•	•	•	•	•	•	•
BLED01	LED flashing light orange, 24 V, 25 mA	•	•	•	•	•	•	•	•	•
EP04	Assembly charge lights	•	•	•	•	•	•	•	•	•

Signalling devices



- > Single and double signalling devices for controlling traffic and better perception of the barriers
- > Available in the colours red, red and green and with the wording "Occupied"
- > Masts for fixing the signalling device to the barrier housing or for free-standing installation
- > Unit for controlling oncoming traffic on single-lane, non-public roads

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
SIGNAL1-L210-R-0	Traffic signal head red, 210 mm diameter, with LED panel 230 V, no symbol ⁴	•	•	•	•	•	•	•	•	•
SIGNAL1-L210-R-1	GERMAN Traffic signal head red "Besetzt", 210 mm diameter, with LED panel 230 V ⁴	•	•	•	•	•	•	•	•	•
SIGNAL2-L210-RG-0	Traffic signal head red/green 210 mm diameter, with LED panel 230 V, no symbol ⁴	•	•	•	•	•	•	•	•	•
SIGNAL2-L210-RG-1	GERMAN Traffic signal head red/green "Besetzt/Frei", 210 mm diameter, with LED panel 230 V ⁴	•	•	•	•	•	•	•	•	•
SIGNAL2-L210-RY-0-2	Traffic signal head red/yellow 210 mm diameter, with LED panel 230 V, yellow panel flashing (incl. flasher unit), no symbol ⁴	•	•	•	•	•	•	•	•	•
SIGNAL1-G210-R-0	Traffic signal head red 210 mm diameter, no symbol ^{4,5}	•	•	•	•	•	•	•	•	•
SIGNAL1-G210-R-1	GERMAN Traffic signal head red "Besetzt", 210 mm diameter ^{4,5}	•	•	•	•	•	•	•	•	•

Signalling devices (continued)										
Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
SIGNAL2-G210-RG-0	Traffic signal head red/green 210 mm diameter, no symbol ^{4,5}	•	•	•	•	•	•	•	•	•
SIGNAL2-G210-RG-1	GERMAN Traffic signal head red/green "Besetzt/Frei", 210 mm diameter ^{4,5}	•	•	•	•	•	•	•	•	•

⁴ For direct control of the traffic signal by the MGC controller, you need to order a relay RELO1 per traffic signal head.
⁵ The traffic signal heads do not contain any lights. The lights have to be ordered separately (LM01 or LM02).

Signalling device fixing, control and other accessories

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
MSSIGNAL01	Mast Ø 76mm, H=2.2 m for installation of signal heads at the barrier housing, incl. mounting set	•	•	•	•	•	•	•	•	•
EP12	Preparation of barrier housing for MSSIGNAL01	•	•	•	•	•	•	•	•	•
SIGNALM01	Mounting mast for signal heads H=2.5 m with post cap, without post door, Ø 108 mm, base plate 350 x 350 x 12 mm, hole spacing 280 mm, Ø 24 mm	•	•	•	•	•	•	•	•	•
SIGNALMK01	Anchor cage for mast, stud spacing 280 x 280 mm, M16-4 (for SIGNALM01)	•	•	•	•	•	•	•	•	•
SIGNALM02	Mounting mast for signal heads H=3.5 m with post cap, without post door, Ø 108 mm, base plate 350 x 350 x 12 mm, hole spacing 280 mm, Ø 24 mm	•	•	•	•	•	•	•	•	•
SIGNALMK02	Anchor cage for mast, stud spacing 280 x 280 mm, M20-4 (for SIGNALM02)	•	•	•	•	•	•	•	•	•
SIGNALBS01	Anchor set for mast (4 x anchor rod M12 x 160 mm stainless steel, glue cartridges and small parts)	•	•	•	•	•	•	•	•	•
GVAE01	Stand-alone control unit to direct the traffic in a single lane installation with oncoming traffic by two traffic signals red/green in non-public road traffic, includes assembly and wiring on an additional mounting plate, relais unit RELO1 is not needed	•	•	•	•	•	•	•	•	•
LM01	Filament lamp for signal head 40W	•	•	•	•	•	•	•	•	•
LM02	Filament lamp for signal head 75W	•	•	•	•	•	•	•	•	•
RELO1	Relay for installation on DIN rail, required for controlling single or double signal heads by controller unit, incl. cable ⁶	•	•	•	•	•	•	•	•	•

⁶ For the installation a mounting set MPOS (in Access XL2 and Access XXL) respectively a mounting plate MP01 (all other barriers) is required. This articles have to be ordered additionally.

Accessories for the power supply, installation, housing and operation

Battery back-up, installation accessories, built-in components and service modules ensure reliable operation.

Battery backup



- > Battery back-up control unit for uninterrupted operation of the barriers even in the event of a power cut
- > The battery packs can maintain the power supply for several hours

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
BAT010	Battery backup for barriers in low housing (Access, Access Pro, Access-L, Access Pro-L, Parking Pro), rechargeable batteries are not included	•	•	•	•				•	
BAT011	Battery backup for barriers with tall housing (Access Pro-H), rechargeable batteries are not included					•				• ⁷
BAT-AK010	Battery set (comprises of two lead rechargeable batteries)	•	•	•	•	•			•	•

⁷ Battery backup only available for Toll and Toll Pro models.

Installation accessories



- > Mounting kits for optimal installation of the barriers at the installation location
- > Installation plates for the easy integration of accessories into the barrier housing

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
BSS01	Anchor set for barriers and terminal	•	•	•	•	•			•	•
BSS50	Anchor set for Access XL2/XXL barrier (glue cartridges and anchor bolts M12 with inside thread)						•	•		
BSS51	Anchor set for Access XL2/XXL barrier (glue cartridges and anchor bolts M12 with outside thread)						•	•		
MP01	Mounting plate complete	•	•	•	•	•			•	•
MPOS	Option set for mounting plate for Access XL2/XXL						•	•		
EP05	Assembly charge for accessories per mounting plate	•	•	•	•	•	•	•	•	•
SGMD-01-000	Pedestal for increasing the height of a MHTM™ MicroDrive barrier up to a blocking width of 3.5 m (centre of barrier boom in a height of 1750 mm instead of 875 mm with standard housing), orange (RAL 2000), front and back side black grey (similar to RAL 7021)	•	•	•	•	•			•	

Special colours are also available on request and can be selected from the four digit RAL colour range.

Built-in components



- > Socket for supplying power to additional functional units
- > Heating fans for reliable operation in cold and damp environments
- > Time switches for time-controlled operation of the barriers

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
AD01	GERMAN power socket ⁸	•	•	•	•	•			•	
AD60	GERMAN power socket for Access XL2/XXL ⁹						•	•		
HZ02	Heater fan 230WAC/550W ^{8,9}	•	•	•	•	•			•	•
ZS1K01	Weekly time switch, 1-channel (24 V) ^{8,9}	•	•	•	•	•	•	•	•	
ZS2K01	Weekly time switch, 2-channel (24 V) ^{8,9}	•	•	•	•	•	•	•	•	
WS01	GERMAN warning label „Achtung Schranke schließt automatisch. Einzeln einfahren. Abstand halten“	•	•	•	•	•	•	•	•	
ESU01	Panel mount buzzer, pulse/steady signal (packed separately)	•	•	•	•	•	•	•	•	

⁸ An MPO1 installation plate is required for the installation. This must be ordered separately.

⁹ An MPOS installation kit is required for installation on Access XL2 and Access XXL barriers. This must be ordered separately

Service module and software



- > Service module for connecting a PC to the CAN interface on the MGC and MGC Pro control units (via USB)
- > MicroDrive Manager service software for easy setting, editing and managing of the barrier settings

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
SM01	Service module for updating the controller software and copying parameters	•	•	•	•	•	•	•	•	•
MDM01	MicroDrive Manager – Parameter editor for creating, editing and managing parameter files incl. dongle for USB port	•	•	•	•	•	•	•	•	•

Options and accessories

For barrier booms on Access and Parking barriers

Lighting elements and extension sets for better visibility, skirts and climb-over protection for effective restriction of pedestrians, supports for especially large barrier widths and much more – the options and accessories from Magnetic not only allow you to optimally adapt the barriers but also the barrier booms to the challenges faced at the installation location.



Supports for long barrier booms

Support posts and pendulum supports enable barrier widths of up to 10 m.

Support posts and pendulum supports



> Increase the possible width of the barrier, also in combination with skirts and climb-over protection

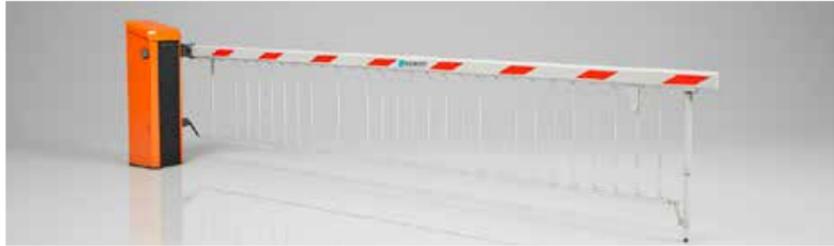
Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
AP01	Support post RAL 7043 for all barriers and for Access XL2 and XXL with a blocking width > 6.0 m, RAL 7043	•	•	•	•	•	•	•	•
AP51	Support post for Access XL2 and XXL with a blocking width up to 6.0 m, RAL 7043						•	•	
APV01	Support post for electro-mechanical boom locking and for Access XL2 and XXL with a blocking width > 6.0 m, RAL 7043	•	•	•	•	•	•	•	•
APV51	Support post for Access XL2 and XXL with a blocking width up to 6.0 m, RAL 7043						•	•	
SL09	Special colour for support post or counter post ¹	•	•	•	•	•	•	•	•
BSAP01	Anchor set for support post or counter post	•	•	•	•	•	•	•	•
PS01	Pendulum support with fastening set	•	•	•	•	•	•	•	•

¹ Special colours can be selected from the table of four-digit RAL colours. The desired RAL colour tone must be stated when placing the order.

Skirts

Skirts and skirts with climb-over protection effectively prevent people crawling under and climbing over the barrier.

Skirts



> Prevents crawling under the barrier

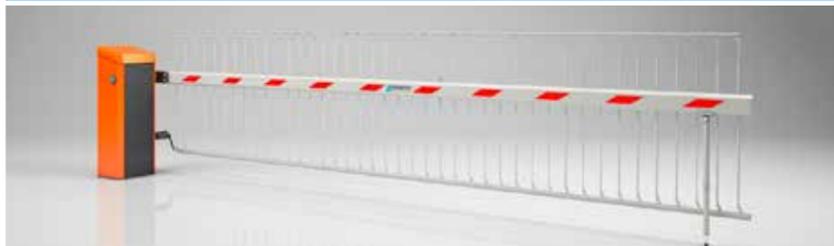
Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
GS-030	Boom skirt for blocking width up to 3,0 m					•	•	•	
GS-040	Boom skirt for blocking width up to 4,0 m					•	•	•	
GS-050	Boom skirt for blocking width up to 5,0 m					•	•	•	
GS-060	Boom skirt for blocking width up to 6,0 m					¹	•	•	
GS-070	Boom skirt for blocking width up to 7,0 m						•	•	
GS-080	Boom skirt for blocking width up to 8,0 m						•	•	
GS-090	Boom skirt for blocking width up to 9,0 m						²	•	
GS-100	Boom skirt for blocking width up to 10,0 m							•	

The skirt parts are supplied loose. The barrier housing is prepared for the mounting of the skirt. It is not possible to mount strips (red/green) at the boom together with skirt with climb-over protection. A support post or a pendulum support is required for use.

¹ The maximum length of the boom skirt is 5 m for the Access Pro-H with pendulum support and 5.5 m with support post.

² The maximum length of the boom skirt is 8.5 m for the Access XL2.

Skirt with climb-over prevention



> Total height of the skirt 1300 mm
> Prevents crawling under and climbing over the barrier

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
GUE1300-030	Skirt with climb-over protection, 1.3 m height for blocking width up to 3.0 m					•	•	•	
GUE1300-040	Skirt with climb-over protection, 1.3 m height for blocking width up to 4.0 m					•	•	•	
GUE1300-050	Skirt with climb-over protection, 1.3 m height for blocking width up to 5.0 m					³	•	•	
GUE1300-060	Skirt with climb-over protection, 1.3 m height for blocking width up to 6.0 m						•	•	

The skirt parts are supplied loose. The barrier housing is prepared for the installation of the skirt. It is not possible to use LED single lights (red) with the climb-over protection skirt. Support posts or hinged supports are required for their use.

³ The maximum length of a barrier boom with a skirt and climb-over protection on the Access Pro-H is 4.3 m with hinged support and 4.7 m with support posts.

Skirt with high climb-over prevention



- > Total height of the skirt 1800 mm
- > Prevents crawling under and climbing over the barrier

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
GUE1800-030	Skirt with climb-over protection, 1.8 m height for blocking width up to 3,0 m					•	•	•	
GUE1800-040	Skirt with climb-over protection, 1.8 m height for blocking width up to 4,0 m					•	•	•	
GUE1800-050	Skirt with climb-over protection, 1.8 m height for blocking width up to 5,0 m					• ⁴	•	•	
GUE1800-060	Skirt with climb-over protection, 1.8 m height for blocking width up to 6,0 m						•	•	

The skirt parts are supplied loose. The barrier housing is prepared for the installation of the skirt. It is not possible to use LED single lights (red) with the climb-over protection skirt. Support posts or pendulum supports are required for their use.

⁴ The maximum length of a barrier boom with a skirt and climb-over protection on the Access Pro-H is 4.0 m with hinged support and 4.5 m with support posts.

Boom lighting and customisation

Single lights, light strips and extension sets increase the visual perception of the barrier boom

Extension set for VarioBoom



- > Increased visibility of the barrier boom and space for information and advertising

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
EVB35	Extension set for VarioBoom, blocking width 3.5 m, spacing 100 mm	•	•	•	•				•
EVB50	Extension set for VarioBoom, blocking width 5.0 m, spacing 100 mm		•		•				•
EVBS01	Inlay for extension set, 750 x 95 mm	•	•	•	•				•
EVB35L	Extension set for VarioBoom, blocking width 3.5 m, spacing 175 mm	•	•	•	•				•
EVB50L	Extension set for VarioBoom, blocking width 5.0 m, spacing 175 mm		•		•				•
EVBS01L	Inlay for extension set, 750 x 170 mm	•	•	•	•				•
PS02	Pendulum support for extension set VarioBoom (> 3.5 m required)	•	•	•	•				•

LED lighting with light strips



- > Increased visibility of the barrier boom using a red light in a closed state, a flashing red light during movement and a green light in an open state

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
LEDS11B	LED boom lighting bicoloured red/green for blocking width up to 3,5 m ¹	•	•	•	•	•			•
LEDS12B	LED boom lighting bicoloured red/green for blocking width up to 6,0 m ¹		•		•	•			
LEDS13B	LED boom lighting bicoloured red/green for articulated booms	•	•	•	•				•
LEDS61B	LED boom lighting bicoloured red/green for blocking widths up to 6,0 m ¹						•	•	
LEDS60B	LED boom lighting bicoloured red/green for blocking widths > 6,0 m ¹						•	•	
EP13	Boom preparation for using pendulum support with LED stripes red/green	•	•	•	•	•	•	•	•
LEDSVS	Supply unit barrier for LED boom lighting red/green (including mounting plate, cabling, etc., installed)	•	•	•	•	•			•
LEDSXLVS	Supply unit barrier for LED boom lighting red/green (including option set for option set MPOS, cabling, etc., installed)						•	•	

The LED lighting option using light strips (red/green) includes installation onto the barrier boom. Depending on the type of barrier, an LEDSVS or LEDSDLVS supply unit is required. This must be ordered separately.

¹ LED lighting using light strips is not possible in combination with standard skirts

LED boom lighting with single lights



- > Increased visibility of the barrier boom using a continuous or flashing red light

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
LED02	Red LED boom lighting, set of 2 lights (1 lamp on either side) ²	•	•	•	•	•			•
LED04	Red LED boom lighting, set of 4 lights (2 lights on either side) ²	•	•	•	•	•			•
LED06	Red LED boom lighting, set of 6 lights (3 lights on either side) ²	•	•	•	•	•			•
LED10	Red LED boom lighting, set of 10 lights (5 lights on either side) ²		•		•	•			
LEDX02	Red LED boom lighting, set of 2 lights ²						•	•	
LEDX04	Red LED boom lighting, set of 4 lights ²						•	•	
LEDX06	Red LED boom lighting, set of 6 lights ²						•	•	
LEDX10	Red LED boom lighting, set of 10 lights ²						•	•	
LEDVE24	Supply unit 24 V 1.4 A with terminal blocks & cables, required for red boom lighting set if no boom locking set is installed	•	•	•	•	•	•	•	•

LED boom lighting with single lights (continued)

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
ESBF01	Extension kit blink mode (controlled by control unit)	•	•	•	•	•	•	•	•
MPOS	Option set for mounting plate Access XL2/XXL (required for installation)						•	•	
EP05	Assembly charge for accessories per mounting plate						•	•	

The LED lighting option using single lights includes installation onto the barrier boom. The voltage supply is provided via the LEDVE24 supply unit if no boom locking has been installed. To install the LEDVE24 supply unit and the ESBF01 flashing unit, the optional MPOS set is also required for the Access XL2 and Access XXL barriers. These parts must each be ordered separately.

² LED lighting using single lights is not possible in combination with skirts with climb-over protection.

Boom locking

Electromagnetic locking, boom breakaway flange and boom contacts guarantee safety and availability.

Boom locking



- Effectively prevent attempts to force open the barriers
- Automatic locking at the end of the closing process

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
BV01B	Electro-mechanical boom locking unit (mounted)	•	•	•	•	•			•
BV01S	Supply unit for barrier for boom locking unit (mounted)	•	•	•	•	•			•
BV51XLB	Electro mechanical boom locking unit (mounted) for blocking width up to 6.0 m						•	•	
BV50XLB	Electro mechanical boom locking unit (mounted) for blocking width > 6.0 m						•	•	
BV5XLS	Supply unit, opto coupler, etc. for barrier XL2/XXL for boom locking unit (mounted)						•	•	

Boom breakaway flange and boom contact



- The breakaway flange means that the boom disengages in the event of a collision and can then be installed again
- The boom contact triggers an alarm if the barrier boom is released from its holder or dismantled

Article number	Product description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro
FLVB02	Flange with boom break-away option (surcharge)								•
BAK01	Boom contact	•	•	•	•	•			•

Safe in every respect

The barriers comply with all legal standards



Barrier boom accessories

Providing legal certainty when operating your barrier systems

The following regulations and directives are valid in Europe for the use of power-operated or motorised barriers: the Building Products Regulation No. 305/2011, if pedestrian traffic cannot be excluded, the Machinery Directive 2006/42/EC, the Low voltage Directive 2014/35/EU and the EMC Directive 2014/30/EU.

These regulations and directives specify the minimum level of protection required for making building products and machines available on the market. This also includes barrier systems. In order to comply with these regulations, a declaration of conformity in accordance with the Machinery Directive and EMC Directive must be produced for the barriers before they are made available on the market. If pedestrian traffic cannot be excluded using structural measures, a declaration of performance also has to be produced.

You will automatically receive these documents from us when purchasing a Magnetic barrier. This ensures that you are also on the safe side from a legal perspective. We take on the responsibility for you! A visible sign of conformity with these regulations is the CE Mark that is included on the type plate for the barrier systems.

Save time and money!

As CE conformity for the entire system (for inductive loops, light barriers and scanners from the Magnetic range) has already been verified, you are not required to provide any further documentation after installation to comply with the regulations. Instead, you will receive the following from us:

Declaration of conformity in accordance with the Machinery Directive for the entire system

- ✓ Safe control systems (EN13849)
- ✓ Compliance with all relevant EN standards
- ✓ Protection of people and property
- ✓ EMC tested (electromagnetic compatibility)

Declaration of performance in accordance with the Construction Products Regulation, tested by TÜV Nord

- ✓ Wind load
- ✓ Safe opening
- ✓ Compliance with impact forces

UL certificate for USA and Canada

- ✓ According to UL325

Traffic H1

Horizontal barrier

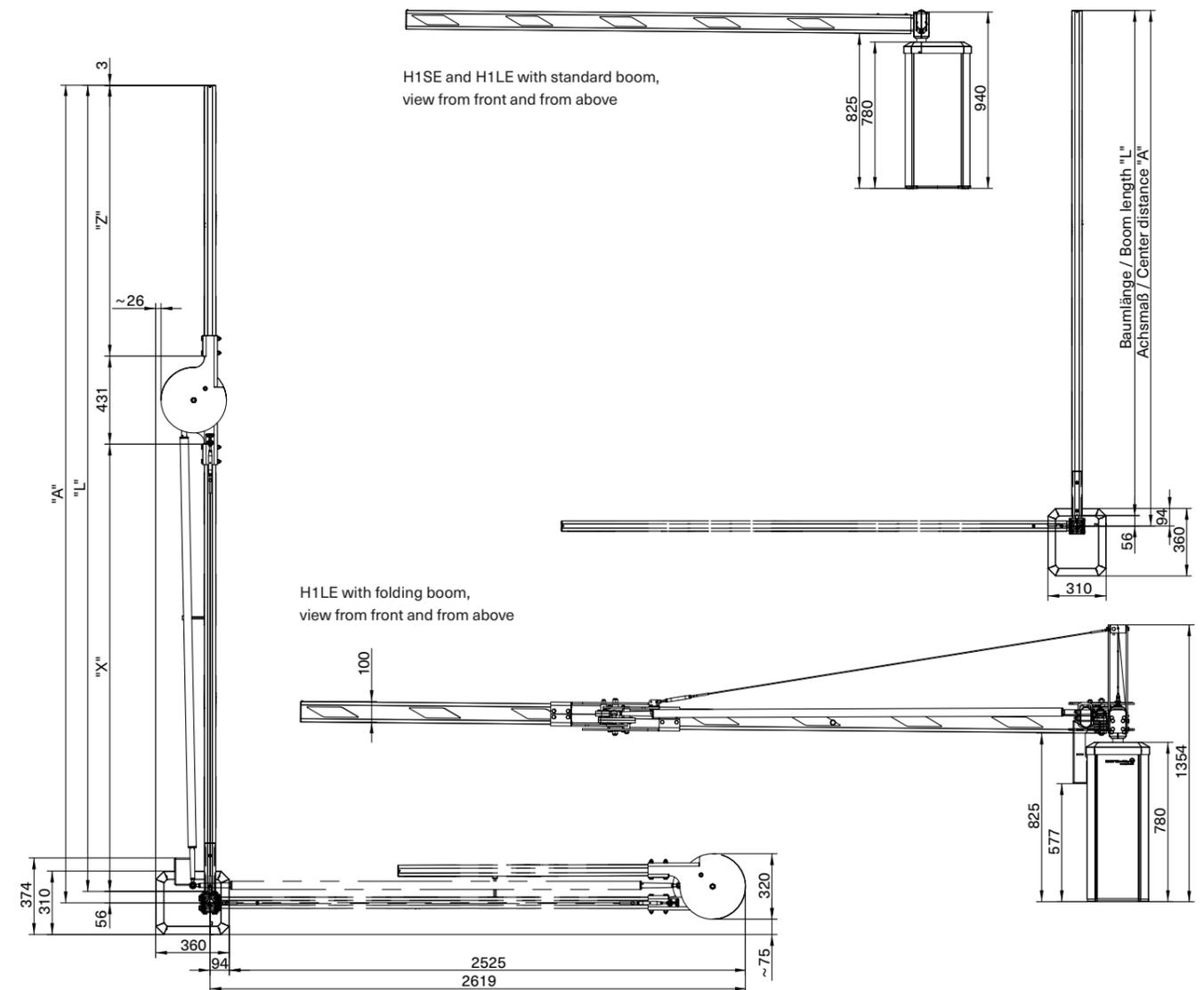
- > High functionality for numerous special applications
- > Patented folding boom for safety at indoor crossings with differing blocking widths
- > Low power consumption for economical operation
- > Optimum accessibility for particularly simple maintenance
- > Shape based on the prize-winning design of the Access barriers



Technical data	H1LE with standard boom	H1LE with folding boom	H1SE
Barrier width	Max. 6.0 m	Max. 5.5 m	Max. 3.5 m
Opening/closing time	4.0 s	4.0 s	2.0 s
Power consumption	Max. 45 W	Max. 45 W	Max. 90 W
Drive technology	MHTM™	MHTM™	MHTM™
Voltage	85–264 VAC, 50/60 Hz	85–264 VAC, 50/60 Hz	85–264 VAC, 50/60 Hz
Duty cycle	100 %	100 %	100 %
Housing dimensions (W x D x H) without support	315 x 360 x 940 mm	–	315 x 360 x 940 mm
Housing dimensions (W x D x H) with support	315 x 360 x 1355 mm	315 x 360 x 1355 mm	–
Enclosure rating	IP 54	IP 54	IP 54
Temperature range	–30 to +55 °C	–30 to +55 °C	–30 to +55 °C
Weight (without boom)	55 kg	55 kg	55 kg

Features	H1LE with standard boom	H1LE with folding boom	H1SE
Standard colours	RAL 2000	RAL 2000	RAL 2000
Barrier boom	MicroBoom-H1	MicroBoom-F1	MicroBoom-H1
Control system	MGC Pro	MGC Pro	MGC Pro
Integrated 2-channel detector for induction loops	Standard	Standard	Standard
Modular expansion of control system	Freely expandable	Freely expandable	Freely expandable
Variable I/O assignment	Standard	Standard	Standard
Number of digital inputs	8	8	8
Number of relay/digital outputs	6/4	6/4	6/4
Input for safety light barrier with test	Standard	Standard	Standard
Selectable closing speed	Standard	Standard	Standard
Selectable opening speed	Standard	Standard	Standard

Dimensional drawings



Horizontal barriers

Barrier boom selection

Rectangular boom (MicroBoom-H1)



- > For blocking width up to 6 m
- > Can be equipped with warning lights

Folding boom (MicroBoom-F)



- > For blocking width up to 5.5 m
- > For safeguarding crossings with different blocking widths
- > Not suitable for outdoor applications

Traffic H1

Horizontal barrier



Products in basic configuration

Article number	Product description
TRAFFIC H1SE-SA00002	Horizontal barrier Traffic H1, opening/closing time 2.0 s, boom length max. 3.5 m
TRAFFIC H1LE-SA00002	Horizontal barrier Traffic H1, opening/closing time 4.0 s, boom length max. 6.0 m

In the basic configuration, the horizontal Traffic barrier is supplied with the MGC Pro control system with 2-channel detector module, boom flange (FLB03), and mounting profiles for rapid and straightforward installation.

Special colours¹ for the barrier housing

Article number	Product description
SL01	Barrier housing and top cover in the same colour, doors in standard colour (black grey, similar RAL 7021) ¹
SL02	Barrier housing, top cover and doors in same colour ¹
SL03	Barrier housing and top cover in the same colour, doors in other selectable colour ¹
SL04	Barrier housing, top cover and doors in different colours ¹

Barrier booms

Article number	Product description
Barrier booms for Traffic H1LE and Traffic H1SE	
MICROBOOM-H1-E025	Standard boom straight 2.5 m ²
MICROBOOM-H1-E030	Standard boom straight 3.0 m ²
MICROBOOM-H1-E035	Standard boom straight 3.5 m ²
MICROBOOM-H1-E045	Standard boom straight 4.5 m ^{2,3}
MICROBOOM-H1-E050	Standard boom straight 5.0 m ^{2,3}
MICROBOOM-H1-E060	Standard boom straight 6.0 m ^{2,3}
MBABS02	Anchoring cable with brackets for standard booms
FLB04	Surcharge for complete flange ⁴
EP01	Extra charge for shortening of barrier boom

Barrier booms only for Traffic H1LE

MICROBOOM-F1-E030	Folding boom 3.0 m ^{2,5}
MICROBOOM-F1-E035	Folding boom 3.5 m ^{2,5}
MICROBOOM-F1-E040	Folding boom 4.0 m ^{2,5}
MICROBOOM-F1-E045	Folding boom 4.5 m ^{2,5}
MICROBOOM-F2-E050	Folding boom 5.0 m ^{2,5}
MICROBOOM-F2-E055	Folding boom 5.5 m ^{2,5}
MBABS03	Anchoring cable with brackets for folding booms up to 4.5 m
MBABS04	Anchoring cable with brackets for folding booms longer than 4.5 m
EP01	Extra charge for shortening of barrier boom

Options and accessories for barriers

Article number	Product description
Induction loops and loop detector module, 2-channel	
IS06	Induction loop 6 m
IS09	Induction loop 9 m
IS12	Induction loop 12 m
IS15	Induction loop 15 m
IS21	Induction loop 21 m
DM02	Loop detector module, 2-channel

Switches and connector sets

SS01	Key switch locked open/momentary close (prepared for profile half-cylinder) ⁶
SS02	Key switch momentary open/close (prepared for profile half-cylinder) ⁶
PHZE01	Individual profile half-cylinder with 3 keys
PHZG01	Keyed alike profile half-cylinder with 3 keys
FWS01	GERMAN fire brigade switch (Standard DIN 3223)
ESM10	Mechanical limit switch, 1 piece with fixing elements (feedback boom position) ⁶
ESM11	Mechanical limit switch, 2 pieces with fixing elements (feedback boom position) ⁶
EP03	Assembly charge for switches
STS01L	Connector set Harting 3-pin + 24-pin, incl. installation on left housing side ⁷
STS01R	Connector set Harting 3-pin + 24-pin, incl. installation on right housing side ⁷
EP26	Charge for milling the cut out of STS01L/R ⁸

Installation accessories

BSS01	Anchor set for barriers and terminal
MP01	Mounting plate complete
EP05	Assembly charge for accessories per mounting plate

Components

AD01	GERMAN power socket ⁹
ZS1K01	Weekly time switch, 1-channel (24 V) ⁹
ZS2K01	Weekly time switch, 2-channel (24 V) ⁹

Service module and software

SM01	Service module for updating the controller software and copying parameters
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For Traffic H1 hand transmitter, desk panels, extension and counting modules as well as signal heads are available if required.

Further information as well as the respective article number can be found on page 36 in the column Access Pro-H.

Options and accessories for barrier booms

Article number	Product description
Skirt	
GF01-030-001	Skirt for standard boom with boom length up to 3.3 m ¹⁰
GF01-040-001	Skirt for standard boom with boom length up to 4.3 m ¹⁰
GF01-050-001	Skirt for standard boom with boom length up to 5.3 m ¹⁰
GF02-030-001	Skirt for folding boom with boom length up to 3.1 m ¹⁰
GF02-040-001	Skirt for folding boom with boom length up to 4.1 m ¹⁰
GF02-050-001	Skirt for folding boom with boom length up to 4.5 m ¹⁰

Spare parts

A comprehensive digital list of spare parts for Traffic H1 is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.

² Barrier boom for direct mounting to flange, incl. edge protection.

³ When using a barrier boom with a blocking width > 3.5 m, an anchoring cable is required, which must be ordered separately.

⁴ Inclination angle approx. +/-1° adjustable.

⁵ The rear boom element must be aligned with an anchoring cable. This anchoring cable must be ordered separately.

⁶ Up to 2 switches can be mounted on the left side of the housing. Up to 3 switches can be mounted on the right side of the housing. Fire brigade and key switches can be installed. When using a folding boom, the switches can only be installed on the left side of the housing.

⁷ The connector sets are attached to the side of the barrier housing and are lockable. The voltage is supplied via a 3-pole connector unit. In addition, 24 poles are available for control inputs or outputs are available. The mating connectors are not included.

⁸ When ordering the preparation without installation of the connector set, the preferred side of the self-assembly must be specified.

⁹ For the installation a mounting set MPOS is required. This mounting set has to be ordered additionally.

¹⁰ The skirt parts will be delivered unassembled. The boom skirt for the straight boom is designed for a maximum boom length of 4.5 m and has a ground distance of 400 mm. Other ground distances are available on request.

Terminals

For controlling cars and trucks



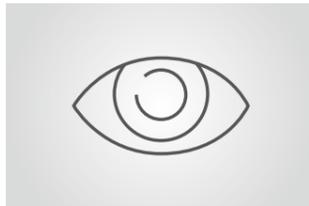
For equipment according to the customer's requirements

In terms of their function and design, the terminals are the optimal supplement for all barriers from Magnetic. They act as a universal platform for customer-specific equipment – whether for intercom systems and video monitoring or complex access and exit control systems. The individual components are made out of aluminium and stainless steel and are thus designed for a long service life. The front consists of a front plate that can be slid out on telescopic rails and a slot-in door. Service technicians thus have easy access to all installed components.



For all vehicle types

The terminals from Magnetic guarantee optimal accessibility from all types of vehicles – whether from compact cars and delivery vehicles or from the driver's cab on an articulated truck. Therefore, they make a significant contribution to allowing the vehicles to pass quickly and easily through the access control system.



Diverse range of control systems

Whether intercom systems, video cameras, card readers, ticket systems or biometric identification systems – the terminals from Magnetic have space for all of the required access control systems.



Easily accessible components

Two easy steps: The front panel on the terminal can be slid out on telescopic rails, while the door is easy to remove. This makes it easier to use and speeds up commissioning and servicing work.



Optimal corrosion protection

The stainless steel base and housing made out of powder-coated aluminium provide ideal protection against corrosion even in the long term.



MS Terminal and MH Terminal

Free-standing housings with a height of 120 cm and a slimline silhouette for holding customer-specific equipment, either with a small (MS) or large (MH) installation space

Application

For controlling cars

[From page 54](#)



ML Terminal

Free-standing housing with a height of 220 cm and a slimline silhouette for holding customer-specific equipment on two separate installation spaces

Application

For controlling cars and delivery vehicles

[From page 54](#)



MXL Terminal

Free-standing housings with a height of 150 cm and an especially wide and deep installation space

Application

For controlling cars and delivery vehicles when multiple control and communication systems are required at one single height

[From page 58](#)



MXXL Terminal

Free-standing housings with a height of 280 cm and an especially wide and deep installation space

Application

For controlling cars, delivery vehicles and articulated trucks when multiple control and communication systems are required next to each other at different heights

[From page 58](#)

Terminal-MS, -MH, -ML

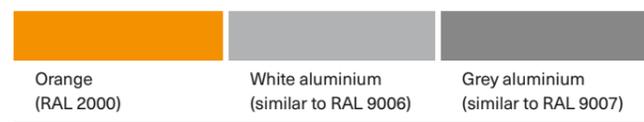
Free-standing housing

- > Universal platform for a wide variety of equipment
- > Shape and colours based on prize-winning design of Access barriers
- > Slide-out front cover for simple commissioning and maintenance
- > Maximum protection against corrosion



Technical data	Terminal-MS	Terminal-MH	Terminal-ML
Application	Cars	Cars	Cars and trucks
Housing dimensions (W x H x D)	296 x 1202 x 266 mm	296 x 1202 x 266 mm	296 x 2202 x 266 mm
Installation space (W x H)	209 x 337 mm	209 x 487 mm	209 x 337 mm (2 x)
Weight	15 kg	15 kg	27 kg
Front cover design	Slide out on telescopic rails	Slide out on telescopic rails	Slide out on telescopic rails
Housing design	Powder-coated aluminium	Powder-coated aluminium	Powder-coated aluminium
Base design	Stainless steel	Stainless steel	Stainless steel
Enclosure rating	IP 54	IP 54	IP 54

Standard colours, housing



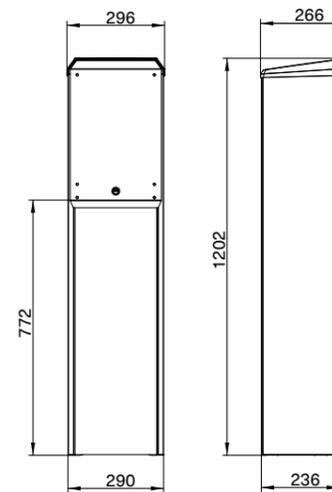
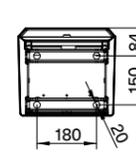
Special colours are also available on request and can be selected from the table of four-digit RAL colours.

Standard colours, front and back

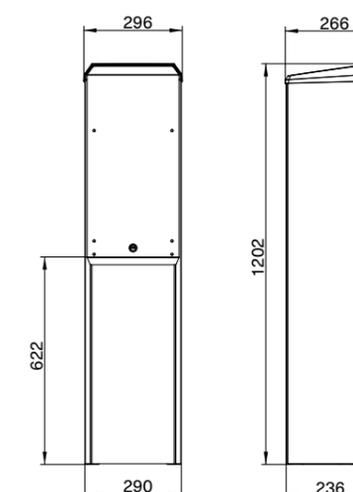


Dimensional drawings

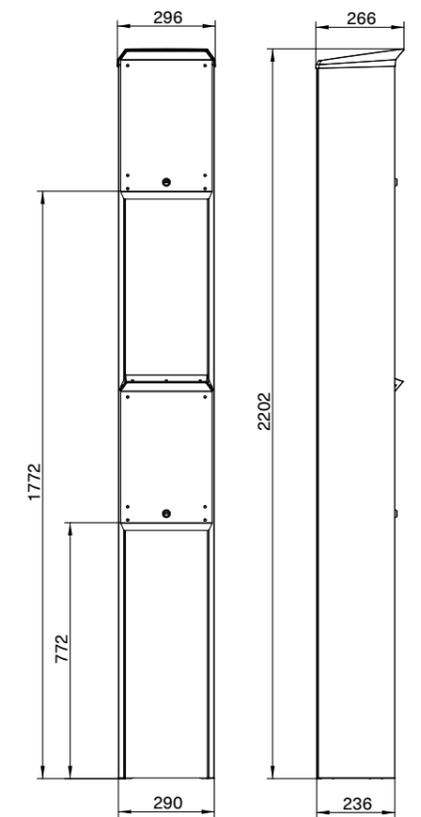
Terminal-MS, -MH and -ML: View from below



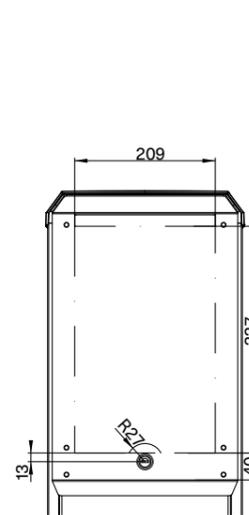
Terminal-MS: Front view and side view



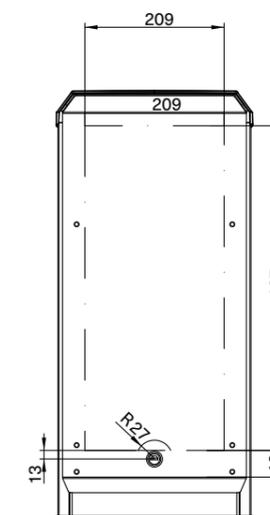
Terminal-MH: Front view and side view



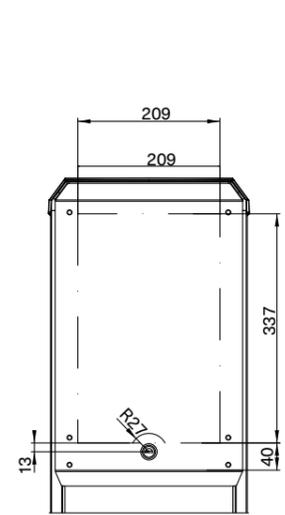
Terminal-ML: Front view and side view



Terminal-MS: Detailed view of front cover



Terminal-MH: Detailed view of front cover



Terminal-ML: Detailed view of front cover

Terminal-MS, -MH, -ML

Free-standing housing



Products in basic configuration	
Article number	Article description
TERMINAL-MS-A000	Terminal-MS, orange
TERMINAL-MS-A100	Terminal-MS, grey aluminium
TERMINAL-MS-A200	Terminal-MS, white aluminium
TERMINAL-MH-A000	Terminal-MH, orange
TERMINAL-MH-A100	Terminal-MH, grey aluminium
TERMINAL-MH-A200	Terminal-MH, white aluminium
TERMINAL-ML-A000	Terminal-ML, orange
TERMINAL-ML-A100	Terminal-ML, grey aluminium
TERMINAL-ML-A200	Terminal-ML, white aluminium
BSS01	Anchor set for barrier/terminal

Special colours for Terminal-MS, -MH, -ML	
Article number	Article description
SL21	Side panels and top cover in the same colour, front and back panels in black grey (similar to RAL 7021) ¹
SL22	Side panels, top cover, front and back panels in the same colour (extensible front panels black grey, similar RAL 7021) ¹
SL23	Side panels and top cover in the same colour, front and back panels in another selectable colour (extensible front panels black grey, similar RAL 7021) ¹
SL24	Side panels, top cover and doors in different colours (extensible front panels black grey, similar RAL 7021) ¹

Options and accessories for Terminal-MS, -MH, -ML

Article number	Article description
Mechanical token validator and accessories	
CMP01-25	Token validator for tokens with a diameter of 25 mm, with groove (CMZ01-25)
CMP01-27	Token validator for tokens with a diameter of 27 mm, with groove (CMZ01-27)
CMP01-28	Token validator for tokens with a diameter of 28 mm, with hole (CMZ01-28)
CMP01-BS	Installation kit set for token validators for Terminal-MS, -MH, -ML ²

Tokens

CMZ012550	Token, diameter 25 mm, with groove (50 pieces)
CMZ012750	Token, diameter 27 mm, with groove (50 pieces)
CMZ012850	Token, diameter 28 mm, with hole (50 pieces)

Electronic coin validators and accessories

EMP01	Electronic coin acceptor for the installation on Terminal-MS, -MH or the lower panel of Terminal-ML (cars only) ^{3,4}
EMP02	Electronic coin acceptor for the installation on the upper panel of Terminal-ML (lorries only) ^{3,4}
EMP03	Electronic coin acceptors for the installation on the upper and lower panel of Terminal ML (cars and lorries) ^{3,5}

Access control unit and accessories

ZKE01	Access control unit for proximity cards and transponders with key ring ^{6,7}
ZKK0110	Proximity card, ISO-format (10 pcs)
ZKA0110	Transponder with key ring (10 pcs)
MP20	Mounting plate for 230 V connection ⁸
VE24	Power supply 24V/0.42A 10W, with connection cables ⁹

Keypad

CT01	Keypad, IP 65 ^{6,10}
MP20	Mounting plate with 230V connection for installation of electrical accessories ⁸
VE24	Power supply 24V/0.42A 10W, with connection cables ⁹

¹ The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.

² With collecting bin. Includes cut-out for front panel and assembly. Wiring is included when ordering mounting plate MP20.

³ The coin validators can be operated in a temperature range between -20 up to +70 °C. Therefore it is not necessary to use any heating system with outdoor applications under a roof. If the installation is without roof, we recommend to install a heating system HZ01, in order to avoid that the slot for inserting the coins will freeze. For temperatures below -20°C, a heating system is generally required.

⁴ Coin validator, display unit, power supply and relay unit, mounting plate MP20.

⁵ Two coin validators, two display units, one power supply and relay unit and mounting plate MP20.

Article number	Article description
Switches	
SS21	Key switch locked open/momentary close ¹¹
SS22	Key-operated momentary switch open/close ¹¹
PHZE01	Individual key cylinder with 3 keys
PHZG01	Keyed alike cylinder with 3 keys
EP21	Assembly charge key switch per front panel

Other accessories

HZ01	Heater 230V/550W, installation kit ⁹
HSS20	2-pole main switch ⁹
MP20	Mounting plate with 230V connection for installation of electrical accessories ⁸
EP20	Assembly charge for accessories per mounting plate

Charges for installation of devices supplied by the customer

EP22	Non-recurring creation of milling program for processing of front panel according to customers parameters ¹²
EP23	Cut-out according to milling program ¹³
EP24	Installation of customer supplied components on front panel ¹⁴

Spare parts

A comprehensive digital list of spare parts for Terminals is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

⁶ Including wiring, if mounting plate MP20 and, if applicable, power supply unit VE24 are also ordered.

⁷ Without power supply. Terminal blocks and cable included. Installation included.

⁸ Including terminal blocks, strain relief, DIN-rails and cable ducts. Mounting plate is delivered already installed.

⁹ Installation only possible in combination with mounting plate MP20. This must be ordered separately.

¹⁰ Up to 8 digit code programmable. Assembly included.

¹¹ Including terminal blocks and connection cable, prepared for key cylinder.

¹² Only required for customer supplied components.

¹³ Per front panel. Has to be ordered 2x for Terminal-ML. Only required for on-site components.

¹⁴ Without wiring and testing. Assembly charge is per front panel.

Terminal-MXL, -MXXL

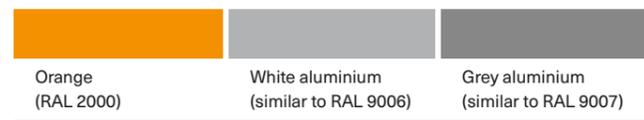
Free-standing housing

- > Universal platform for a wide variety of equipment
- > Large installation dimensions for customer-specific control systems
- > Shape and colours based on prize-winning design of Access barriers
- > Slide-out front cover for simple commissioning and maintenance
- > Maximum protection against corrosion



Technical data	Terminal-MXL	Terminal-MXXL
Application	Cars	Cars and trucks
Housing dimensions (W x H x D)	497 x 1495 x 367 mm	497 x 2795 x 367 mm
Installation space (W x H)	310 x 705 mm	310 x 1240 mm and 310 x 705 mm
Weight	56 kg	92 kg
Front cover design	Slide out on telescopic rails	Slide out on telescopic rails
Housing design	Powder-coated aluminium	Powder-coated aluminium
Base design	Stainless steel	Stainless steel
Enclosure rating	IP 54	IP 54

Standard colours, housing



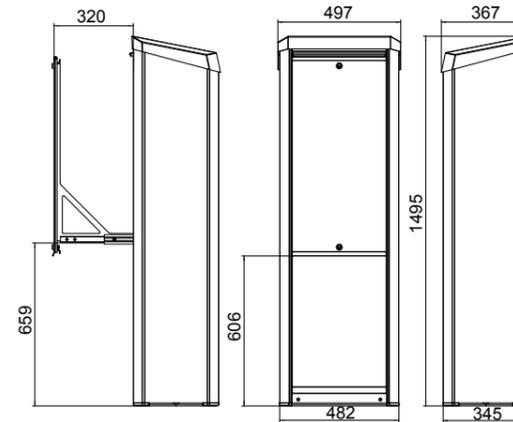
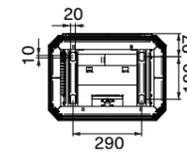
Special colours are also available on request and can be selected from the table of four-digit RAL colours.

Standard colours, front and back

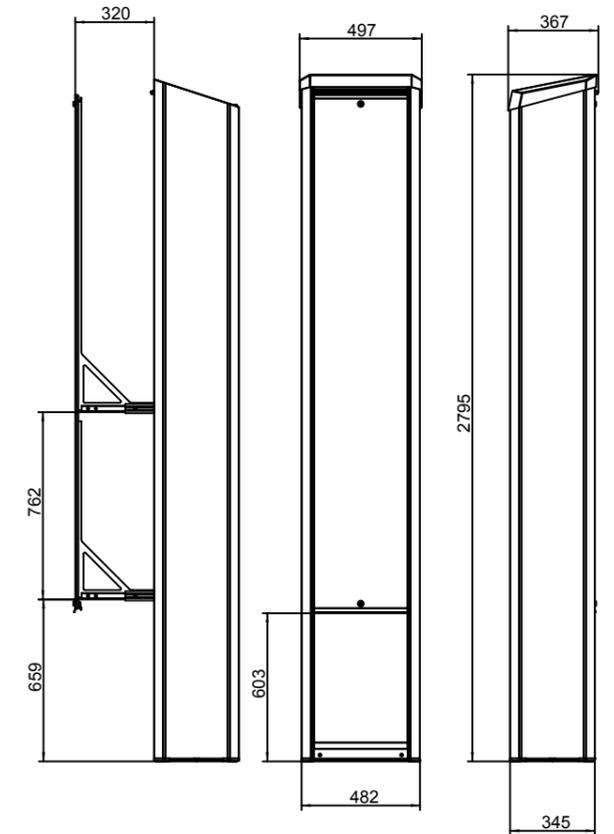


Dimensional drawings

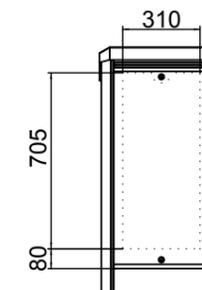
Terminal-MXL and -MXXL: View from below



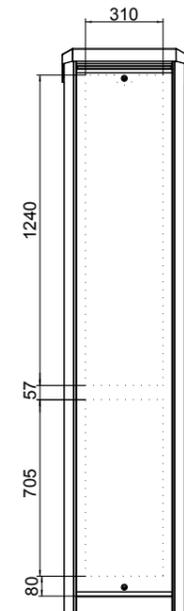
Terminal-MXL
Side view with fully extended front panel, from the front and from the opposite side



Terminal-MXXL
Side view with fully extended front panel, from the front and from the opposite side.



Terminal-MXL
Detailed view of front panel.



Terminal-MXXL
Detailed view of front panel.

The terminal front panel areas indicated with dotted lines can be equipped as desired. The spaces between the dotted lines and the solid lines are not available for installation purposes.

Terminal-MXL, -MXXL

Free-standing housing



Products in basic configuration	
Article number	Article description
TERMINAL-MXL-A000	Terminal-MXL, orange
TERMINAL-MXL-A100	Terminal-MXL, grey aluminium
TERMINAL-MXL-A200	Terminal-MXL, white aluminium
TERMINAL-MXXL-A000	Terminal-MXXL, orange
TERMINAL-MXXL-A100	Terminal-MXXL, grey aluminium
TERMINAL-MXXL-A200	Terminal-MXXL, white aluminium
BSS01	Anchor set for barrier/terminal

Special colours for Terminal-MXL, -MXXL	
Article number	Article description
SL21	Side panels and top cover in the same colour, front and back panels in black grey (similar to RAL 7021) ¹
SL22	Side panels, top cover, front and back panels in the same colour (extensible front panels black grey, similar RAL 7021) ¹
SL23	Side panels and top cover in the same colour, front and back panels in another selectable colour (extensible front panels black grey, similar RAL 7021) ¹
SL24	Side panels, top cover and doors in different colours (extensible front panels black grey, similar RAL 7021) ¹

Options and accessories for Terminal-MXL, -MXXL

Article number	Article description
Mechanical token validator and accessories	
CMP01-25	Token validator for tokens with a diameter of 25 mm, with groove (CMZ01-25)
CMP01-27	Token validator for tokens with a diameter of 27 mm, with groove (CMZ01-27)
CMP01-28	Token validator for tokens with a diameter of 28 mm, with hole (CMZ01-28)
CMP01-BS02	Installation kit set for token validators for Terminal-MXL, -MXXL ²
ZB03	Intermediate floor for Terminal-MXL, -MXXL
Tokens	
CMZ012550	Token, diameter 25 mm, with groove (50 pieces)
CMZ012750	Token, diameter 27 mm, with groove (50 pieces)
CMZ012850	Token, diameter 28 mm, with hole (50 pieces)
Electronic coin validators and accessories	
EMP04	Electronic coin acceptor for the installation on Terminal-MS, -MH or the lower panel of Terminal-ML (cars only) ^{3,4}
EMP05	Electronic coin acceptor for the installation on the upper panel of Terminal-ML (lorries only) ^{3,4}
EMP06	Electronic coin acceptors for the installation on the upper and lower panel of Terminal ML (cars and lorries) ^{3,5}
ZB03	Intermediate floor for Terminal-MXL, -MXXL
Access control unit and accessories	
ZKE01	Access control unit for proximity cards and transponders with key ring ^{6,7}
ZKK0110	Proximity card, ISO-format (10 pcs)
ZKA0110	Transponder with key ring (10 pcs)
MP20	Mounting plate for 230 V connection ⁸
VE24	Power supply 24V/0.42A 10W, with connection cables ⁹

- ¹ The powder coating with special colours will be provided with coarse structure in a silk glossy powder coating. Colour shades can be selected from the four digit RAL code range. The desired RAL colour has to be specified on the purchase order.
- ² With collecting bin. Includes cut-out for front panel and assembly. Wiring is included when ordering mounting plate MP20.
- ³ The coin validators can be operated in a temperature range between -20 up to +70 °C. Therefore it is not necessary to use any heating system with outdoor applications under a roof. If the installation is without roof, we recommend to install a heating system HZ01, in order to avoid that the slot for inserting the coins will freeze. For temperatures below -20°C, a heating system is generally required.
- ⁴ Coin validator, display unit, power supply and relay unit, mounting plate MP20.
- ⁵ Two coin validators, two display units, one power supply and relay unit and mounting plate MP20.

Article number	Article description
Keypad	
CT01	Keypad, IP 65 ^{6,10}
MP20	Mounting plate with 230V connection for installation of electrical accessories ⁸
VE24	Power supply 24V/0.42A 10W, with connection cables ⁹
Switches	
SS21	Key switch locked open/momentary close ¹¹
SS22	Key-operated momentary switch open/close ¹¹
PHZE01	Individual key cylinder with 3 keys
PHZG01	Keyed alike cylinder with 3 keys
EP21	Assembly charge key switch per front panel
Other accessories	
HZ01	Heater 230V/550W, installation kit ⁹
HSS20	2-pole main switch ⁹
MP20	Mounting plate with 230V connection for installation of electrical accessories ⁸
EP20	Assembly charge for accessories per mounting plate
Charges for installation of devices supplied by the customer	
EP22	Non-recurring creation of milling program for processing of front panel according to customers parameterse ¹²
EP23	Cut-out according to milling program ¹³
EP24	Installation of customer supplied components on front panel ¹⁴

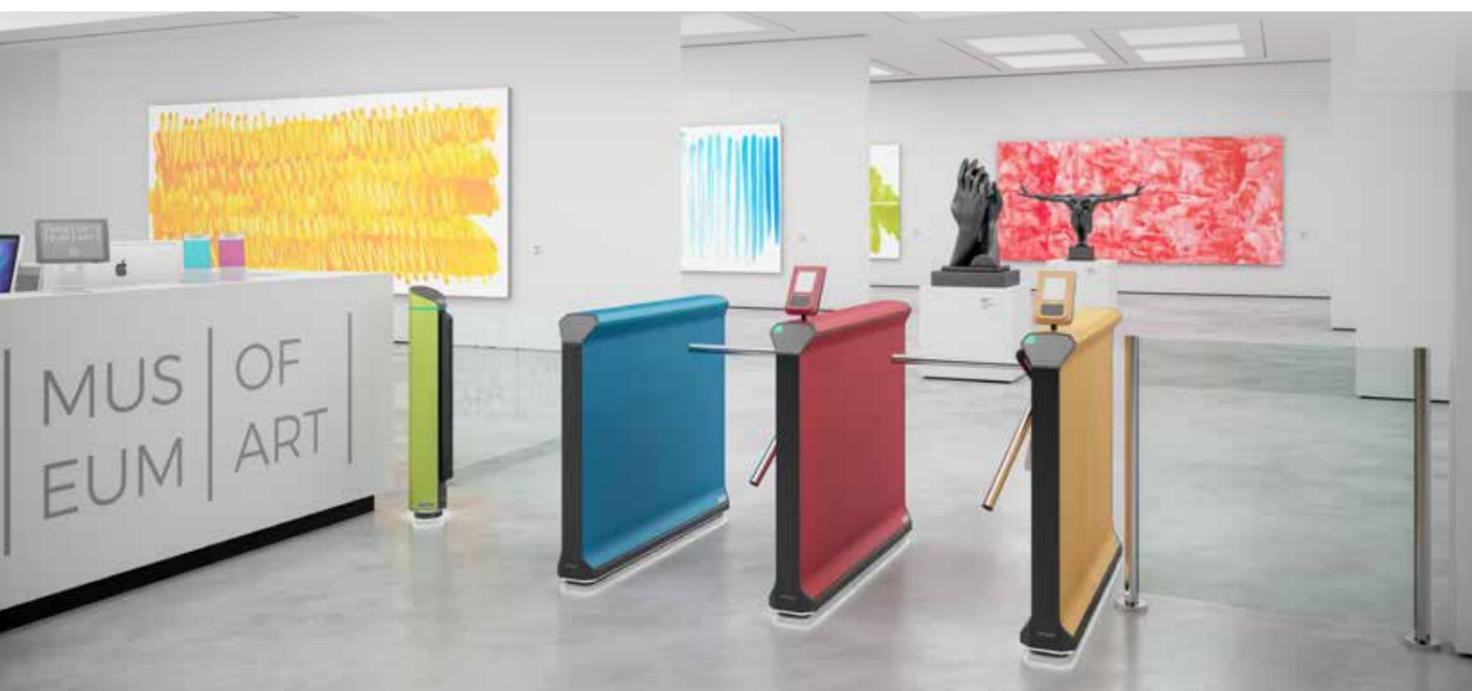
Spare parts

A comprehensive digital list of spare parts for Terminals is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

- ⁶ Including wiring, if mounting plate MP20 and, if applicable, power supply unit VE24 are also ordered.
- ⁷ Without power supply. Terminal blocks and cable included. Installation included.
- ⁸ Including terminal blocks, strain relief, DIN-rails and cable ducts. Mounting plate is delivered already installed.
- ⁹ Installation only possible in combination with mounting plate MP20. This must be ordered separately.
- ¹⁰ Up to 8 digit code programmable. Assembly included.
- ¹¹ Including terminal blocks and connection cable, prepared for key cylinder.
- ¹² Only required for customer supplied components.
- ¹³ Per front panel. Has to be ordered 3x for Terminal-MXXL. Only required for on-site components.
- ¹⁴ Without wiring and testing. Assembly charge is per front panel.

FlowMotion®

Your Access to Revolution



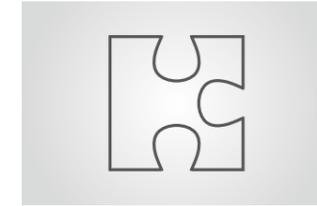
Pedestrian barriers as an integral component of the architecture

Magnetic has revolutionised the world of pedestrian barriers and reinterpreted security in buildings with the FlowMotion® model series. Thanks to its unique design, flowing lines and range of colour variants, FlowMotion® pedestrian barriers fit seamlessly into challenging architecture. The pleasant feel of the new material mDure means that initial contact with the material is a pleasant experience for visitors.



Award-winning design

All FlowMotion® access controls have a uniform design. The slimline form blends harmoniously into challenging architecture and the inviting design improves user acceptance. In 2018, the mTripod turnstile was awarded the German Design Award by a discerning jury.



Individual colours

Seamless integration into various different architectures – Magnetic designed FlowMotion® with this goal in mind. This means not only focussing on the design but also the colour of the housing. Therefore, we offer all of the pedestrian barriers in our model series in a range of different colour tones and effect coatings. FlowMotion® entrance areas can thus be transformed into brand worlds.



Systematic access controls

The turnstile, swing and wing barriers in the FlowMotion® model series protect companies, public authorities and cultural institutions against unauthorised access. Thanks to the uniform design of FlowMotion®, all of the product can be individually combined in a particularly easy way. Numerous options and accessories make FlowMotion® a perfectly coordinated access control system.



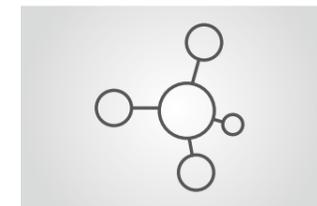
Proven drive and control technology

The interior of the FlowMotion® series is based on the reliable drive and control technology that is also used in the barriers and gates from Magnetic: The MGC control unit provides direct access to all functions, parameters and information, as well as to the proven MHTM™ drive unit that enables pedestrians to pass through in a particularly comfortable way thanks to its highly responsive sensor technology. It is maintenance-free, energy efficient, quiet and designed for 10 million cycles.



Instinctively accepted by users

Rather than handling security in buildings so that it appears that the control mechanisms have been artificially imposed on the building, the FlowMotion® series uses modern interfaces, a pleasant feel and an intuitive throughput process so that it integrates seamlessly into the overall building system. This significantly increases acceptance of the systematic and automatic access controls by users.



Customised material

The 2-component material mDure is created using a chemical reaction directly in the mould, which allows exceptional design freedom. The material is not only particularly resistant to knocks, scratches and abrasion but is also flame-retardant and free of solvents, softening agents and toxic substances. It is thus ideal for indoor use.

A large family

The FlowMotion® range of models



mTripod /mTripod short

The comfortable one: its smooth drive and sensitive impact detection make passage through the mTripod and mTripod short particularly simple and comfortable.

Barrier technology

Turnstile

Opening and closing speed

Medium

Security level

Low

[From page 66](#)

mSwing

The versatile one: you not only design optically appealing entrances with the mSwing swing door, it is also our specialist for wheelchair-friendly access and safe escape routes.

Barrier technology

Swing door

Opening and closing speed

Low

Security level

Low

[From page 74](#)

mWing

The elegant one: an open housing, short opening times and flowing non-contact passage – no access solution is safer and more elegant than mWing.

Barrier technology

Pedestrian passageway with wing gates

Opening and closing speed

High

Security level

Medium to high (depending on the barrier element)

[From page 70](#)

mTwing

The welcoming solution: Half-height turnstile with transparent barrier and railing elements for an unrestricted view into the building

Barrier technology

Half-height turnstile

Opening and closing speed

Low

Security level

Low

[In development](#)

mSlide

The secure one: nobody gets past this one – and certainly not over it. The barrier elements on the mSlide are up to 1800 mm tall and separate sensitive areas with continuous glass panels.

Barrier technology

Pedestrian passageway with sliding doors

Opening and closing speed

High

Security level

Medium to high (depending on the barrier elements)

[In development](#)

mFlap

The quick one: unbeatable! mFlap offers the fastest opening and closing speeds of all our FlowMotion® pedestrian gates. They thus inspect large numbers of visitors in the shortest of times.

Barrier technology

Pedestrian passageway with wing flaps

Opening and closing speed

High

Security level

Low

[In development](#)

mTripod

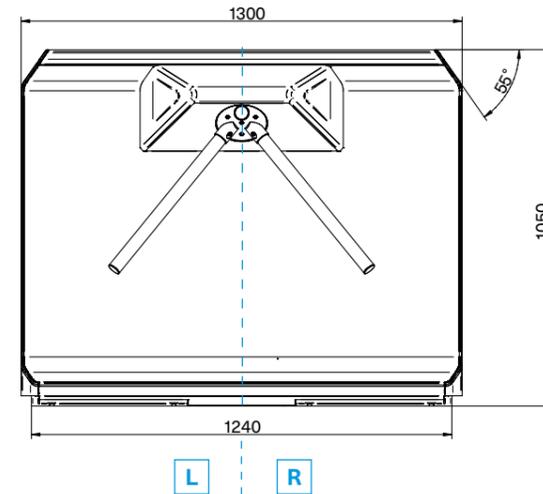
Three-arm turnstile

- > Revolutionary design, won German Design Award 2018
- > Extensive functions and intuitive operation
- > Drop-arm mechanism (optional) permits passage during power outages or alarms
- > Ethernet plug-in module for IP connection (optional)
- > Designed for more than 10 million opening and closing cycles

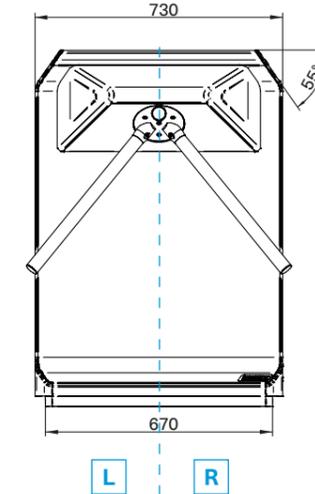


Dimensional drawings

mTripod – side view

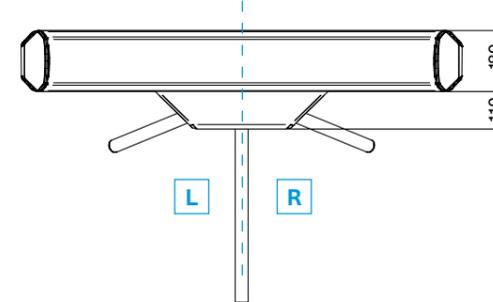


mTripod short – side view

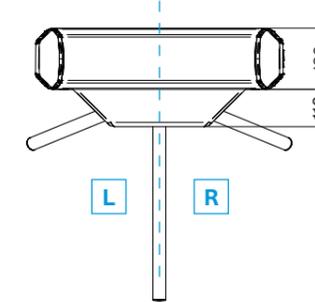


You can obtain options as left **L** or right **R** versions. If you look at the mTripod from the tip of the turnstile bar the option is on the left with the left version and on the right with the right version.

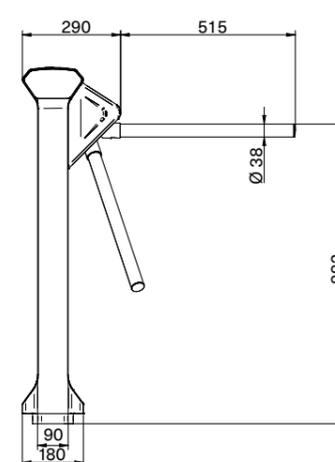
mTripod – top view



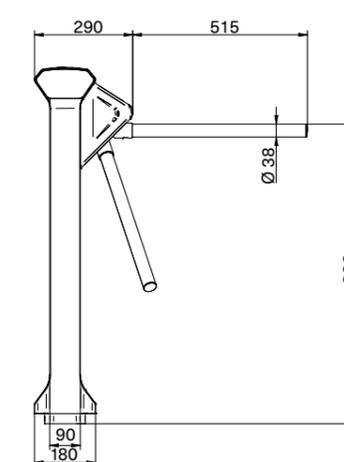
mTripod short – top view



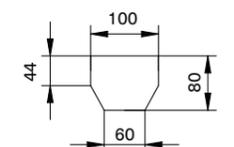
mTripod – front view



mTripod short – front view



Mounting space for reading devices for mTripod and mTripod short (without passage indicator, mounting depth 40 mm)



Technical data	mTripod	mTripod short
Housing variants	Long	Short
Application	Indoor and outdoor	Indoor and outdoor
Passage width	515 mm	515 mm
Drive technology	MHTM™	MHTM™
Control system	MGC	MGC
Voltage	100–240 VAC, 50/60 Hz	100–240 VAC, 50/60 Hz
Power consumption	Typical 30 W	Typical 30 W
Duty cycle	100%	100%
Housing material	mDure	mDure
Housing dimensions (L x W x H) mm	1300 x 290 x 1050	730 x 290 x 1050
Enclosure rating	IP 54	IP 54
Weight	About 70 kg	About 57 kg
Temperature range	-30 to +55 °C	-30 to +55 °C

Features	
Direction of passage	Uni- or bi-directional
Emergency release	On power outage or closing of alarm contacts
Random generator	Integrated in control system
Throughput data acquisition and event log	Integrated in control system
Control system inputs and outputs	8 digital inputs, 4 digital outputs, and 6 relay outputs

Standard colours	
Basalt (similar to RAL 9006)	Anthracite (similar to RAL 9005)

An overview of all special colours and effect coatings is available on page 82.

Potential applications	

mTripod

Three-arm turnstile



Products in basic configuration

Article number	Product description
FMTM_ML	Turnstile FlowMotion® mTripod long version
FMTM_MS	Turnstile FlowMotion® mTripod short version
FMTMPC_ML	Turnstile FlowMotion® mTripod long version, UL approval
FMTMPC_MS	Turnstile FlowMotion® mTripod short version, UL approval

The article numbers of the products automatically include the specified scope of delivery for the basic configuration. This scope of delivery must not be ordered separately, but can optionally be specified in a different configuration.

Scope of delivery in basic configuration

Article number	Product description
BA100	Standard housing with side panels in basalt (similar to RAL 9006) and mounting frame in anthracite (similar to RAL 9005), long version
BA101	Standard housing with side panels in basalt (similar to RAL 9006) and mounting frame in anthracite (similar to RAL 9005), short version
EA100	Stainless steel blocking arms (3 pcs.)
FP100	Face plate standard (2 pcs.)
BP100	Mounting profiles

Options	
Article number	Product description
With image	
DA100	Drop arm mTripod, mounted ²
RLED100	Frame edge illumination red/green for long mTripod version ^{2,3}
RLED101	Frame edge illumination red/green for short mTripod version ^{2,3}
BOLED100	Floor illumination white for long mTripod version ^{2,3}
BOLED101	Floor illumination white for short mTripod version ^{2,3}
GED100	Gate End Display – 2 pieces mounted for one passage ³
FP104	Front plate with RFID symbol
DLED100	Signal LED red
USE100	Over-climb detection for detection of an unauthorized passage by climbing over the blocking arm (acoustic signal with ESU01 available) ⁴
UKE100	Under-crawl detection for detection of an unauthorized passage below the blocking arm (acoustic signal with ESU01 available) ⁴
DT100	Illuminated push-button for release of passage by keystroke (per passage direction) ⁵
AVL100	Mounting device for reader V15 ⁵
CS100	Carbon blocking arms for mTripod (3 pcs.)
Without image	
SL100	Special colour front and rear panel, other elements in anthracite ¹
VERH100	Mechanical end-position locking, mounted ²
VE100	Power supply unit, one VE100 can supply all electric options
ESU01	Internal buzzer, puls signal/continuous signal ⁵
FP101	Face plate with customized cut-out
EM01	Ethernet interface as plug-in module
EP110	Mounting charge for illumination (per option)
EP111	Mounting charge for under-crawl/over-climb detection
EP112	Mounting charge for GED (per GED)
EP113	Mounting charge for accessories (per option)
EP114	Set up of milling programme for customized cut-outs of the front plate (only necessary if components for installation are provided)
EP115	Customized cut-outs according to drawing from the customer

Accessories	
Article number	Product description
BSS100	Mounting set for installation on finished floor surface
FURA100	Foundation frame FlowMotion®
FURA101	Short foundation frame FlowMotion®
BSSFURA100	Mounting set for installation of the FlowMotion® gate on foundation frame
KLP100	Base plate for glueing on finish floor surface FlowMotion®
KLP101	Short base plate for glueing on finish floor surface FlowMotion®
BSSKL100	Glue cartridge FlowMotion® for fixing of KPL100/KPL101 to a finished floor surface
PG01	Desk panel for 1 device
PG02	Desk panel for 2 devices
PG03	Desk panel for 3 devices
PG04	Desk panel for 4 devices
SM01	Service module for updating the controller software and copying parameters
NT100	Emergency-off button

Spare parts

A comprehensive digital list of spare parts for FlowMotion® is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ Overview of all colour tones and effect finishes on page 82.

² Power supply unit VE100 must be ordered separately.

³ In the mounted state, one illumination flat charge (EP110) is necessary per unit

⁴ In the mounted state, one crawl-under/climb-over detection flat charge (EP111) is necessary per unit

⁵ In the mounted state, one accessories flat charge (EP113) is necessary per unit

mWing

Pedestrian passageway with wing gates



- > High visitor throughput thanks to rapid opening times and preset travel function
- > Open-gate mode for extra throughput acceleration
- > For maximum security requirements in monitored and unmonitored areas
- > Low impact forces for maximum personal safety
- > Freely turning on power outages
- > Designed for 10 million opening and closing cycles

Technical data	mWing
Application	Indoor and outdoor
Passage width	Standard: 600 mm Wide Lane: 900 mm (more on request)
Total width for 1 line	960 mm (with 600 mm passage width) 1260 mm (with 900 mm passage width)
Height of barrier elements	Standard: 889 mm High: 1800 mm (more on request)
Opening/closing time	0.6 – 1 s, depending on barrier element dimensions
Drive technology	MHTM™
Control system	MGC
Voltage	100–240 VAC, 50/60 Hz
Power consumption	Maximum 45 W
Duty cycle	100%
Housing material	mDure
Housing dimensions (L x W x B)	1300 x 1050 x 180 mm
Enclosure rating	IP 54
Weight	About 120 kg per module
Temperature range	-30 to +55 °C

Features	
Direction of passage	Uni- or bi-directional
Emergency release	On power outage or closing of alarm contacts
Random generator	Integrated in control system
Throughput data acquisition and event log	Integrated in control system
Control system inputs and outputs	8 digital inputs, 4 digital outputs, and 6 relay outputs

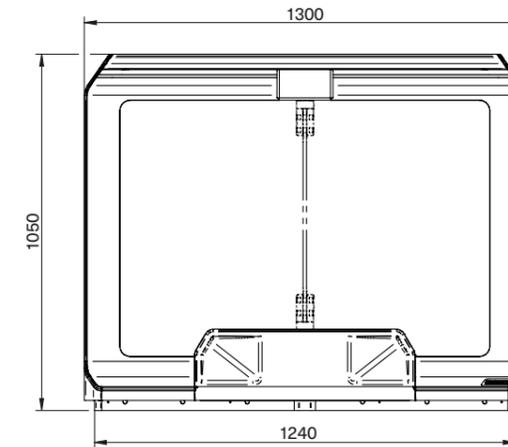
Standard colours	
	
Basalt (similar to RAL 9006)	Anthracite (similar to RAL 9005)

An overview of all special colours and effect coatings is available on page 82.

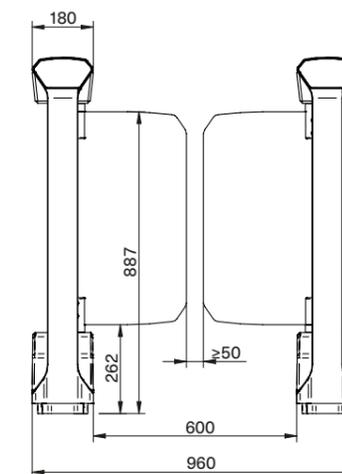
Potential applications				
				

Dimensional drawings

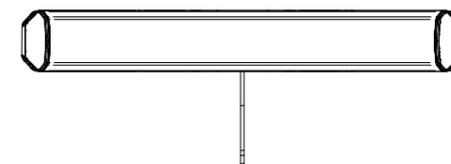
mWing – side view



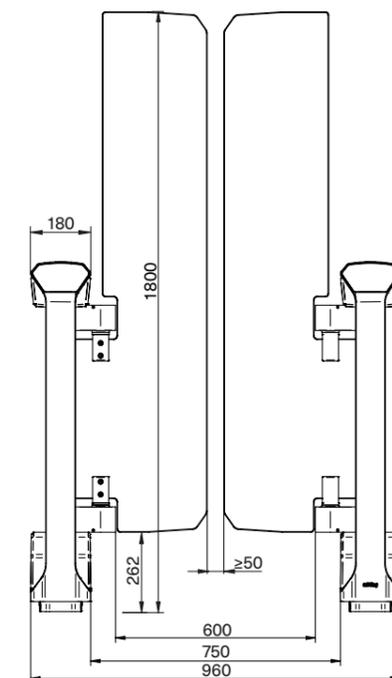
mWing – front view



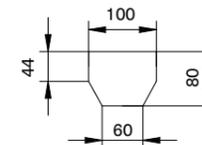
mWing – top view (1 module)



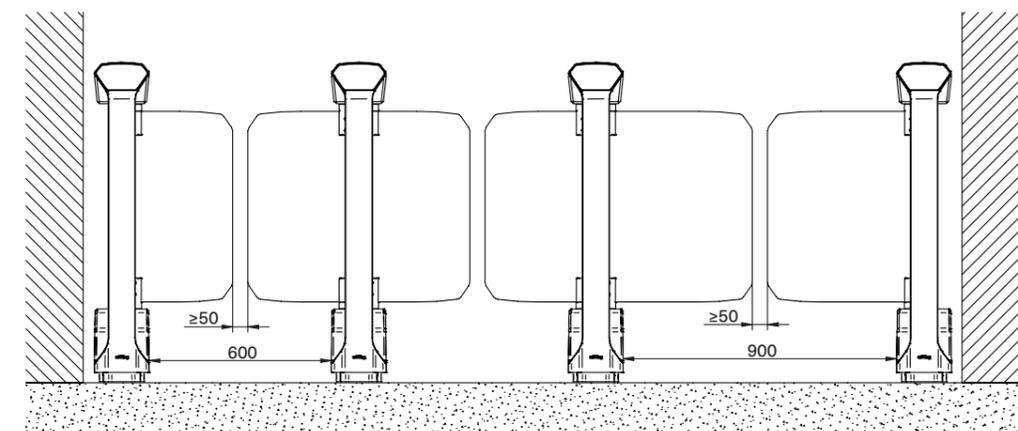
mWing – front view with high glass panel



Mounting space for reader devices
(without optional passage indicator,
mounting depth 40 mm)



Line configuration of mWing with passage in standard width and with wide passageway



mWing

Pedestrian passageway with wing gates



Products in basic configuration

Article number	Product description
FMWI_AL	Pedestrian passageway with wing gates FlowMotion® mWing, A module Slave
FMWI_BL	Pedestrian passageway with wing gates FlowMotion® mWing, B module Master
FMWI_CL	Pedestrian passageway with wing gates FlowMotion® mWing, C module Center

The article numbers of the products automatically include the specified scope of delivery for the basic configuration. This scope of delivery must not be ordered separately, but can optionally be specified in a different configuration.

Scope of delivery in basic configuration

Article number	Product description
BA102	Standard housing with side panes in basalt (similar to RAL 9006) and mounting frame in anthracite (similar to RAL 9005)
GSIE102	Inlay glass pane tempered safety glass
GED100	Gate End Display – 2 pieces mounted for one passage ^{1,2}
FP100	Face plate standard (2 pcs.)
BP100	Mounting profiles

Blocking elements

Article number	Product description
FMWI_G10E520	Glass pane XS: 887 x 520 mm (height x passage width)
FMWI_G10E600	Glass pane standard width: 887 x 600 mm (height x passage width)
FMWI_G10E900	Glass pane wide lane: 887 x 900 mm (height x passage width)
FMWI_G10E960	Glass pane XXL: 887 x 960 mm (height x passage width)
FMWI_G18E520	Glass pane full-height XS: 1800 x 520 mm (height x passage width)
FMWI_G18E600	Glass pane full-height standard width: 1800 x 600 mm (height x passage width)
FMWI_G18E900	Glass pane full-height wide lane: 1800 x 900 mm (height x passage width)
FMWI_G18E960	Glass pane full-height XXL: 1800 x 960 mm (height x passage width)
FMWI_GESPC	Glass pane with special dimensions

Options

Article number	Product description
With image	
RLED102	Frame edge illumination red/green ^{1,2}
BOLED102	Floor illumination white ^{1,2}
FP104	Front plate with RFID symbol
DLED100	Signal LED red ²
DLED101	Signal LED red for Slave ²
DT105	Illuminated push-button, 2 pcs. mounted for one passage Master/Slave ³
GSIV102	Inlay glass pane laminated safety glass
AVL100	Mounting device for reader V13 ³
Without image	
SL100	Special colour front and rear panel, other elements in anthracite ⁴
VE107	Power supply unit, one VE107 can supply all electric options
ESU102	Internal buzzer, puls signal/continuous signal ³
FP101	Face plate with customized cut-out
EP110	Mounting charge for illumination (per option)
EP113	Mounting charge for accessories (per option)
EP114	Set up of milling programme for customized cut-outs of the front plate (only necessary if components for installation are provided)
EP115	Customized cut-outs according to drawing from the customer

Accessories

Article number	Product description
BSS100	Mounting set for installation on finished floor surface
FURA100	Foundation frame FlowMotion®
BSSFURA100	Mounting set for installation of the FlowMotion® gate on foundation frame
KLP100	Base plate for glueing on finish floor surface FlowMotion®
BSSKL100	Glue cartridge FlowMotion® for fixing of KPL100 to a finished floor surface
PG01	Desk panel for the control of 1 device
PG02	Desk panel for the control of 2 devices
PG03	Desk panel for the control of 3 devices
PG04	Desk panel for the control of 4 devices
SM01	vice module for updating the controller software and parameters
NT100	Emergency stop switch

Spare parts

A comprehensive digital list of spare parts for FlowMotion® is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

- ¹ Power supply unit VE107 must be ordered separately.
- ² In the mounted state, one illumination flat charge (EP110) is necessary per unit
- ³ In the mounted state, one accessories flat charge (EP113) is necessary per unit
- ⁴ Overview of all colour tones and effect finishes on page 82.

mSwing

Swing doors

- > As single or double doors for visitor entrances, passage with baggage, transport routes and wheelchair-friendly access
- > For unobstructed escape routes in emergencies
- > Ideally complements the mTripod access control system
- > Compact accommodation of drive and control systems in the centre column
- > Low impact forces for maximum personal safety
- > Freely turning on power outages
- > Designed for 10 million opening and closing cycles



Technical data	mSwing
Application	Indoor and outdoor
Passage width	Standard: 1000 mm Wide Lane: 1200 mm (more on request)
Barrier element height	Standard: 994 mm (more on request)
Opening/closing time	3–4 s, depending on barrier element dimensions
Opening angle	Adjustable from 0–300°
Drive technology	MHTM™
Control system	MGC
Voltage	100–240 VAC, 50/60 Hz
Power consumption	Maximum 45 W
Duty cycle	100%
Housing material	Aluminium
Housing height	1092 mm
Housing diameter	Maximum 183 mm
Enclosure rating	IP 54
Weight	About 40 kg (without blocking element)
Temperature range	–30 to +55 °C

Features	
Direction of passage	Uni- or bi-directional
Emergency release	Can be parameterised: fixed position or freely turning
Control system inputs and outputs	8 digital inputs, 4 digital outputs, and 6 relay outputs
Configuration	Via USB interface from external

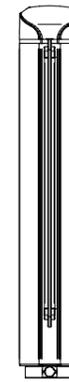
Standard colours	
	
Basalt (similar to RAL 9006)	Anthracite (similar to RAL 9005)

An overview of all special colours and effect coatings is available on page 82.

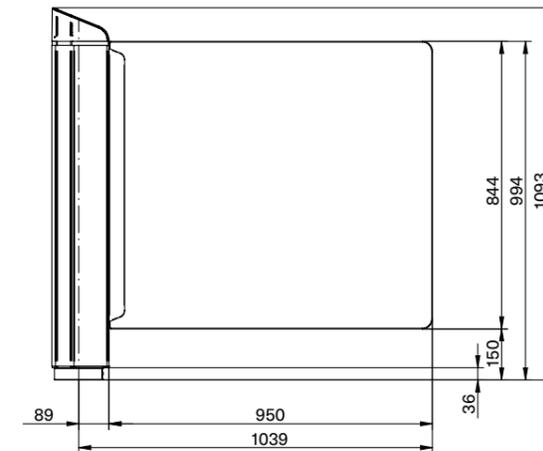
Potential applications				
				

Dimensional drawings

mSwing – side view



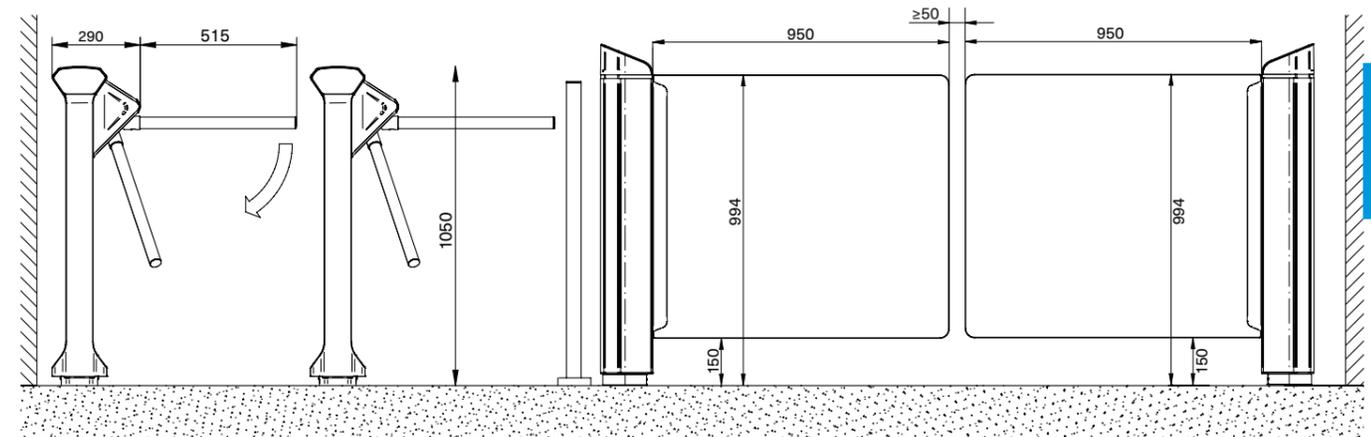
mSwing – front view



mSwing – top view

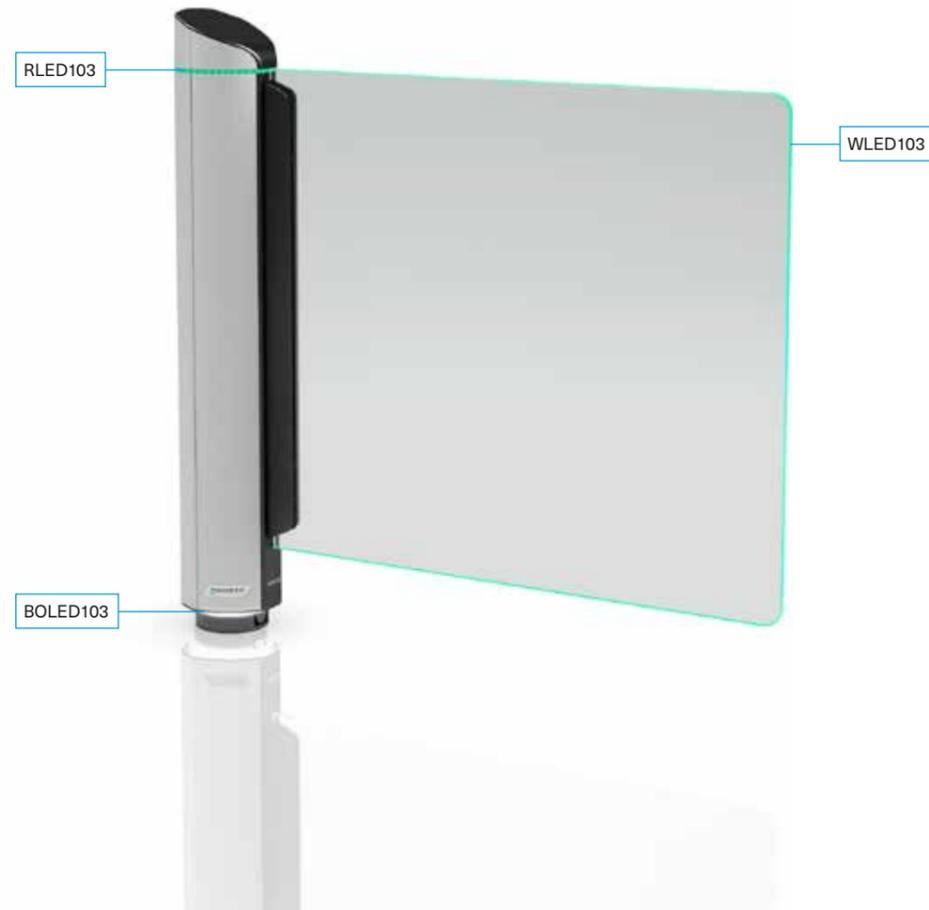


Line configuration with mTripod and mSwing as double swing gate



mSwing

Swing doors



Products in basic configuration

Article number	Product description
FMSW_MG	Swing door FlowMotion® mSwing with glass pane

The article numbers of the products automatically include the specified scope of delivery for the basic configuration. This scope of delivery must not be ordered separately, but can optionally be specified in a different configuration.

Scope of delivery in basic configuration

Article number	Product description
BA103	Standard housing with center column in basalt (similar to RAL 9006) and mounting elements in anthracite (similar to RAL 9005)

Blocking elements	
Article number	Product description
FMSW_G10E950	Glass pane in standard size: 994 x 1000 mm (height x passage width)
FMSW_G18E950	Glass pane full-height standard: 1800 x 1000 mm (height x passage width)
FMSW_GESPC	Glass pane with special dimensions

Options	
Article number	Product description
With image	
RLED103	Cover illumination red/green ²
BOLED103	Floor illumination white ²
WLED103	Wing illumination red/green ²
Without image	
SL103	Special colours for external tube, other elements are in anthracite ¹
ESU01	Installed buzzer with pulse/continuous signal ³
EM01	Ethernet interface as plug-in module
EP110	Illumination flat charge (per option)
EP113	Accessories flat charge (per option)

Accessories	
Article number	Product description
BSS103	Attachment set for mounting on finished floor surface
FURA103	Foundation frame mSwing
BSSFURA103	Attachment set FlowMotion® for mounting on foundation frame
PG01	Desk panel for the control of 1 device
PG02	Desk panel for the control of 2 devices
PG03	Desk panel for the control of 3 devices
PG04	Desk panel for the control of 4 devices
SM01	Service module for updating the controller software and parameters
NT100	Emergency stop switch

Spare parts

A comprehensive digital list of spare parts for FlowMotion® is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ Overview of all colour tones and effect finishes on page 82.

² In the mounted state, one illumination flat charge (EP110) is necessary per unit

³ In the mounted state, one accessories flat charge (EP113) is necessary per unit

mGuide

Railing system

- > Separation of areas for controlled and freely accessible zones
- > Ideal supplement as user guidance system for the FlowMotion® pedestrian gates
- > Clear transparent design seamlessly integrates into demanding architectures
- > Individually adaptable to point of use thanks to flexible width
- > Safety glass provides maximum user safety



Technical data	mGuide
Barrier width	Up to 1300 mm
Barrier element thickness	10 mm
Barrier elements	Glass panels made of single-layer safety glass (ESG) or acrylic glass, customer-specific barrier elements
Housing material	Stainless steel V2A
Housing height	1000 mm
Housing diameter	105 mm at base, 42 mm on columns

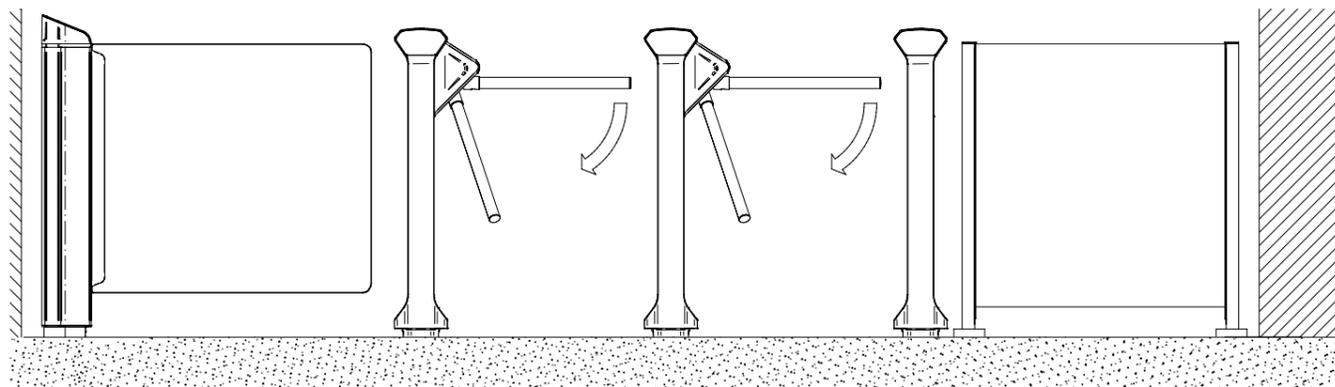
Technical data	Guiding element FlowMotion®
Housing material	mDure
Housing dimensions (L x W x B)	1300 x 290 x 1050 mm
Enclosure rating	IP 54

Standard colours

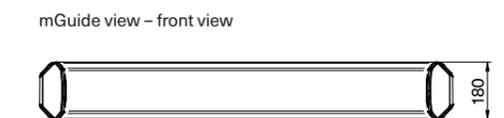
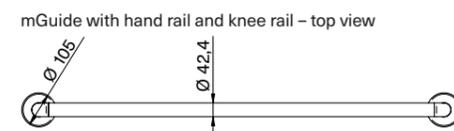
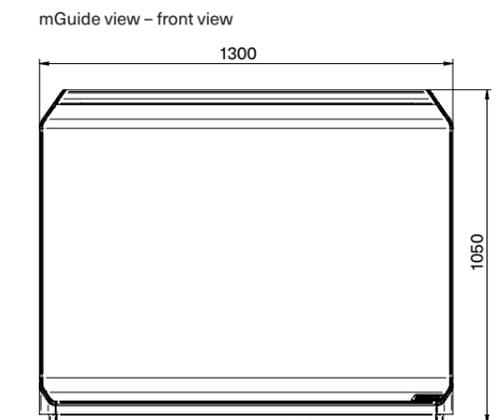
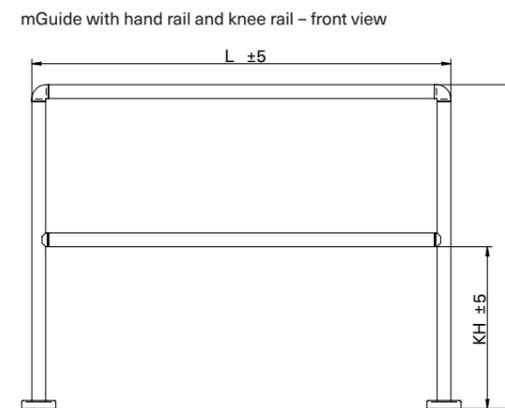
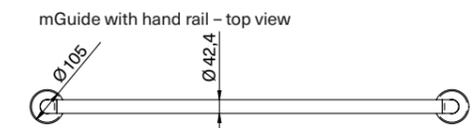
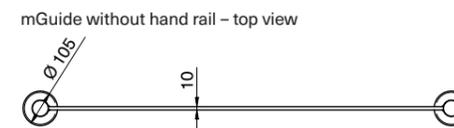
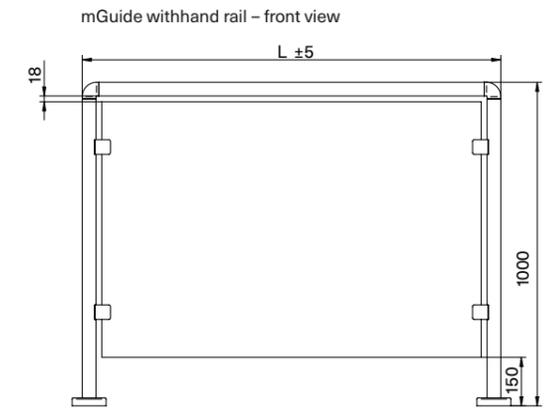
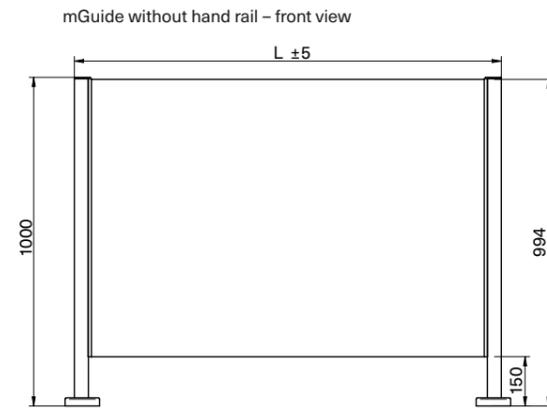
Basalt (similar to RAL 9006)	Anthracite (similar to RAL 9005)

Dimensional drawings

Line configuration with mSwing, mTripod and mGuide as user guidance and barrier element



Dimensional drawings



mGuide

Railing system



Guiding element FlowMotion®

mGuide without hand rail

mGuide with hand rail and knee rail

mGuide with hand rail

Guiding element FlowMotion®	
Article number	Product description
GFM100	mGuide FlowMotion housing as guiding element in standard colour, including BP100
GFM1X0	mGuide FlowMotion housing as guiding element in standard colour, including BP100

Post mGuide without hand rail	
Article number	Product description
GGPA100	End post mGuide with glass panel h = 1000 mm (1 pc.)
GGPA101	End post mGuide with glass panel h > 1000 mm (1 pc.)
GGPM100	Center post mGuide with glass panel h = 1000 mm (1 pc.)
GGPM101	Center post mGuide with glass panel h > 1000 mm (1 pc.)

Glass panel mGuide without hand rail	
Article number	Product description
GGE100	mGuide tempered safety glass with l = 1300 mm / h = 1000 mm
GGV100	mGuide laminated safety glass with l = 1300 mm / h = 1000 mm
GGE101	mGuide tempered safety glass with l = 1300 mm / h = 1200 mm
GGV101	mGuide laminated safety glass with l = 1300 mm / h = 1200 mm
GGE102	mGuide tempered safety glass with l = 1300 mm / h = 1500 mm
GGV102	mGuide laminated safety glass with l = 1300 mm / h = 1500 mm
GGE103	mGuide tempered safety glass with l = 1300 mm / h = 1800 mm
GGV103	mGuide laminated safety glass with l = 1300 mm / h = 1800 mm
GGE10X	mGuide tempered safety glass with l = X mm / h = Y mm (max. l = 1300 mm / h = 1800 mm)
GGV10X	mGuide laminated safety glass with l = X mm / h = Y mm (max. l = 1300 mm / h = 1800 mm)

Post mGuide with hand rail	
Article number	Product description
GBAF100	End post mGuide with hand rail and glass panel h = 870 mm (1 pc.)
GBAF101	End post mGuide with hand rail and glass panel h = 1000 mm (1 pc.)
GBMF100	Center post mGuide with hand-rail and glass panel h = 870 mm
GBMF101	Center post mGuide with hand-rail and glass panel h = 1000 mm

Glass panel mGuide with hand rail	
Article number	Product description
GBEF100	Tempered safety glass for glass panel mGuide with hand rail h = 870 mm / l = 1300 mm
GBEF101	Tempered safety glass for glass panel mGuide with hand rail h = 1000 mm / l = 1300 mm
GBEF100X	Tempered safety glass for glass panel mGuide with hand rail h = 870 mm / l = X mm (max. l = 1300 mm)
GBEF101X	Tempered safety glass for glass panel mGuide with hand rail h = 1000 mm / l = X mm (max. l = 1300 mm)
GBVF100	Laminated safety glass for glass panel mGuide with hand rail h = 870 mm / l = 1300 mm
GBVF101	Laminated safety glass for glass panel mGuide with hand rail h = 1000 mm / l = 1300 mm
GBVF100X	Laminated safety glass for glass panel mGuide with hand rail h = 870 mm / l = X mm (max. l = 1300 mm)
GBVF101X	Laminated safety glass for glass panel mGuide with hand rail h = 1000 mm / l = X mm (max. l = 1300 mm)

Post mGuide with hand rail and knee rail	
Article number	Product description
GBAK100	End post mGuide with hand rail and knee rail h = 870 mm (1 pc.)
GBAK101	End post mGuide with hand rail and knee rail h = 1000 mm (1 pc.)
GBMK100	Center post mGuide with hand rail and knee rail h = 870 mm
GBMK101	Center post mGuide with hand rail and knee rail h = 1000 mm
GBHL100	Hand rail mGuide l = 1300 mm (1 pc.)
GBK100	Railing with hand rail and knee rail fully mounted l = 1300 mm / h = 870 mm
GBK101	Railing with hand rail and knee rail fully mounted l = 1300 mm / h = 1000 mm

FlowMotion®

Colour variants



To ensure that the products from the FlowMotion® family can be seamlessly integrated into existing architecture, we offer all housings in a variety of different colour tones and effect coatings.

Other colour options available on request. Subject to colour variations.

Standard colours RAL

RAL 1015 Light ivory	RAL 1017 Saffron yellow	RAL 2004 Pure orange	RAL 2012 Salmon orange
RAL 3002 Carmine red	RAL 3003 Ruby red	RAL 3004 Purple red	RAL 3012 Beige red
RAL 4004 Claret violet	RAL 4007 Purple violet	RAL 4008 Signal violet	RAL 5019 Capri blue
RAL 5024 Pastel blue	RAL 7015 Slate grey	RAL 7016 Anthracite grey	RAL 7035 Light grey
RAL 7036 Platinum grey	RAL 9001 Cream	RAL 9003 Signal white	RAL 9005 Jet black
RAL 9006 White aluminium	RAL 9010 Pure white	RAL 9016 Traffic white	

Standard colours NCS

NCS 0080-G40Y Green	NCS S 0300-N Broken white	NCS S 0507-Y Light yellow	NCS S 0520-B70G Mint
NCS S 0530-Y Yellow	NCS S 0560-G50Y Yellow green	NCS S 0603-G80Y Light beige	NCS S 0603-Y20R Light ivory
NCS S 1002-Y50R White grey	NCS S 1005-Y50R Beige	NCS S 1020-B50G Light turquoise	NCS 1040-G60Y Light yellow
NCS S 1060-B Light blue	NCS S 1502-Y50R Light beige	NCS S 2005-Y50R Light warm beige	NCS S 2005-Y60R Light brown
NCS S 2020-R40B Light purple	NCS S 4010-Y30R Anise	NCS S 4020-Y60R Brown	NCS S 4050-R50B Purple
NCS S 5005-R20B Red grey	NCS S 7010-Y30R Dark brown	NCS S 7500-N Dark grey	

MP access control

Robust, efficient and individually adaptable



Access controls to meet your specific requirements

For controlling people, guiding visitors and managing access to secure areas, the pedestrian barriers from the MP product generation deliver convincing solutions with respect to speed and security. The different modules and barrier widths mean that the products can be used for multiple applications in a space-saving way and can create passageways for suppliers, wheelchair users and visitor groups. Common characteristics of all the pedestrian barriers is the non-contact throughput process, sensitive controls and extremely energy-efficient and durable MHTM™ drive unit.



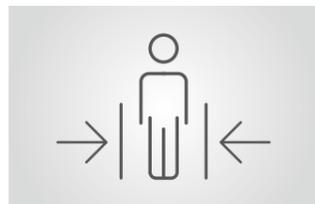
Quick separation of people

The MPR and MPH wing gates are also designed for the quick separation of large numbers of people. Depending on the requirements at the installation location, both modules can be used to construct especially quick or particularly secure access points.



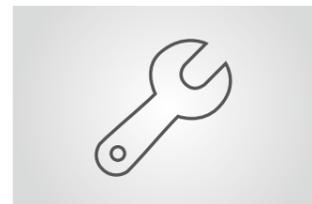
Innovative drive technology

The MHTM™ drive unit is maintenance-free, energy-efficient and quiet. The high torque guarantees the best possible operation even in extreme weather conditions.



Safe processes

Light barriers in the passageway reliably detect people and objects. They enable non-contact throughput and trigger an alarm in the event of unauthorised use.



Easily accessible components

One simple step is sufficient: Control units and drive units can be easily accessed by removing the hood and front plate. This makes it easier to use and speeds up commissioning and servicing work.



MPR wing gates

The quick solution: Wing gates with wing flaps made of PU foam or acrylic glass with extremely short opening times for the convenient control of large visitor numbers.

Barrier technology

Pedestrian passageways with swing gates

Opening and closing speed

High

Security level

Low

[From page 86](#)



MPH high swing gates

The secure solution: Wing gates with high gate elements made out of safety glass for continuously cordoning off sensitive areas while allowing people to pass through quickly.

Barrier technology

Pedestrian passageways with sliding doors

Opening and closing speed

Medium to high (depending on the barrier elements)

Security level

Medium to high (depending on the barrier elements)

[From page 90](#)

MPR

Retractable gate

- > Short opening times of 0.3 seconds for a high throughflow frequency
- > Comfortable non-contact passage
- > Space-saving installation of multiple applications
- > Simple integration of all common access control systems
- > Automatic opening if power fails
- > Wide variants suitable for wheelchairs, prams, and material transport
- > Designed for 10 million opening and closing cycles



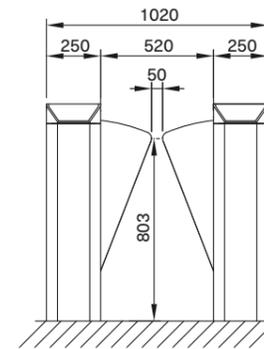
Technical data	MPR 112 (Standard)	MPR 112 (Wide Lane)
Passage width	520 mm	960 – 990 mm
Opening/closing time with PU foam	0.3 s	0.6 s
Opening/closing time with acrylic glass	0.35 s	–
Drive technology	MHTM™	MHTM™
Voltage	110 – 240 VAC, 50/60 Hz	110 – 240 VAC, 50/60 Hz
Power consumption	Maximum 35 W	Maximum 117 W
Duty cycle	100 %	100 %
Housing dimensions (L x W x H)	1300 x 250 x 1035 mm	1300 x 280 x 1035 mm
Housing material	Chrome steel 1.4016/SS430	Chrome steel 1.4016/SS430
Enclosure rating	IP 32	IP 32
Temperature range	0 to +45 °C	0 to +45 °C

Potential applications

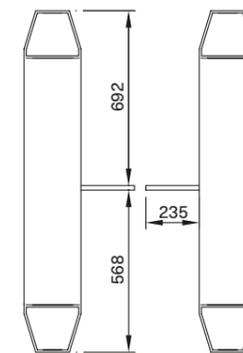


Dimensional drawings

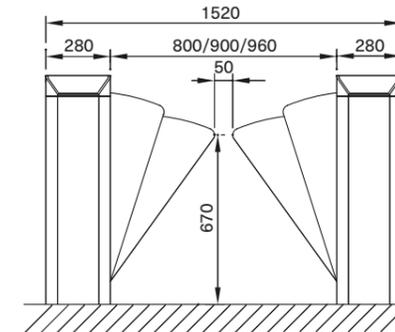
MPR 112 (Standard) with 520 mm passage width – front view



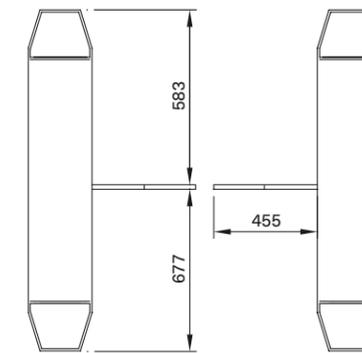
Top view



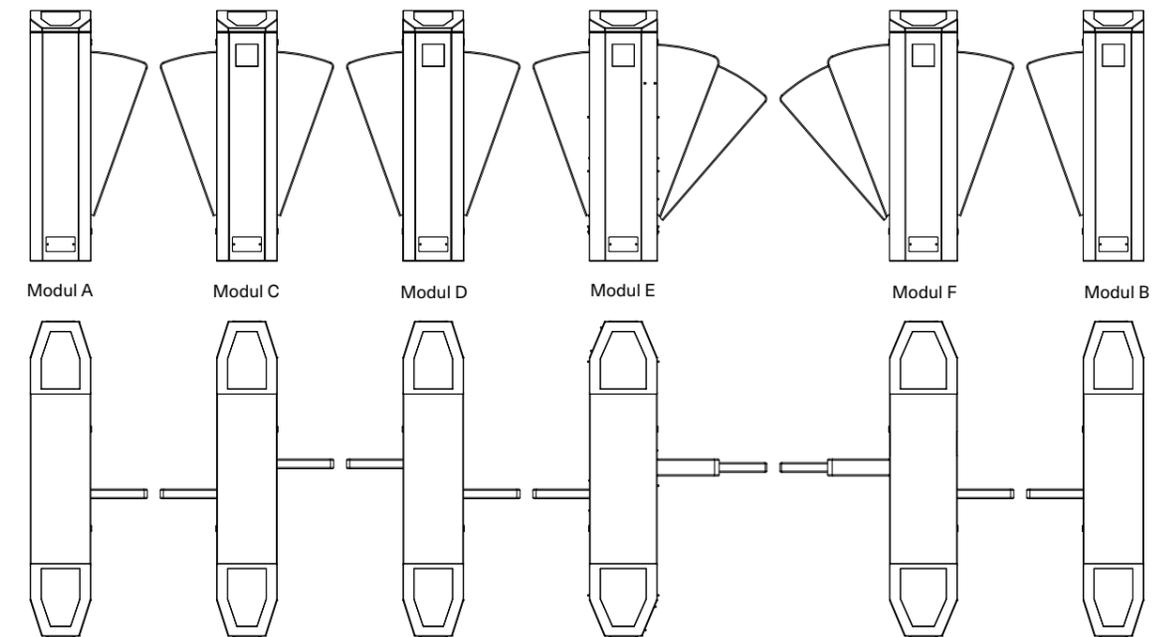
MPR 112 (Wide Lane) with 960 mm passage width – front view



Top view



Line configuration with combinable modules



MPR

Retractable gate



Products in basic configuration		
Retractable gate MPR in chrome steel 1.4016	with PUR ¹ wings	with Acryl wings
Product description	Article number	Article number
Base module A for MPR with passage width 520 mm	MPR-112A-A131	MPR-112A-A331
End module B for MPR with passage width 520 mm including controller	MPR-112B-A131	MPR-112B-A331
Center module C for MPR with passage width 520 mm including 2 controllers ²	MPR-112C-A131	MPR-112C-A331
Center module D for MPR with passage width 520 mm including 1 controller ³	MPR-112D-A131	MPR-112D-A331
Base module A for MPR with passage width 960 mm	MPR-112A-A232	-
End module B for MPR with passage width 960 mm including controller	MPR-112B-A232	-
Center module C for MPR with passage width 960 mm including 2 controllers ²	MPR-112C-A232	-
Center module D for MPR with passage width 960 mm including 1 controller ³	MPR-112D-A232	-
Transition module E for MPR including 2 controllers ²	MPR-112E-A432	-
Transition module F for MPR ³	MPR-112F-A432	-

Products in basic configuration		
Retractable gate MPR in stainless steel 1.4301 (V2A)	with PUR ¹ wings	with Acryl wings
Product description	Article number	Article number
Base module A for MPR with passage width 520 mm	MPR-112A-A111	MPR-112A-A311
End module B for MPR with passage width 520 mm including controller	MPR-112B-A111	MPR-112B-A311
Center module C for MPR with passage width 520 mm including 2 controllers ²	MPR-112C-A111	MPR-112C-A311
Center module D for MPR with passage width 520 mm including 1 controller ³	MPR-112D-A111	MPR-112D-A311
Base module A for MPR with passage width 960 mm	MPR-112A-A212	-
End module B for MPR with passage width 960 mm including controller	MPR-112B-A212	-
Center module C for MPR with passage width 960 mm including 2 controllers ²	MPR-112C-A212	-
Center module D for MPR with passage width 960 mm including 1 controller ³	MPR-112D-A212	-
Transition module E for MPR including 2 controllers ²	MPR-112E-A412	-
Transition module F for MPR ³	MPR-112F-A412	-

In the basic configuration, the MPR retractable gate is supplied with one front panel (base and end modules) or with two front panels (center and transition modules), with gate end display (GED). The front panels, as well as the height of the retractable gates, can be adapted to your requirements for an extra charge. Please contact us for further information: cs@ac-magnetic.com.

Spare parts

A comprehensive digital list of spare parts is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ PUR = Polyurethane.

² In combination with modules A and/or D.

³ In combination with modules B and/or C.

MPH

High wing gate

- > High separation reliability with rapid passage of persons
- > Comfortable non-contact passage
- > Simple integration of all common access control systems
- > Automatic opening if power fails
- > Wide variants suitable for wheelchairs, prams, bicycles, and material transport
- > Designed for 10 million opening and closing cycles



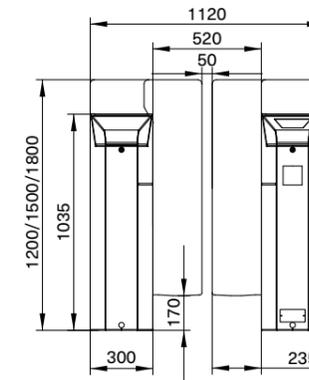
Technical data	MPH 112 (Standard)	MPH 112 (Wide Lane)
Passage width	520 mm	910 mm
Gate heights	1200, 1500 or 1800 mm	1200, 1500 or 1800 mm
Opening/closing time	0.6 – 1.2 s	1.0 – 1.4 s
Drive technology	MHTM™	MHTM™
Voltage	110 – 240 VAC, 50/60 Hz	110 – 240 VAC, 50/60 Hz
Power consumption	Maximum 100 W	Maximum 300 W
Duty cycle	100 %	100 %
Housing dimensions (L x W x H)	1300 x 300 x 1035 mm	1300 x 520 x 1035 mm
Housing material	Stainless steel 1.4301/SS304	Stainless steel 1.4301/SS304
Enclosure rating	IP 32	IP 32
Temperature range	0 to +45 °C	0 to +45 °C
Enclosure rating	IP 32	IP 32
Temperature range	0 to +45 °C	0 to +45 °C

Potential applications

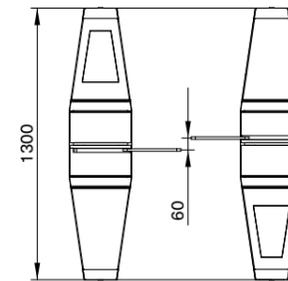


Dimensional drawings

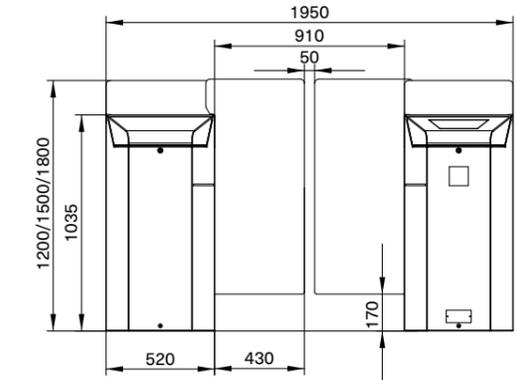
MPH 112 (Standard)
with 520 mm passage width – front view



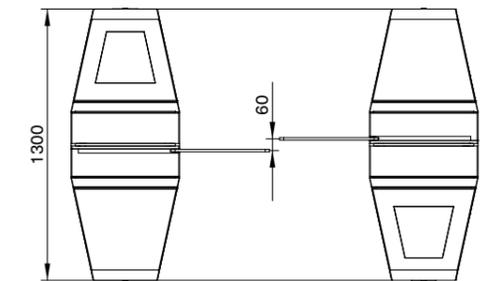
Top view



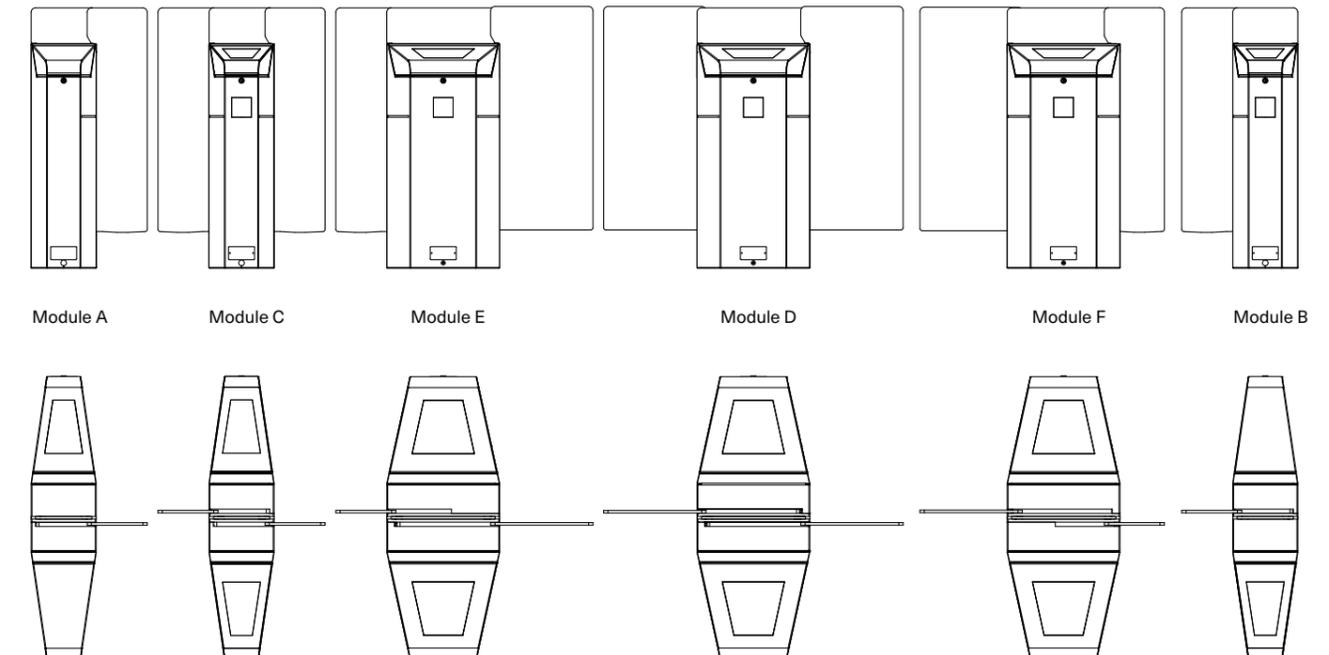
MPH 112 (Wide Lane)
with 910 mm passage width – front view



Top view



Line configuration with combinable modules



MPH

High wing gate



Products in basic configuration

Article number	Product description
MPH-112A-A111	Base module A for MPH with passage width 520 mm
MPH-112B-A111	End module B for MPH with passage width 520 mm
MPH-112C-A111	Center module C for MPH with passage width 520 mm
MPH-112A-A112	Base module A for MPH with passage width 910 mm

Products in basic configuration

Article number	Product description
MPH-112B-A112	End B module for MPH with passage width 910 mm
MPH-112C-A112	Center module C for MPH with passage width 910 mm
MPH-112E-A211	Transition module E for MPH
MPH-112F-A211	Transition module F for MPH

In the basic configuration, the MPH high wing gate is supplied with a wing height of 1200 mm, single-pane safety glass wings, with anti-climb protection and with one front panel (base and end modules) or with two front panels (center and transition modules) with gate end display (GED). The front panels, as well as the height of the wings, can be adapted to your requirements for an extra charge. Please contact us for further information: cs@ac-magnetic.com.

Spare parts

A comprehensive digital list of spare parts is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

Step into: The world of FlowMotion®.



FlowMotion®: Your Access to Revolution

We redefine security and reinterpret access control systems as an integral part of buildings. We realise access controls in passing with a unique design, numerous colour design options and drive and control technology that has proven itself many thousands of times over.

[Find out more about our new FlowMotion® model series from page 62](#)



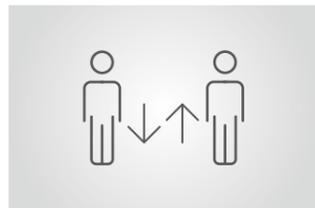
Perimeter protection

Efficient, secure, convenient



Optimal access controls for outdoors

External areas operated by companies, government authorities or airports also need to be secured against unauthorised access. At the same time, employees, suppliers and service providers must be able to enter or exit the area within a short amount of time. The turnstiles and swing doors from Magnetic can be easily integrated into the existing architecture or fencing system and provide a high level of security due to their size and robust design. The different modules and attachments mean that the passageways can be precisely adapted to the desired requirements.



Made-to-measure perimeter protection

Three different drive units are available: Electrically driven turnstiles are powered by the MHTM™ drive unit, while the user initiates the turning motion themselves in the electromechanical version. The purely mechanical turnstiles only allow visitors to pass through in one direction.



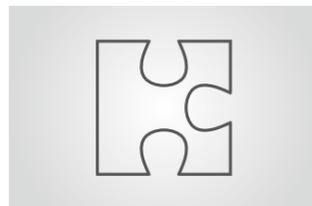
Innovative drive technology

The MHTM™ drive unit in the electrically driven versions of the turnstiles stands out due to its quiet, energy-efficient operation and particularly smooth start-up behaviour. The drive unit is maintenance-free and designed for 10 million people passing through the turnstile.



Comprehensive protection against the weather

The turnstiles and swing doors from Magnetic are ideally equipped for use outdoors: The material – either hot-dip galvanised steel with a powder coating or stainless steel – is resistant to the wind and weather. The housing has protection class IP 43 and provides ideal protection against the rain, splashing water and other foreign bodies.



Individual customisation

Single or double turnstiles, swing doors for bicycles and wheelchair users, with a roof or lighting – Magnetic offers customised perimeter protection for every installation location and every requirement.



MPT turnstile

The single version: Turnstile with one passageway with the MHTM™ drive unit, electromechanical or mechanical control

Application

Access control in one direction or alternating in two directions (only with the MHTM™ drive unit or electromechanical control)

From page 96



MPT double turnstile

The double version: Turnstile with two passageways with the MHTM™ drive unit, electromechanical or mechanical control

Application

Access controls with two passageways in one direction for especially high pedestrian traffic or in two directions at the same time

From page 100



MPG swing door for barrier-free access

The wide solution: Swing door with a MHTM™ drive unit, a passage width greater than 1000 mm and a 90° opening angle in both directions

Application

Access solutions for suppliers, groups of visitors, wheelchair users and all applications where a large passageway width is required – as a free-standing solution or as an attachment kit for turnstiles

From page 104



MPB turnstile with bicycle gate

The version for bicycles and riders: Turnstiles for pedestrians with an integrated swing door for bicycles that are reliably detected using inductive loops

Application

Secure and quick access solution for bicycle parking garages and for companies and facilities where employees can access the company premises on two wheels

From page 108

MPT Turnstile



- > Reliable securing of outdoor areas and company grounds with high rates of pedestrian traffic
- > Mechanical, electromechanical or motorized designs available
- > Sensitive impact detection for maximum safety
- > Numerous options, e.g. expansion for wheelchair access
- > Designed for 10 million opening and closing cycles

Technical data	MPT 132 3-wing	MPT 132 4-wing	MPT 333 3-wing	MPT 333 4-wing	MPT 330 3-wing	MPT 330 4-wing
Number of wings (angle)	3 (120°)	4 (90°)	3 (120°)	4 (90°)	3 (120°)	4 (90°)
Drive technology	MHTM™		electromechanical		mechanical	
Voltage	110 – 240 VAC, 50/60 Hz		110 – 240 VAC, 50/60 Hz		–	
Power consumption	45 W (without accessories)		70 W (without accessories)		–	
Duty cycle	100 %		100 %		–	
Enclosure rating	IP 43		IP 43		IP 43	
Dimensions (L x W x H)	1510 x 1288 x 2235 mm	1359 x 1076 x 2235 mm	1510 x 1288 x 2235 mm	1359 x 1076 x 2235 mm	1510 x 1288 x 2235 mm	1359 x 1076 x 2235 mm
Weight	approx. 250 kg	approx. 250 kg	approx. 250 kg	approx. 250 kg	approx. 250 kg	approx. 250 kg
Temperature range	-25 to +55 °C		-25 to +55 °C		-25 to +55 °C	

Standard colors and color options



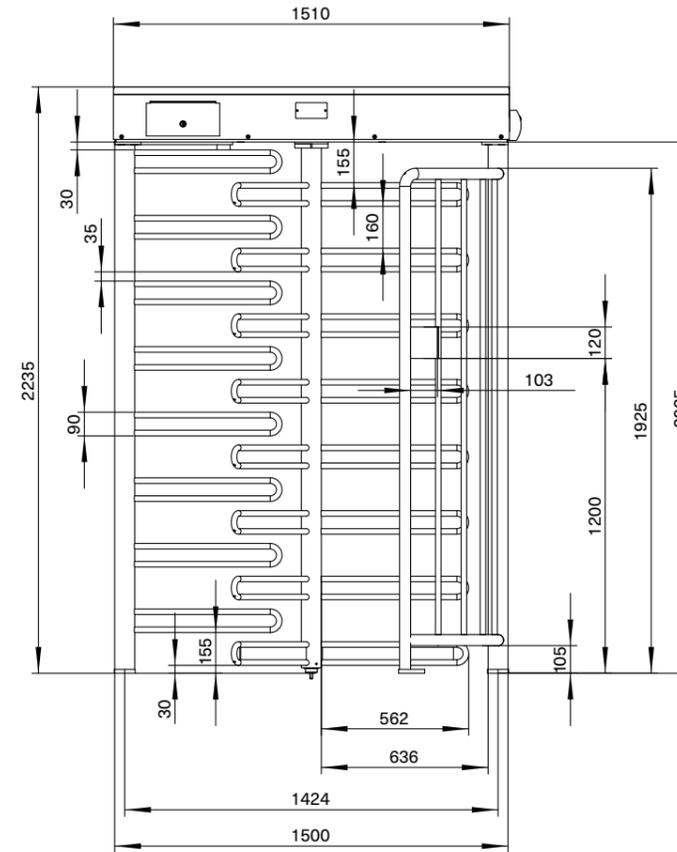
Special colours are also available on request and can be selected from the table of four-digit RAL colours.

Potential applications

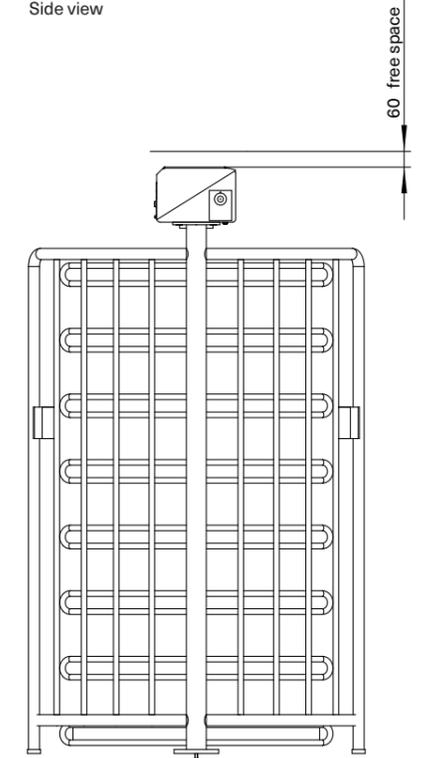


Dimensional drawings

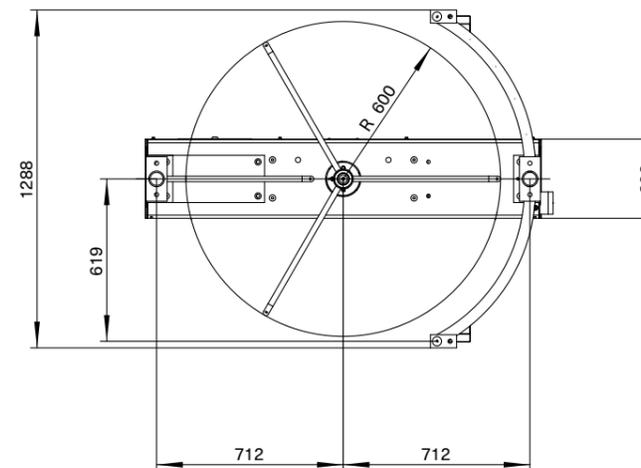
MPT 333 – 3-wing variants
Front view from inside



MPT 333 – 3-wing variants
Side view



MPT 333 – 3-wing variants
View from below



MPT

Turnstile



Products in basic configuration

Product description	Article number	Article number
Electro-motoric single turnstile MPT 132	with blocking comb	with half cage
Turnstile MPT 132 with powder coating in RAL7042	MPT132C-A300	MPT132C-A302
Turnstile MPT 132 with powder coating in RAL7016 or RAL6005	MPT132C-A380	MPT132C-A382
Turnstile MPT 132 with powder coating in special colour	MPT132C-A300X	MPT132C-A302X
Turnstile MPT 132 with powder coating in RAL7042 with center in stainless steel V4A	MPT132C-A340	MPT132C-A342
Turnstile MPT 132 with powder coating in RAL7016 or RAL6005 with center in stainless steel V4A	MPT132C-A360	MPT132C-A362
Turnstile MPT 132 with powder coating in special colour with center in stainless steel V4A	MPT132C-A340X	MPT132C-A342X
Electro-mechanical single turnstile MPT 333	with blocking comb	with half cage
Turnstile MPT 333 with powder coating in RAL7042	MPT333C-A300	MPT333C-A302
Turnstile MPT 333 with powder coating in RAL7016 or RAL6005	MPT333C-A380	MPT333C-A382
Turnstile MPT 333 with powder coating in special colour	MPT333C-A300X	MPT333C-A302X
Turnstile MPT 333 with powder coating in RAL7042 with center in stainless steel V4A	MPT333C-A340	MPT333C-A342
Turnstile MPT 333 with powder coating in RAL7016 or RAL6005 with center in stainless steel V4A	MPT333C-A360	MPT333C-A362
Turnstile MPT 333 with powder coating in special colour with center in stainless steel V4A	MPT333C-A340X	MPT333C-A342X

Products in basic configuration

Product description	Article number	Article number
Mechanical locked single turnstile MPT 330	with blocking comb	with half cage
Turnstile MPT 330 with powder coating in RAL7042	MPT330C-Z300	MPT330C-Z302
Turnstile MPT 330 with powder coating in RAL7016 or RAL6005	MPT330C-Z380	MPT330C-Z302
Turnstile MPT 330 with powder coating in special colour	MPT330C-Z300X	MPT330C-Z382
Turnstile MPT 330 with powder coating in RAL7042 with center in stainless steel V4A	MPT330C-Z340	MPT330C-Z302X
Turnstile MPT 330 with powder coating in RAL7016 or RAL6005 with center in stainless steel V4A	MPT330C-Z360	MPT330C-Z342
Turnstile MPT 330 with powder coating in special colour with center in stainless steel V4A	MPT330C-Z340X	MPT330C-Z362

Options and accessories for MPT turnstile

Article number	Product description
Lockings and locks	
EP100/EP101	Modification charge for entry/exit locked ¹
1031_5304	Locking for MPT 132 during voltage outage in one direction
1031_5305	Locking for MPT 132 during voltage outage in both directions
MAENT	Lock for mechanical unlocking for MPT 333 ^{2,3}
Illumination	
1031_5553	Illumination for MPT 30/333 ⁴ with twilight switch
1031_5624	Illumination for MPT 30/333 ⁴ without twilight switch
1031_5718	Illumination for MPT 132 ⁴ with twilight switch
1031_5723	Illumination for MPT 132 ⁴ without twilight switch

Roofs and rain drains

1008_5011	Pent roof with powder coating in standard colour RAL7042 ⁵
SL120	Powder coating of pent roof in special colour ⁶
1008_5136	Roof type A in galvanized steel ⁷
1031_5792	Rain drain for roof type A
SL121	Powder coating of roof type A in special colour ⁶
1008_5137	Roof type B in galvanized steel with rain drain ⁸
SL122	Powder coating of roof type B in special colour ⁶
1008_5138	Roof type C for 2 neighbored MPT in galvanized steel with rain drain ⁹
SL123	Powder coating of roof type C in special colour ⁶
1008_5139	Roof type D for a combination of MPT and MPG in galvanized steel with rain drain ⁹
SL124	Powder coating of roof type D in special colour ⁶

Options and accessories for MPT Drehkreuz

Article number	Product description
Add-on columns	
1045_5127	Add-on column in galvanized steel for mounting access control systems without mounting plate
1045_5132	Add-on column in galvanized steel for mounting access control systems with mounting plate
1045_5175	Add-on column in stainless steel ² for mounting access control systems without mounting plate
SL127	Powder coating for add-on column in special colour ⁶
3601_0016	Finary push button IP 65 for free exit
Foundation frame	
1031_5292	Foundation frame for MPT*3* without roof fixture ¹⁰
1031_5297	Foundation frame for MPT*3* with roof fixture ¹⁰
1031_5457	Foundation frame for MPT*3* with locking segment without roof fixture ¹⁰
1031_5489	Foundation frame for MPT*3* with locking segment with roof fixture ¹⁰

Spare parts

A comprehensive digital list of spare parts for perimeter protection is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

- ¹ Optionally for one or two directions.
- ² Only in combination with electro-mechanical device.
- ³ One required per direction.
- ⁴ Including 2 lights and mounting brackets.
- ⁵ 2000 x 2000 mm (length x width in direction of passage).
- ⁶ Powder-coating available in RAL7042 (standard), RAL6005 and RAL7016.
- ⁷ Inclination to the right or left.
- ⁸ Inclination forwards or backwards.
- ⁹ Inclination inwards to the right or outwards to the left.
- ¹⁰ For standard covering height of 150 mm from foundation.

MPT

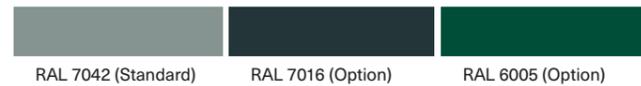
Double Turnstile

- > Space-saving double system for two independent passageways
- > Mechanical, electromechanical or motorized designs available
- > Sensitive impact detection for maximum safety
- > Numerous options, e.g. expansion for wheelchair access
- > Designed for 10 million opening and closing cycles



Technical data	MPT 152 3-wing	MPT 152 4-wing	MPT 353 3-wing	MPT 353 4-wing	MPT 350 3-wing	MPT 350 4-wing
Number of wings (angle)	3 (120°)	4 (90°)	3 (120°)	4 (90°)	3 (120°)	4 (90°)
Drive technology	MHTM™		electromechanical		mechanical	
Voltage	110 – 240 VAC, 50/60 Hz		110 – 240 VAC, 50/60 Hz		–	
Power consumption	approx. 50 W		approx. 50 W		–	
Duty cycle	100 %		100 %		–	
Enclosure rating	IP 43		IP 43		IP 43	
Dimensions (L x W x H)	2210 x 1318 x 2235 mm	2071 x 1382 x 2235 mm	2210 x 1318 x 2235 mm	2071 x 1382 x 2235 mm	2210 x 1318 x 2235 mm	2071 x 1382 x 2235 mm
Weight	approx. 450 kg					
Temperature range	–25 to +55 °C		–25 to +55 °C		–25 to +55 °C	

Standard colors and color options



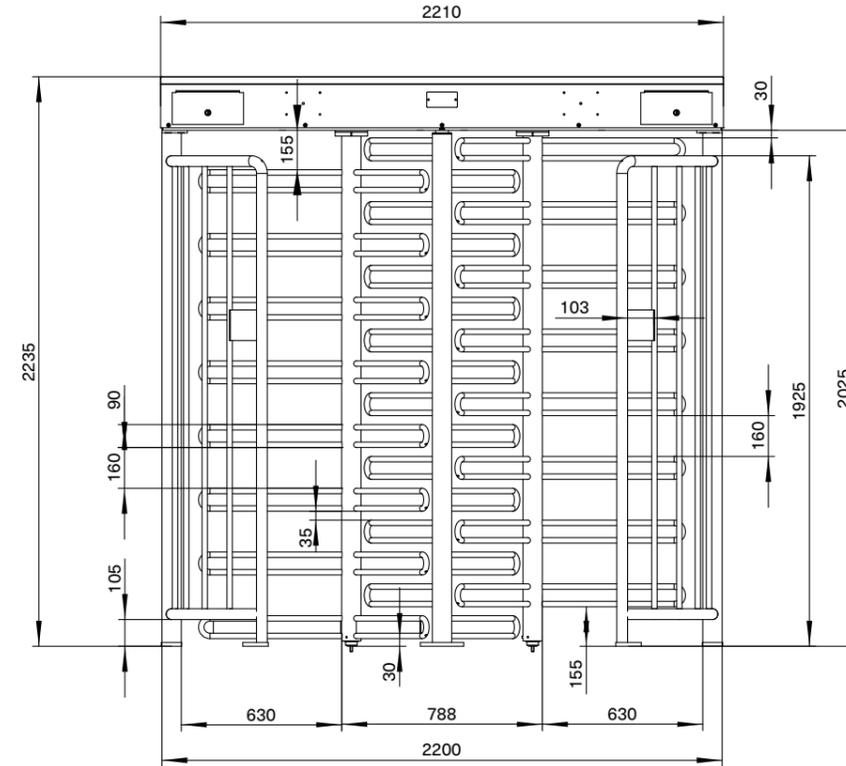
Special colours are also available on request and can be selected from the table of four-digit RAL colours.

Potential applications

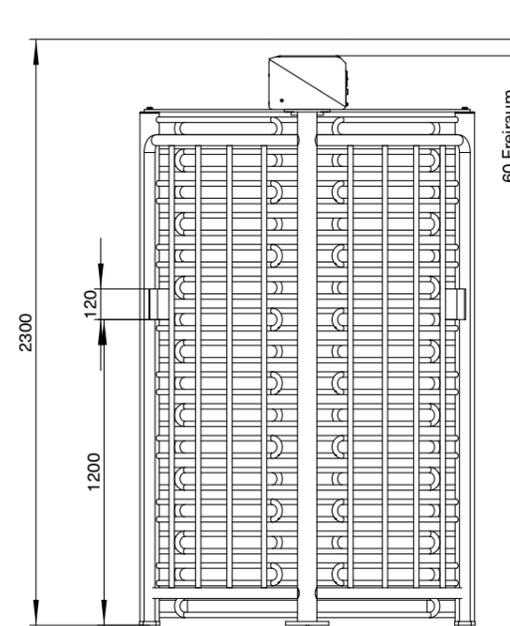


Dimensional drawings

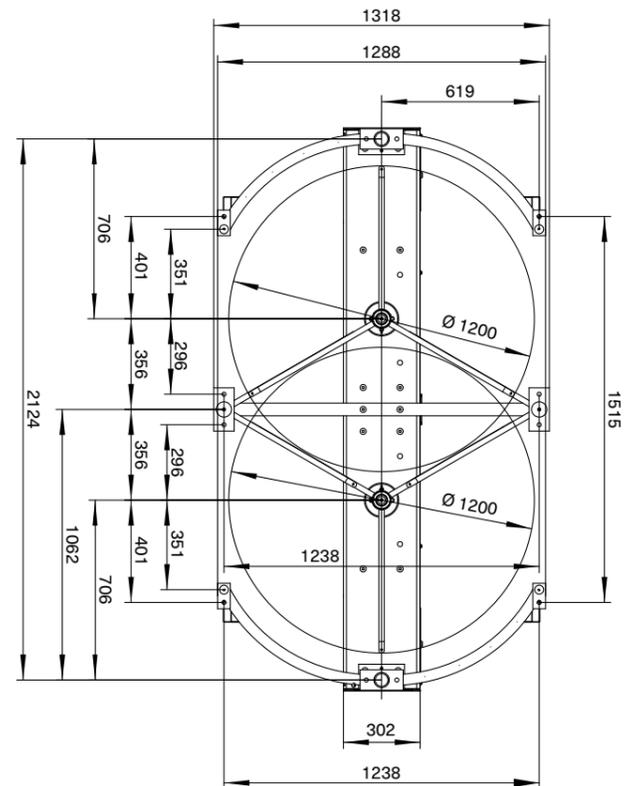
MPT 353 – 3-wing variants
Front view from inside



MPT 353 – 3-wing variants
Side view



MPT 353 – 3-wing variants
View from below



MPT

Double Turnstile



Products in basic configuration

Article number	Product description
Electro-motoric double turnstile MPT 152	
MPT152C-A300	Turnstile MPT 152 with powder coating in RAL7042
MPT152C-A380	Turnstile MPT 152 with powder coating in RAL7016 or RAL6005
MPT152C-A300X	Turnstile MPT 152 with powder coating in special colour
MPT152C-A340	Turnstile MPT 152 with powder coating in RAL7042 with center in stainless steel
MPT152C-A360	Turnstile MPT 152 with powder coating in RAL6005 or RAL7016 with center in stainless steel
Electro-mechanical double turnstile MPT 353	
MPT353C-A300	Turnstile MPT 353 with powder coating in RAL7042
MPT353C-A380	Turnstile MPT 353 with powder coating in RAL7016 or RAL6005
MPT353C-A300X	Turnstile MPT 353 with powder coating in special colour
MPT353C-A340	Turnstile MPT 353 with powder coating in RAL7042 with center in stainless steel
MPT353C-A360	Turnstile MPT 353 with powder coating in RAL6005 or RAL7016 with center in stainless steel

Products in basic configuration

Article number	Product description
Mechanical locked double turnstile MPT 350	
MPT350C-Z300	Turnstile MPT 350 with powder coating in RAL7042
MPT350C-Z380	Turnstile MPT 350 with powder coating in RAL7016 or RAL6005
MPT350C-Z300X	Turnstile MPT 350 with powder coating in special colour
MPT350C-Z340	Turnstile MPT 350 with powder coating in RAL7042 with center in stainless steel
MPT350C-Z360X	Turnstile MPT 350 with powder coating in RAL6005 or RAL7016 with center in stainless steel

Options and accessories for MPT double turnstile

Article number	Product description
Interlocks and locks	
EP100/EP101	Modification charge for entry/exit locked ^{1,2}
1031_5304	Locking for MPT 152 during voltage outage in one direction ³
1031_5305	Locking for MPT 152 during voltage outage in both directions ³
1031_5445	Lock for mechanical unlocking for MPT 353 ^{2,4}

Illumination

1031_5552	Illumination for MPT 50/353 ⁵ with twilight switch
1031_5628	Illumination for MPT 50/353 ⁵ without twilight switch
1031_6188	Illumination for MPT 152 ⁵ with twilight switch
1031_6189	Illumination for MPT 152 ⁵ without twilight switch

Roofs and rain drains

1008_5012	Pent roof with powder coating in standard colour RAL7042 ⁶
SL125	Powder coating of pent roof in special colour ⁷
1008_5140	Roof type E in galvanized steel with rain drain ⁸
SL126	Powder coating for roof type E in special colour ⁷

Add-on columns

1045_5127	Add-on column in galvanized steel for mounting access control systems without mounting plate
1045_5132	Add-on column in galvanized steel for mounting access control systems with mounting plate
1045_5175	Add-on column in stainless steel ² for mounting access control systems without mounting plate
SL127	Powder coating for add-on column in special colour ⁷
3601_0016	Finary push button IP 65 for free exit

Options and accessories for MPT double turnstile

Article number	Product description
Foundation frame	
1031_5292	Foundation frame for MPT*5* without roof fixture ⁹
1031_5297	Foundation frame for MPT*5* with roof fixture ⁹

Spare parts

A comprehensive digital list of spare parts for perimeter protection is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

- ¹ Optionally for one to four directions.
- ² One required per direction.
- ³ For one turnstile each.
- ⁴ Only in combination with electro-mechanical device.
- ⁵ Including 4 lights and mounting bracket.
- ⁶ 2910 x 2000 mm (length x width in direction of passage).
- ⁷ Powder coating available in RAL 7042 (standard), RAL 6005 and RAL 7016.
- ⁸ Drain inside right or outside left.
- ⁹ For standard covering height of 150 mm from foundation to base.

MPG

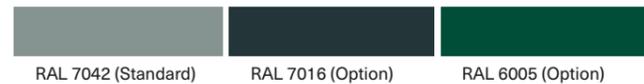
Wheelchair-Accessible Swing Gate

- > Controlled access for cyclists and wheelchair users
- > Sensitive impact detection for maximum safety
- > Induction loop detector for detection of bicycles and wheelchairs (optional)
- > Low power consumption thanks to maintenance-free MHTM™ drive
- > Designed for 10 million opening and closing cycles



Technical data	MPG 162	MPG 172
Installation	in combination with turnstile system	free-standing
Drive technology	MHTM™	MHTM™
Voltage	110 – 240 VAC, 50/60 Hz	110 – 240 VAC, 50/60 Hz
Power consumption	85 W (incl. interlock)	85 W (incl. interlock)
Duty cycle	100 %	100 %
Opening/closing times	approx. 3 s	approx. 3 s
Passage width	1087 mm	1070 mm
Enclosure rating	IP 43	IP 43
Dimensions (L x W x H)	1451 x 500 (excl. guide bar) x 2235 mm	1623 x 500 (excl. guide bar) x 2235 mm
Weight	approx. 220 kg	approx. 250 kg
Temperature range	-25 to +50 °C	-25 to +50 °C

Standard colors and color options



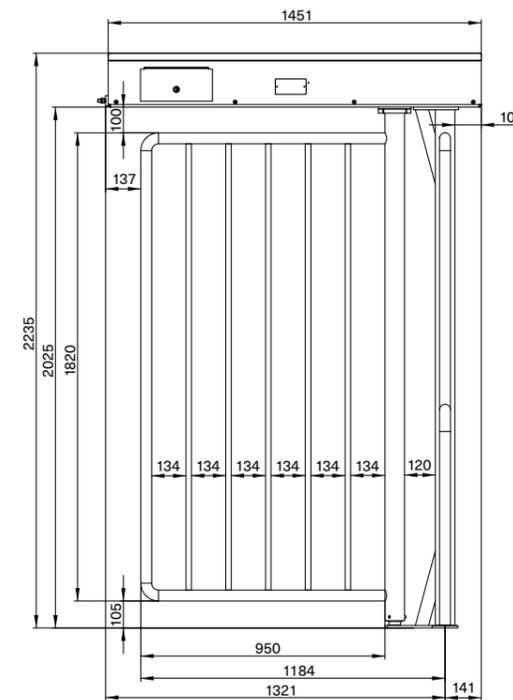
Special colours are also available on request and can be selected from the table of four-digit RAL colours.

Potential applications

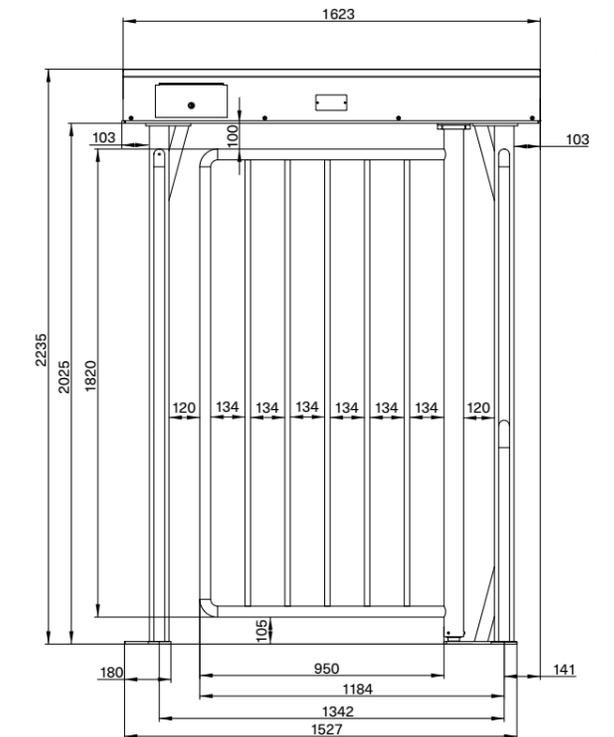


Dimensional drawings

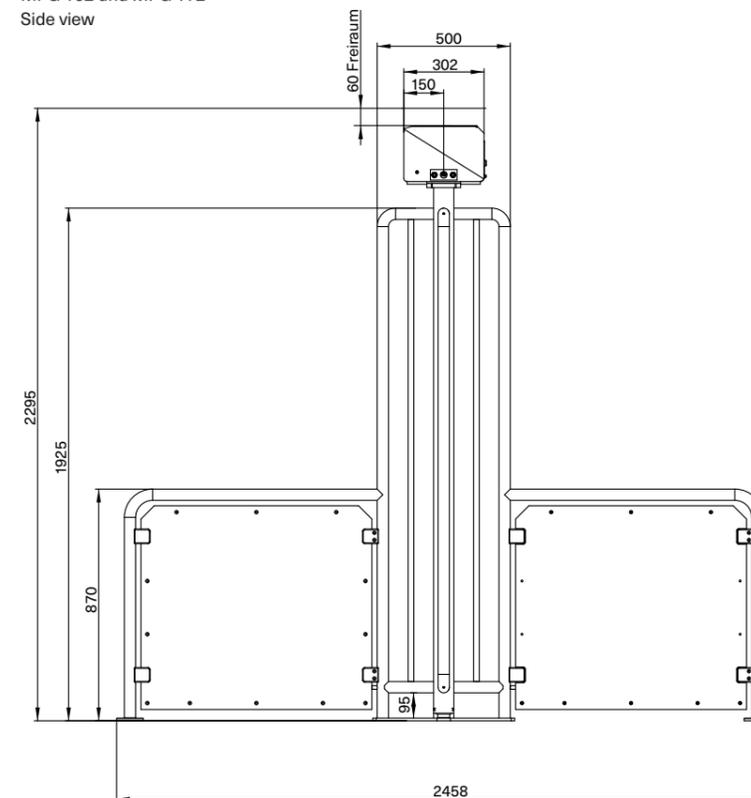
MPG 162
Front view from inside



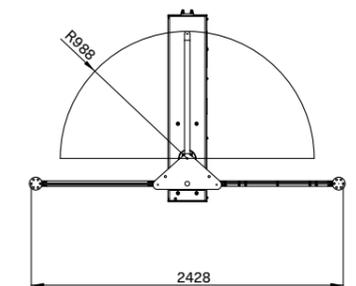
MPG 172
Front view from inside



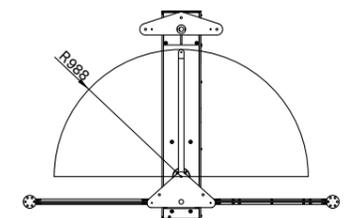
MPG 162 und MPG 172
Side view



MPG 162
View from below



MPG 172
View from below



MPG

Swing gate for barrier-free access



Products in basic configuration

Article number	Product description
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Swing gate MPG 162

MPG-162C-A100	Swing gate MPG 162 ¹ with powder coating in RAL 7042
MPG-162C-A140	Swing gate MPG 162 ¹ with powder coating in RAL 7042 with gate in stainless steel

Swing gate MPG 172

MPG-172C-A100	Swing gate MPG 172 ² with powder coating in RAL 7042
MPG-172C-A140	Swing gate MPG 172 ² with powder coating in RAL 7042 with gate in stainless steel

Options and accessories für MPG Swing gate

Article number	Product description
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Powder coating in special colours

SL116	Powder coating MPG-162C-A100 in special colour ³
SL117	Powder coating MPG-162C-A140 in special colour ³
SL116	Powder coating MPG-172C-A100 in special colour ³
SL117	Powder coating MPG-172C-A140 in special colour ³

Lockings⁴

1031_5343	Locking, normally locked
1031_5342	Locking, normally free floating

Illumination

1031_5727	Illumination for MPG 162 ⁵ and MPT *3* with twilight switch
1031_5717	Illumination for MPG 162 ⁵ and MPT *3* without twilight switch
1031_6187	Illumination for MPG 172 ⁶ with twilight switch
1031_6133	Illumination for MPG 172 ⁶ without twilight switch

Roofs and rain drains

1008_5050	Pent roof for MPG162 with powder coating in standard colour RAL7042 ⁷
SL128	Powder coating of pent roof 1008,5050 in special colour ³
1008_5053	Pent roof for MPG172 with powder coating in standard colour RAL7042
SL129	Powder coating of pent roof 1008,5050 in special colour ³
1008_5139	Roof type D for a combination of MPT and MPG 162 in galvanized steel with rain drain ⁹
SL124	Powder coating of roof type D in special colour ³

Foundation frame

1031_5376	Foundation frame for MPG 162 without induction loop ¹⁰
1031_5371	Foundation frame for MPG 162 with 2 induction loops ¹⁰
1031_5378	Foundation frame for MPG 162 without roof fixture and without induction loop ¹⁰
1031_5257	Foundation frame for MPG 162 with roof fixture and with 2 induction loops ¹⁰
1031_5373	Foundation frame for MPG 172 without induction loops ¹⁰
1031_5380	Foundation frame for MPG 172 with 2 induction loops ¹⁰
1031_5381	Foundation frame for MPG 172 without roof fixture and without induction loops ¹⁰
1031_5283	Foundation frame for MPG 172 with roof fixture and with 2 induction loops ¹⁰

Options and accessories for MPG Swing gate

Article number	Product description
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Additional SPS controller

MPG-162C-A103G	Additional SPS controller and 2 induction loops for MPG-162C-A100 ¹¹
MPG-162C-A143G	Additional SPS controller and 2 induction loops for MPG-162C-A140 ¹¹

Spare parts

A comprehensive digital list of spare parts for perimeter protection is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

¹ In combination with the MPT modular turnstile.

² As single door.

³ Powder coating available in RAL 7042 (standard), RAL 6005 and RAL 7016.

⁴ Locking included in the scope of delivery. Please specify version when ordering.

⁵ Including 4 lights and mounting brackets.

⁶ Including 2 lights and mounting brackets.

⁷ 3451 x 2634 mm (length x width in direction of passage).

⁸ 2000 x 2634 mm (length x width in direction of passage).

⁹ Inclination inwards to the right or outwards to the left.

¹⁰ For standard covering height of 150 mm from foundation to base.

¹¹ For bicycle or wheelchair recognition via induction loop in the frame.

MPB

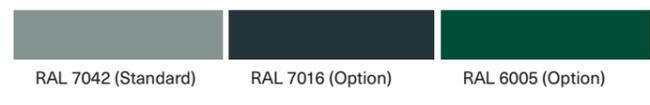
Turnstile with bicycle gate

- > Simultaneous access for bike and rider
- > Sensitive contact detection for maximum safety
- > Maximum comfort through adaptive rotary speed
- > Bicycle detection via induction loop
- > Low power consumption due to maintenance-free MHTM™ drive (optionally available for the turnstile)
- > Designed for 10 million opening and closing cycles



Technical data	MPB 111	MPB 112
Technology: turnstile/hinged gate	electromechanical/motor-driven	motor-driven/motor-driven
Voltage	110 – 240 VAC, 50/60 Hz	110 – 240 VAC, 50/60 Hz
Power consumption	approx. 85 W	approx. 60 W
Duty cycle	100 %	100 %
Enclosure rating	IP 43	IP 43
Dimensions (L x W x H)	2500 x 2458 x 2235 mm	2500 x 2458 x 2235 mm
Weight	approx. 480 kg	approx. 480 kg
Temperature range	-25 to +55 °C	-25 to +55 °C

Standard colors and color options



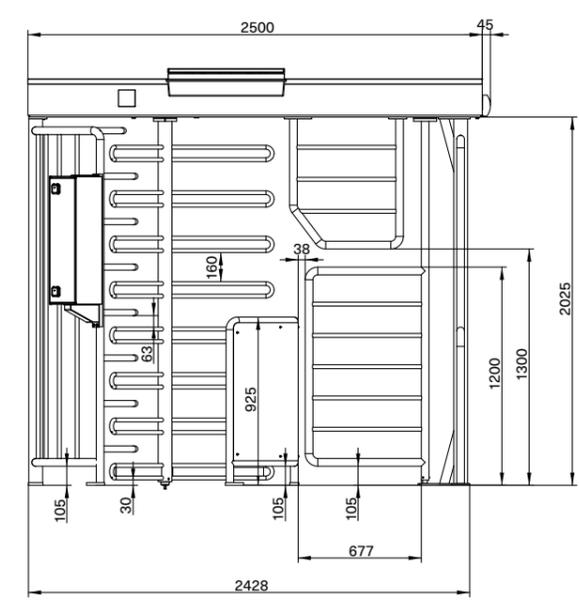
Special colours are also available on request and can be selected from the table of four-digit RAL colours.

Potential applications

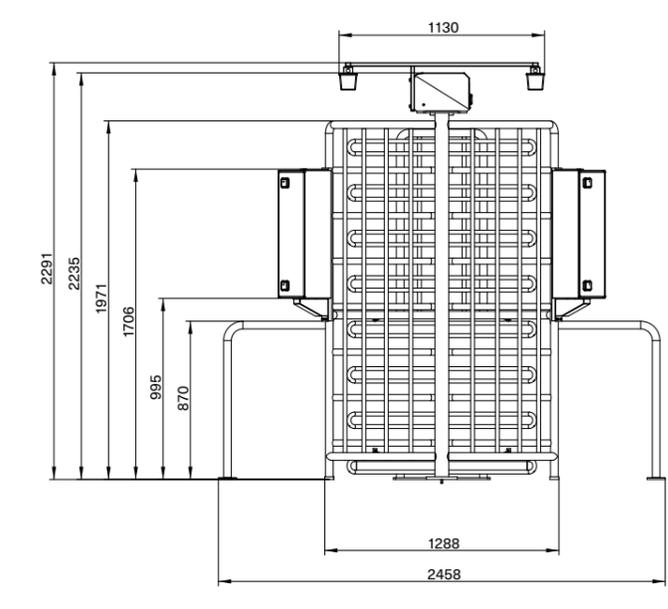


Dimensional drawings

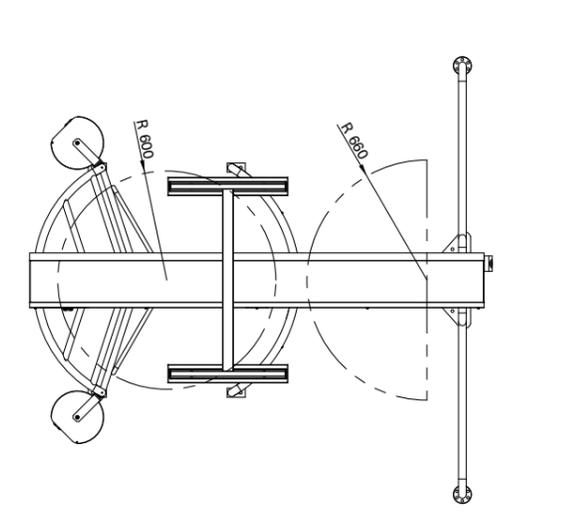
Front view from outside
Variant: turnstile on right



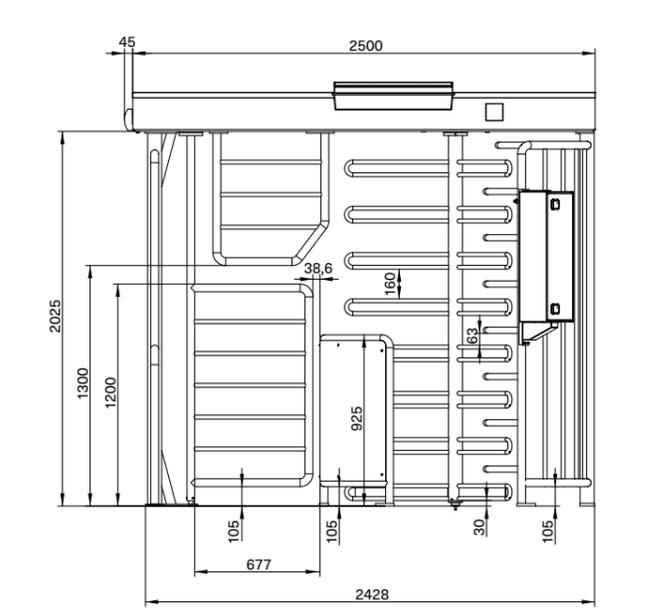
Side view



View from above



Front view from outside
Variant: turnstile on left



Perimeter protection

MPB

Turnstile with bicycle gate



Products in basic configuration

Product description	Article number	Article number
Turnstile with bicycle gate - electro-mechanical turnstile, electro-motoric gate – MPB111	Passageway left	Passageway right
Turnstile with bicycle gate with powder coating	MPB111AA101	MPB111BA101
Turnstile with bicycle gate with powder coating and 2 x GED ¹	MPB111AA10100001	MPB111BA10100001
Turnstile with bicycle gate with powder coating for semi-cylinder	MPB111AA10100010	MPB111BA10100010
Turnstile with bicycle gate with powder coating for semi-cylinder and 2 x GED ¹	MPB111AA10100011	MPB111BA10100011
Turnstile with bicycle gate with powder coating and center in stainless steel	MPB111AA141	MPB111BA141
Turnstile with bicycle gate with powder coating and center in stainless steel and 2 x GED ¹	MPB111AA14100001	MPB111BA14100001
Turnstile with bicycle gate with powder coating and center in stainless steel for semi-cylinder	MPB111AA14100010	MPB111BA14100010
Turnstile with bicycle gate with powder coating and center in stainless steel for semi-cylinder with 2 x GED ¹	MPB111AA14100011	MPB111BA14100011

Products in basic configuration

Product description	Article number	Article number
Turnstile with bicycle gate – electro-motoric turnstile, electro-motoric gate – MPB112	Passageway left	Passageway right
Turnstile with bicycle gate with powder coating	MPB112AA101	MPB112BA101
Turnstile with bicycle gate with powder coating and 2 x GED ¹	MPB112AA10100001	MPB112BA10100001
Turnstile with bicycle gate with powder coating for semi-cylinder	MPB112AA10100010	MPB112BA10100010
Turnstile with bicycle gate with powder coating for semi-cylinder and 2 x GED ¹	MPB112AA10100011	MPB112BA10100011
Turnstile with bicycle gate with powder coating and center in stainless steel	MPB112AA141	MPB112BA141
Turnstile with bicycle gate with powder coating and center in stainless steel and 2 x GED ¹	MPB112AA14100001	MPB112BA14100001
Turnstile with bicycle gate with powder coating and center in stainless steel for semi-cylinder	MPB112AA14100010	MPB112BA14100010
Turnstile with bicycle gate with powder coating and center in stainless steel for semi-cylinder with 2 x GED ¹	MPB112AA14100011	MPB112BA14100011

Options and accessories for MPB turnstile

Article number	Product description
Powder coating in special colours	
SL118	Powder coating MPB in special colour ²
Lockings and locks	
VRE	Locking for MPB 111 during voltage outage
MAENT	Lock for mechanical unlocking for VRE
VRM1	Locking for MPB 112 during voltage outage in one direction
VRM2	Locking for MPB 112 during voltage outage in both directions

Illumination

BELEDDS	Illumination for MPB 111 ³
BMLEDDS	Illumination for MPB 112 ³

Add-on column

ASMP	Add-on column with powder coating
ASMPX	Powder coating for add-on column ASMP in special colour ²
ASMPPHZ	Powder coating in special colour for semi-cylinder
ASMPPHZX	Powder coating for add-on column ASMPPHZ in special colour ²
VBSET	Connection set A/B module for joint power supply

Foundation frame

MPBFR1	Foundation frame MPB for single passageway
MPBBS	Mounting material for MPB with foundation frame
MPBFR2	Foundation frame MPB for double passageway ⁴
MPBBSOF	Mounting material for MPB without foundation frame

Spare parts

A comprehensive digital list of spare parts for perimeter protection is available. If necessary, please request this via e-mail to cs@ac-magnetic.com

- ¹ GED = Gate End Display.
- ² Powder coating available in RAL 7042 (standard), RAL 6005 and RAL 7016.
- ³ Including 2 lights and mounting bracket in RAL 7042.
- ⁴ 2 x MPBBS mounting sets are required.

Segment solutions

For customised applications

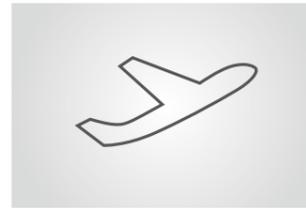


Segment-specific products and individual developments

High security at airports, quick processing for public transport, permanent operational readiness at toll stations and high-quality design for companies – every segment has its own special requirements for access control. We understand the challenges and offer our customers tailor-made solutions:

- › An important part of our range are segment-specific products that have been developed to precisely meet the requirements of the individual markets. This includes special barriers for parking and toll applications and pedestrian gates in the FlowMotion® model series that are designed for use in companies and public buildings.
- › In many cases – above all for airports and public transport – a customised development is the quickest way to appropriately take account of the special characteristics of the specific application, country-specific regulations and wishes of the customer. In our development department at our headquarters in Schopfheim, experts in each segment create tailor-made solutions to fulfil all of the requirements with respect to function, design and conformity.
- › All of our barriers and pedestrian gates have one thing in common: our long-standing experience in the area of drive and control technology. As a result, we can guarantee our customers highly responsive sensor technology, energy-efficient operation and an especially long service life.

Further information on our segment solutions and our product development services is available on our website www.magnetic-access.com and from our Customer Service Department on cs@ac-magnetic.com.



Airports

Boarding gates, immigration gates, turnstiles and vehicle barriers increase the level of security, speed up processes and reduce costs – at all stages of the process for passengers from arriving at the airport and checking in through to boarding.

More information on our airport solutions can be found on our dedicated page for this segment



www.magnetic-access.com/airports



Public transport

Pedestrian barriers with clear guidance of the user, especially quick opening times and adaptable security levels enable reliable and quick automated checking of tickets even at peak times.

More information on our airport solutions can be found on our dedicated page for this segment:



www.magnetic-access.com/transport



Toll

The Toll barriers offer particularly quick opening and closing speeds, easy accessibility and numerous boom breakaway options for the fast and cost-effective processing of vehicles.

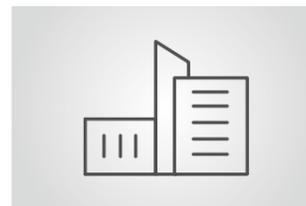
To the Toll barriers > [page 30](#)
To the Access barriers > [page 4](#)



Parking

Thanks to their particularly quick opening times, comprehensive sensor technology and low power consumption, the Parking Pro barrier ensures particularly economical operation and enables vehicles to enter and exit quickly.

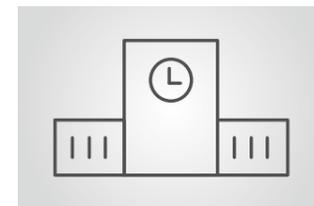
To the Parking-Pro barrier > [page 26](#)
To the Access barriers > [page 4](#)



Trade and industry

Our pedestrian barriers in the FlowMotion® model series increase the security level and also transform entrance areas into brand worlds at the same time. Our vehicle barriers and turnstiles ensure clear guidance of the traffic and reliable security in outdoor areas.

To the FlowMotion® pedestrian barriers > [page 62](#)
To the Access barriers > [page 4](#)

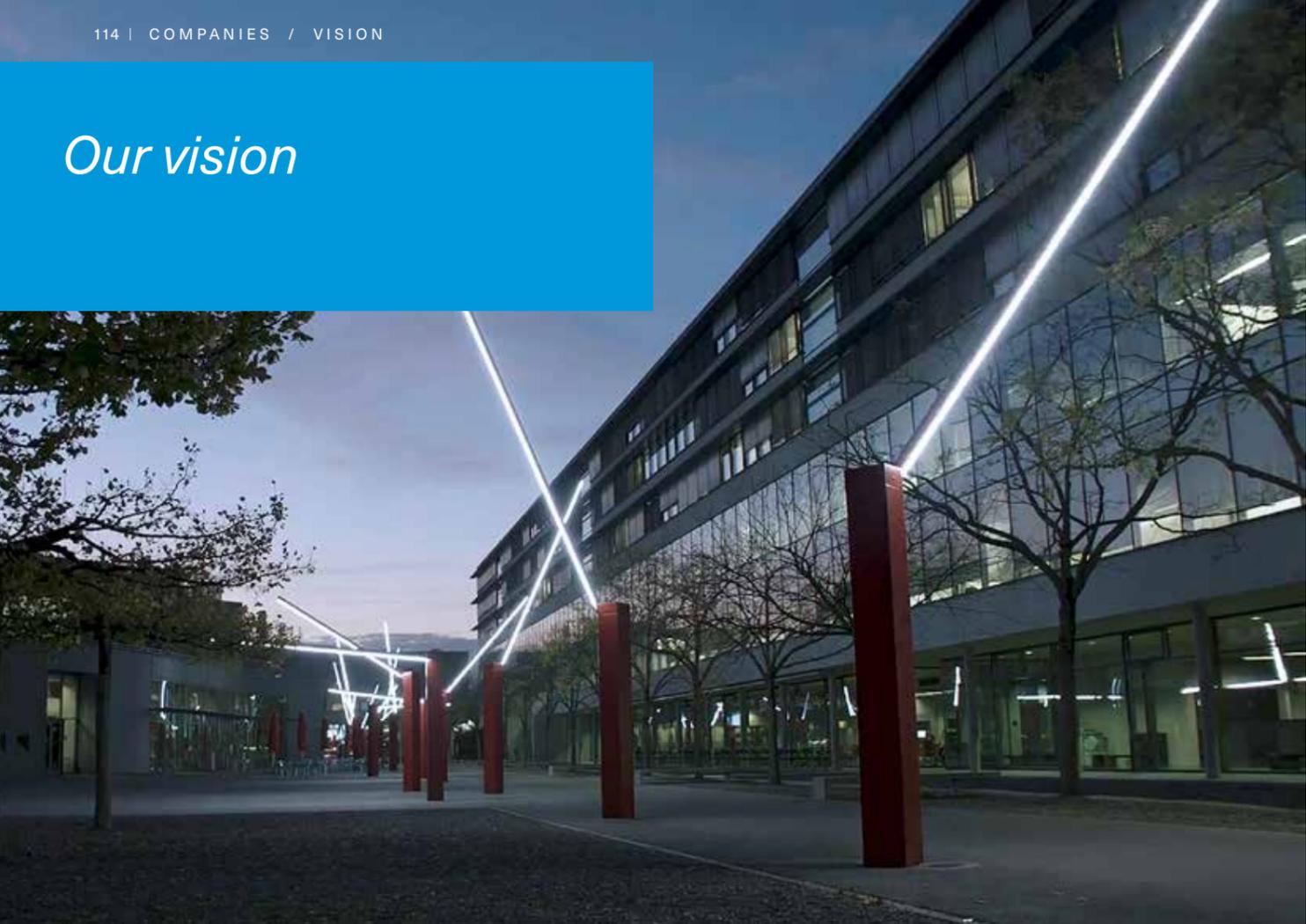


Public buildings

Our pedestrian barriers in the FlowMotion® model series easily control employees and visitors in passing, while our turnstiles and vehicle barriers efficiently control pedestrian and vehicle traffic.

To the FlowMotion® pedestrian barriers > [page 62](#)
To the Access barriers > [page 4](#)
To the turnstiles > [page 94](#)

Our vision



“ We open worlds – offering highly integrated solutions as the basis for safe and reliable access management for vehicles and persons. ”

Continuous development

600

employees worldwide

14

subsidiaries worldwide

>500,000

barriers installed worldwide, of which more than 100,000 are from the current MHTM™ MicroDrive generation

8%

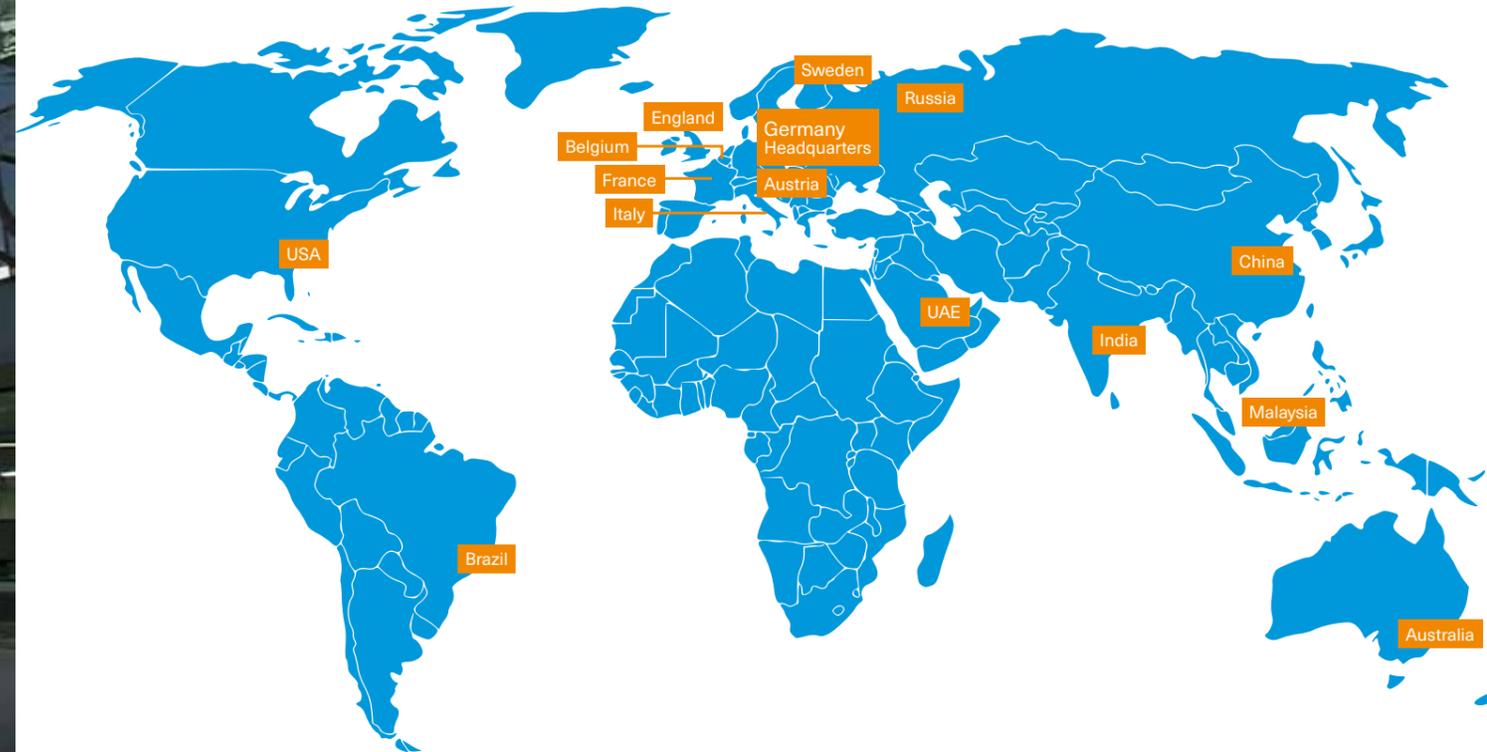
annual growth during the past 20 years

MAGNETIC AUTOCONTROL GMBH
www.magnetic-access.com

Always close to you

Our home is in the Black Forest, but we are at home all over the world. We are represented worldwide with a vast network of sales subsidiaries and sales partners. As a result, we are

not only experts on the special aspects of numerous regional markets, but are also always available to our customers personally.



A strong alliance

As the Access Control Division, we have been part of the internationally active FAAC Group since 2012. This also benefits our customers: with an extensive sales network and a considerably

wider product range offered from a single source. This includes sliding doors and gate drives, as well as high security bollards and parking management systems.



Access Automation

FAAC develops and produces automation solutions for vehicle and pedestrian access, as well as sunshade and sunblind systems for residential buildings, hotels and business premises.



Access Control

Magnetic Autocontrol stands for trail-blazing vehicle barriers and pedestrian gates for parking, public transport, airports, toll stations, buildings, business and industry.



Parking

HUB Parking Technology develops smart and flexible parking management solutions for car parks and parking spaces in residential areas, in business, at airports and trade fairs, as well as at hotels and hospitals.

Our mission

How we achieve our objectives.



“We remain the benchmark in innovation, quality and reliability – designing outstanding solutions that add value to our customers' business.”

We do not produce single vehicle or pedestrian barriers. We develop technologies that set standards regarding function, efficiency and reliability, shaping a growing market with trail-blazing product innovations.

We take our customers the decisive step farther – which is why our motto is 'Access to Progress'. In order to achieve this, we continuously develop our competences in the following core areas:

Unique innovative power



We break new ground: we drive the sector's development forward with more than 20 patents, registered patterns, industrial patterns and design patterns – for example with the MHTM™ drive unit and with the FlowMotion® housing material mDure.

Detailed segment knowledge



We know what we are doing: with our sector specialists and many years of collaboration with our customers we know exactly what individual sectors require from their access control systems.

Consistent further education and training



We believe that our products are only as good as the people that you deal with as consultants, technicians or sales partners. Regular training at our Magnetic Academy is therefore mandatory.

Extremely powerful drive and control technology



All our products are based on the same technology: this reduces system variation for our service partners, and our customers can always rely on perfected technology that has been tested hundreds of thousands of times.

Award-winning design



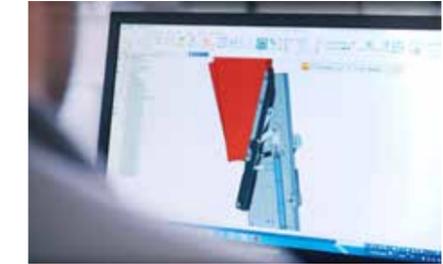
We value colour and styling: ultimately, visitors and employees interact with our products every day. Our success in this is also confirmed by independent observers.

Conformity with legal requirements worldwide



We value the safety of users: so our vehicle barriers and pedestrian barriers meet legal regulations and technical guidelines worldwide.

Outstanding product development



Our development is customised: we develop the hardware and software for new products and for precise customer-specific solutions in our research department.

Complete documentation



We leave no question unanswered: our products are not only accompanied by informative brochures and data sheets, but also by all necessary planning documentation.

Contact

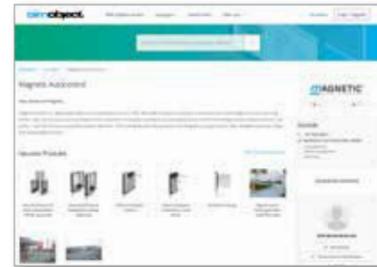
Always reachable personally
and digitally



www.magnetic-access.com



www.flowmotion-access.com



[www.bimobject.com/
magnetic-autocontrol](http://www.bimobject.com/magnetic-autocontrol)



[www.linkedin.com/company/
magnetic-access](http://www.linkedin.com/company/magnetic-access)



www.youtube.com >
Magnetic Autocontrol GmbH

The right answer for every question

Our vehicle barriers and pedestrian gates are of interest to a very wide range of user groups. So we maintain numerous channels where our customers can obtain any information they want rapidly and reliably. The first point of contact is naturally our website, which consolidates all the information on our products and our company. There is also a landing page for FlowMotion® where our new series of pedestrian gates can be experienced in action.

Architects and planners can directly integrate our products into their digital tools via BIMobject®, while those who want to keep up to speed about our company, trade fair appearances and films can do this most simply via LinkedIn and YouTube.

MAGNETIC AUTOCONTROL GMBH
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E-Mail: info@ac-magnetic.com

Access BIMobject®

Plan with barriers and pedestrian gates
from Magnetic!



Those who plan, build or manage buildings and facilities can profit enormously from precise digitally modelled data. This not only allows a structure to be realistically visualised, but also more efficiently planned and operated.

BIM objects for the buildings of the future

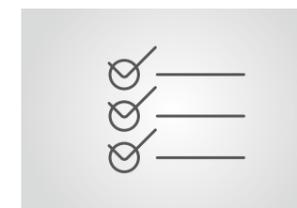
This is why increasing numbers of architects, engineers and project developers use Building Information Modelling, or BIM for short. The planning, construction and management of buildings and facilities can be optimised with the help of software using this structural data modelling. Whereby all relevant structural data (3D data, specifications and tender documents) are digitally modelled, combined and logged so that the building can also be represented three-dimensionally. Architects, developers and works planners can collaborate in a goal-oriented and efficient manner because everyone involved in a project uses the same planning documentation.

Integrate BIM objects from Magnetic free-of-charge

Magnetic provides you with numerous products in the form of BIM objects. You will find Magnetic's Access barriers and the pedestrian gates of the FlowMotion® series – in the 10 most common planning formats, with 3D visualisations and product specifications in seven languages – on bimobject.com, the world's leading BIM content platform. Updated data are always available for you to download free-of-charge.

You too can profit from Magnetic and bimobject.com

- > Visual integration of barriers and pedestrian gates from Magnetic into the architectural and perimeter design
- > Simple preparation of tenders and specifications
- > Simple preparation of planning documentation, and optimised implementation planning
- > Greater security for buildings during each construction and operation phase



BIM objects considerably simplify working with buildings – during planning, tendering and implementation, as well as during service provision and facility management.