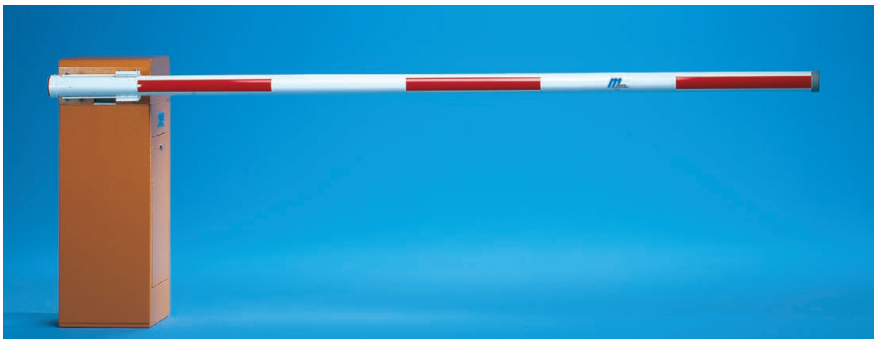
Info



Barriers MAGSTOP (toll road barriers)

MIB 10 / MIB 20

Technical data:	Unit	MIB 10	MIB 20
Maximum boom length	mm		
Aluminium octagonal profile	100 x 55 x 1.6 mm	2500	2500
Aluminium round profile	Ø 75 x 1.4 mm	3000	3000
Opening and closing times	s	adjustable 0.6 – 3.0	0.9
Voltage	V	230/115	230/115
Frequency	Hz	50 – 60	50 – 60
Power consumption	max. W	400	240
Housing: width	mm	350	350
Depth	mm	350	350
Height	mm	1010	1010
Weight not including barrier boom	kg	50	50
Drive		DC motor	Torque motor

Technical Description

The combination of our proven and reliable electric motor with a lever system represents a simple and extremely reliable drive solution. It permits short opening and closing durations without the barrier boom bouncing in the end positions. The lever system locks the barrier boom at both end positions. In the event of a power failure, it can still be moved easily by hand.
The complete drive system is attached to the barrier housing as a single unit, and can easily be removed from the housing by removing the mounting screws.
A built-in spring mechanism provides a precise counterbalance for the barrier boom. The springs are factory set to correspond with the boom length prior to delivery. If necessary, the springs can be easily reset in situ during assembly, for example if the barrier boom is shortened or if signs are attached to the boom.
It is also a simple matter to change the handing on-site from right-axial to left-axial.

The Drive Unit

The two barriers MIB 10 and MIB 20 differ in the type of motor drive they are fitted with.
In the end positions, the motor remains with voltage applied but at reduced power. This power is dissipated in the form of heat, which prevents the occurrence of condensation and corrosion. This guarantees consistent opening and closing times, even in cold climatic conditions.

MIB 10

The heart of the barrier is the combination of the brushless maintenance free direct current motor with its intelligent control mechanism. This combination, developed especially for this application, represents a substantial technological leap forward due to its flexible acceleration and deceleration and its independently adjustable opening and closing times. This further optimises the movements achieving considerable service life with long maintenance-free intervals.
Hall sensors integrated into the motor provide precise data regarding the position of the barrier boom at any particular instant, and they also provide the control system with a way of verifying the optimum acceleration and braking characteristics.
By calculating the exact position of the boom, it is possible to make feedback directly available in any position in the form of zero potential signals. This removes the need for mechanical limit switches which are prone to wear and tear.

MIB 20

The heart of this barrier is the special AC torque motor. The features of this motor are its long service life, freedom from maintenance, and the fact that it is possible to stall it in any position without risk of damage. Imprecise friction clutches and limit switches are not necessary. The position sensor sends precise data concerning the position of the barrier boom to the control unit. The optimum brake position of the barrier boom is always guaranteed as a result of the control mechanism developed by Magnetic. The control mechanism is equipped with self-learning software which prevents any subsequent bounce of the barrier boom. The barrier is factory wired and ready to connect, tested and supplied with mounting accessories.

The Housing

The high-quality and robust housing is manufactured from 2 mm zinc phosphated sheet steel then powder coat finished in RAL 2000 (orange) not bleaching and not harmful to the environment.
Control units are mounted onto a removable zinc plated sheet steel panel. All of the components within the barrier housing are readily accessible through the maintenance door and removable top cover.

Info number: MF 5123/E
Subject to technical modifications.

Magnetic Autocontrol GmbH
Grienmatt 20
D-79650 Schopfheim
Phone: +49 7622 695-5
Fax: +49 7622 695-602
e-mail: info@ac-magnetic.com
http://www.ac-magnetic.com

580E, 5123/2/09.08

Available Versions

Barriers may be supplied with the barrier boom fitted to either the right or left hand side. In its standard configuration the maintenance access door is positioned at the rear, although on request it can be any one of the other sides.

The Round Barrier Boom MSB 4

The round boom is made of highly stable aluminium Ø 74 mm x 1.4 mm profile, and finished with an RAL 9010 white powder coat then applied with bright red reflective tape strips.

The Octagonal Barrier Boom MSB 5

This boom is extruded from highly stable aluminium alloy to produce an octagonal profile of 100 mm x 55 mm x 1.6 mm and finished with an RAL 9010 white powder coat then applied with bright red reflective tape strips.

The Control Device

Both the MIB 10 and MIB 20 barriers may only be operated in conjunction with the respective MLC controllers especially developed by Magnetic. Refer to the applicable MF data sheets for relevant details in each case.

Safety

The following safety instructions are to be observed for installation and operation of the barriers:

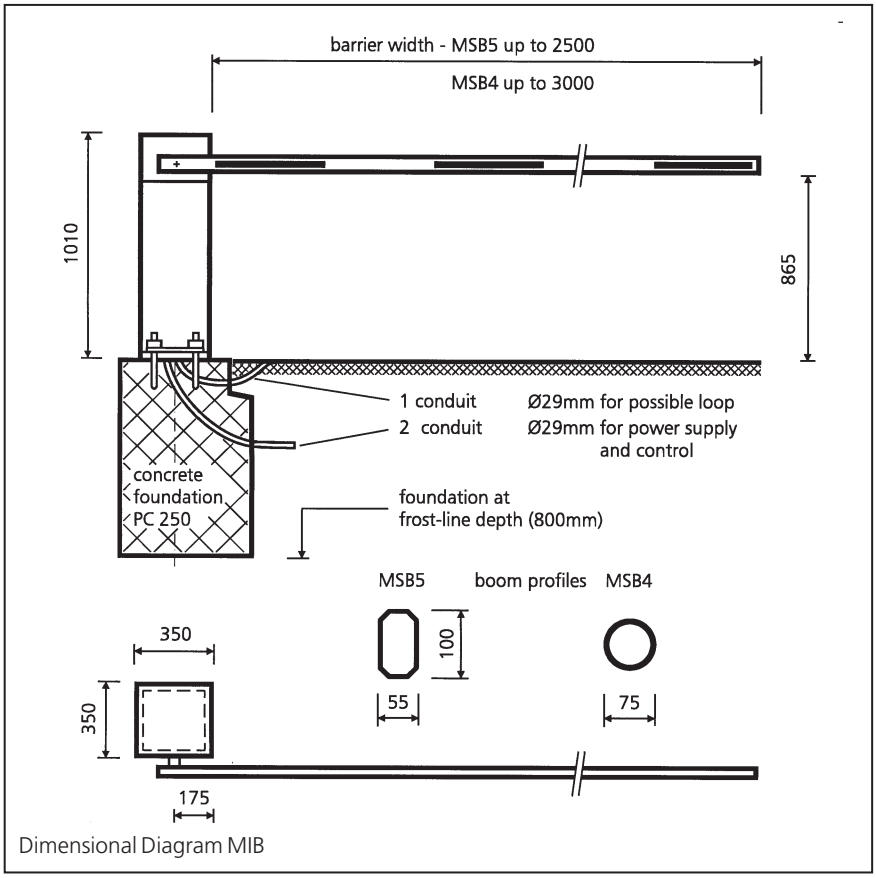
1. The foundation must be produced in accordance with Magnetic data sheet MF 5115.

2. The minimum required distance between the end of the barrier boom and the nearest building (or wall etc.) is 500 mm.

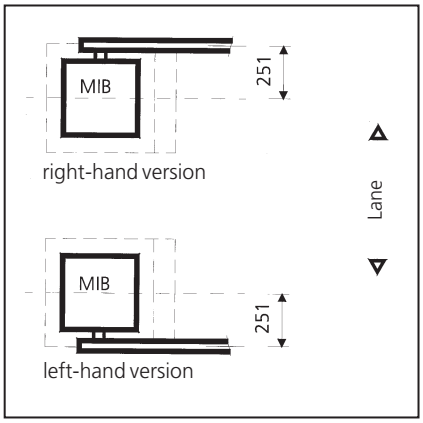
3. It is forbidden for persons or goods to be anywhere within the swing zone of the barrier boom while it is in operation.

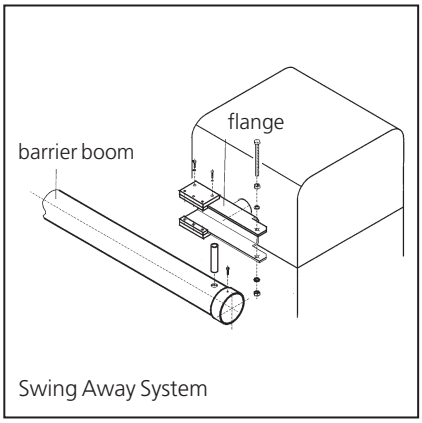
4. The closing and opening actions must be observed. The mounting of operating elements outside the field of view is not permissible; there must be a line of visibility between the barrier and the control system.

6. The barrier boom fixture can withstand winds of up to a maximum of force 10 on the Beaufort scale (=500 N/m²).



Dimensional Diagram MIB





Swing Away System

The Electrical Connection

Electrical connections are carried out in accordance with factory circuit diagrams. Our control devices may necessitate the application of special connection diagrams for certain configurations. This can be supplied by us on request.

Magnetic Automation Corp.
3160 Murrell Road
Rockledge, FL 32955, USA
Phone: +1 321 635 8585
Fax: +1 321 635 9449
eMail: info@magnetic-usa.com

Magnetic Automation Pty. Ltd.
14 A Tullamarine Park Road
Tullamarine, VIC 3043, Australia
Phone: +61 39 339 2900
Fax: +61 39 339 2999
eMail: info@magnetic-oz.com

Magnetic Control Systems
(Shanghai) Co. Ltd.
999 Ning-qiao Road, Bldg. 2W/1F
Pudong New Area
Shanghai 201206, China
Phone: +86 21 58 34 17 17
eMail: china@ac-magnetic.com

Magnetic Control Systems Sdn.Bhd.
No.17, Jalan Anggerik Mokara 31/54
Kota Kemuning, 40460 Shah Alam
Selangor Darul Ehsan, Malaysia
Phone: +60 3 5123 0033
Fax: +60 3 5124 0500
eMail: my@magnetic.com

Magnetic Autocontrol Pvt. Ltd.
"Sree Krishna Leela"
Apt.3, I Floor, II Main Road, R A Puram
Chennai- 600 028, India
Phone: + 91 44 42111222
Fax: + 91 44 42111221
eMail: info@magneticindia.com