



**FAAC**  
*Simply automatic.*

# ACCESS CONTROL

**ACCESS CONTROL SYSTEMS  
TURNSTILES AND RETRACTABLE GATES**







# FAAC

*Simply automatic.*

Access Control Systems  
Turnstiles and retractable  
gates



# FAAC: THE TECHNOLOGY THAT SURROUNDS YOU

Innovation, the ability to push ourselves beyond established practice, the courage to cross frontiers and open up many more: these are the values that have inspired FAAC throughout its history.

FAAC was founded in Zola Predosa (Bo) Italy in 1965 and right from the very beginning became synonymous with automation systems for gates due to innovation and the quality and the reliability of its products.

Today, after having filed 40 patents for its own design solutions, FAAC has achieved unparalleled international success and has considerably expanded its product range: not only have the residential solutions made FAAC famous throughout the world but also its commercial and office access control solutions.



**2500**

PEOPLE EMPLOYED IN **5**  
**CONTINENTS**



**17**

PRODUCTION FACILITIES IN **15**  
**COUNTRIES**



**34**

SALES COMPANIES IN **25**  
**COUNTRIES**



**1**

A NETWORK OF MORE THAN  
**80 COUNTRIES SERVED BY**  
**OFFICIAL DISTRIBUTORS**

These are the numbers of FAAC Group, one of the most important companies of European industry.



## **Technologically innovative.**

The passion for research into new technological solutions and the optimisation of existing systems are the values on which FAAC's philosophy is based. That's the way our whole organisation works, to design products that are better every day.

## **Nothing but quality, always.**

The continuous inspection of its products makes FAAC synonymous with quality and safety. From the raw materials to its suppliers and the manufacturing processes, which are carried out entirely in-house, the keyword is Quality, without compromise.

## **Reliability and safety above all.**

All FAAC products undergo very thorough testing to ensure their long-term reliability. Scrupulous compliance with international safety standards ensures complete safety for people and the environment.

## **Customer satisfaction, every day.**

FAAC works to make its solutions a perfect answer to everyday needs. This is why FAAC guarantees the satisfaction of its customers by carefully monitoring the market to find and interpret new needs in advance.



# Quality has rules.

## Performance, reliability and price are the basic requirements behind each FAAC product.

To maintain the same high quality levels that have always characterised our products, the company continuously invests in technological innovation, production methods and organisation.

## Certification is as important as innovation

FAAC and certification go hand in hand. To start with, FAAC's Quality Management System is UNI EN ISO 9001:2015 certified.

## The most important certification is our DNA.

Our trademarks, patents and certifications all testify and confirm FAAC's unique business philosophy, which we have always considered "the most important certification of all".

Continuous commitment to component and product quality, careful selection of suppliers, and scrupulous production process quality control, since 1965 have made the FAAC brand a worldwide by-word for high quality, reliability, conformity to standards and end user safety.




Reg. Number	085 - A	Valid From	2017-04-11
First issue date	1996-02-28	Last change date	2018-10-31
Valid until	2020-04-10	ISO Sector	19

CERTIFICATE

Quality Management System Certificate  
**ISO 9001:2015**

We certify that the Quality Management System of the Organization:

**FAAC S.P.A. UNIPERSONALE**

Is in compliance with the standard UNI EN ISO 9001:2015 for the following products/services:

Design, manufacturing, sales and technical assistance of access automation systems, parking systems and access control systems.

Chief Operating Officer  
Gampiero Belcredi



The maintaining of the certification is subject to annual surveillance and dependent on the observance of Kiwa Carmet Italia contractual requirements.  
This certificate is supported by certificate n° 085 DPO-A and subject to the validity of the same.  
This certificate is composed of 1 page.

Kiwa Carmet Italia S.p.A.  
Società con scopo unico,  
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Kiwa Italia Holding Srl  
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**FAAC S.P.A. UNIPERSONALE**  
Fase Group Member  
Registered Headquarters  
- Via Caliano, 10 40069 Zola Predosa (BO) Italia

**Certified Sites**  
- Via Caliano, 10 40069 Zola Predosa (BO) Italia





Certificate – Сертификат – 證明書 – Certificat – 증명서 – 証明書

### Attestazione di Corrispondenza

#### Attestation of Compliance

**ECM-2018-022**

Test Report n. 17RDP095

Fabbricante: **FAAC S.p.A.**  
Manufacturer: Via Caliano, 10  
40069 – Zola Predosa (BO)

Prodotto: **ACCESS CONTROL SYSTEM**  
Product

Modello/i: **KEYDOM**  
Model/s

Norme armonizzate: **EN 61000-6-2:2005**  
Harmonized standard: **EN 61000-6-4:2007+A1:2011**

Direttiva(e) Directive(s): **2014/30/UE**  
Come linea guida As guideline: **Compatibilità Elettromagnetica**  
Electromagnetic Compatibility

Questa Attestazione di Corrispondenza è stata emessa su base volontaria. ECM conferma che il Test Report è esistente per il prodotto su indicato.  
Other relevant standards called by others relevant directives have to be observed in case they are applicable.  
Questo documento è valido solo per il prodotto e la configurazione descritti nel Test Report a partire dalla data di emissione di questa dichiarazione. In ogni caso il fabbricante è responsabile della certificazione del prodotto e non è esonerato dall'eseguire tutte le necessarie attività prima di immettere il prodotto sul mercato, in accordo con le direttive applicabili.  
The Manufacturer is also responsible of the internal production control to ensure the product are in compliance with the essential requirements of the above mentioned documents.

Valmaggia (BO)  
Loc. Castello di Serravalle

Data di emissione - Date of issuing 31/01/2018  
Data di scadenza - Expiry date 30/01/2021

Timbro

Firma autorizzata  
Authorized signature  
Luca Bedonni  
(Direttore di divisione / Division manager)



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# Consultation guide

New FAAC Access Control Price List  
Below a few indications as general consultation guidelines.

Product Family      Technical data      Product's plus      Product Family Models

Lettori e terminali

XKPR

Tipo di lettore

prossimità passiva  
tastiera

Installazione

a parete o colonna



XKPR 125



XKPR 1356

- Idoneo per installazioni in esterno
- Case in alluminio, tastiera e cover in acciaio
- Compatto, solido e sottile, si fondono in ogni contesto architettonico



CARATTERISTICHE TECNICHE

Modello	XKPR 125	XKPR 1356
Contenitore		metallico
Temperatura ambiente di esercizio		-20 °C +55 °C
Dimensioni (LxPxH)		72x28x100 mm
Collegamento		BUS bi-direzionale (per connessione al Door Controller)
Numero di LED ad alta luminosità		1 bi-colore (rosso & verde)
Grado di protezione		IP54
Tecnologia	125 KHz	13,56 MHz MIFARE
Buzzer		SI
Tastiera		Metallica 12 Tasti con retroilluminazione
Tipologia di installazione		a parete o su colonnetta

MODELLI FAMIGLIA

Modello	Descrizione	Codice articolo	Prezzo €
XKPR 125	Prossimità 125 KHz + Tastiera	105907	275,00
XKPR 1356	Prossimità Mifare 13,56 MHz + Tastiera	105922	275,00

APPARECCHIATURE ELETTRONICHE



Door Controller LAN/  
RS485

202323      € 390,00

ACCESSORI



Adattatore tubo  
esterno

401064      € 6,50



Colonnetta alta in  
alluminio  
(conf. da 2 pz.)

401034      € 97,00 cad.



Piastra fondazione per  
colonnetta alluminio  
(conf. da 20 pz.)

737630      € 15,50 cad.



Matassa 100 mt di cavo  
bus SPInet. Composto  
da 2 doppini intrecciati  
da 0,50 mm2

S-CAVO-BUS      € 160,50

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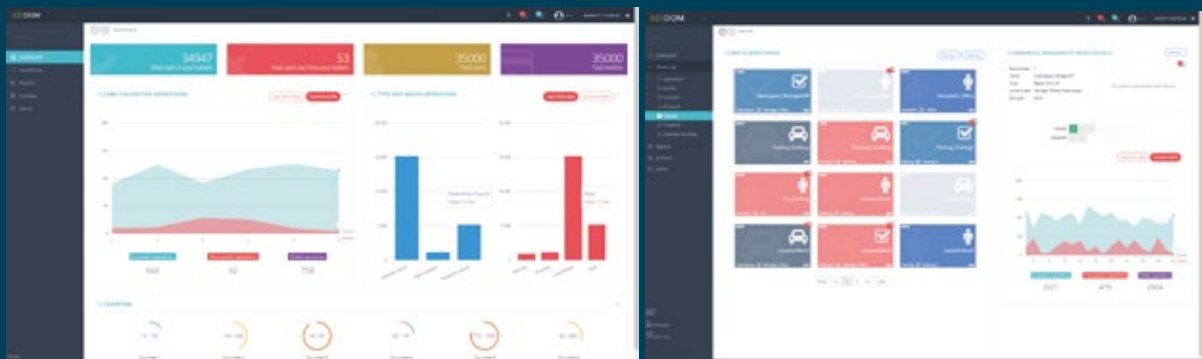


# KEYDOM

Keydom is the turn-key, plug-and-play access control system from FAAC.

This integrated system doesn't need any special installation, as its software comes pre-installed and included in the Network Controller unit.

The application is entirely web based and easily configurable through a browser opened on any device connected to the system.



## WEB BASED

The entirely web-based software structure means that just one, even mobile, device and a web browser are all you need to access and manage the KEYDOM system.



## EMBEDDED SOFTWARE

The Keydom software is pre-installed directly into the Network Controller. All you have to do is turn it on and configure the desired functions.



## USER FRIENDLY

You do not need to be an expert to configure the system, simply follow the instructions on the system screens.



## SOFTWARE ENTERPRISE

The extreme scalability of the system allows different architectures to be used according to your needs; if they change over time, the system will adapt to them, always making the initial investment worthwhile.



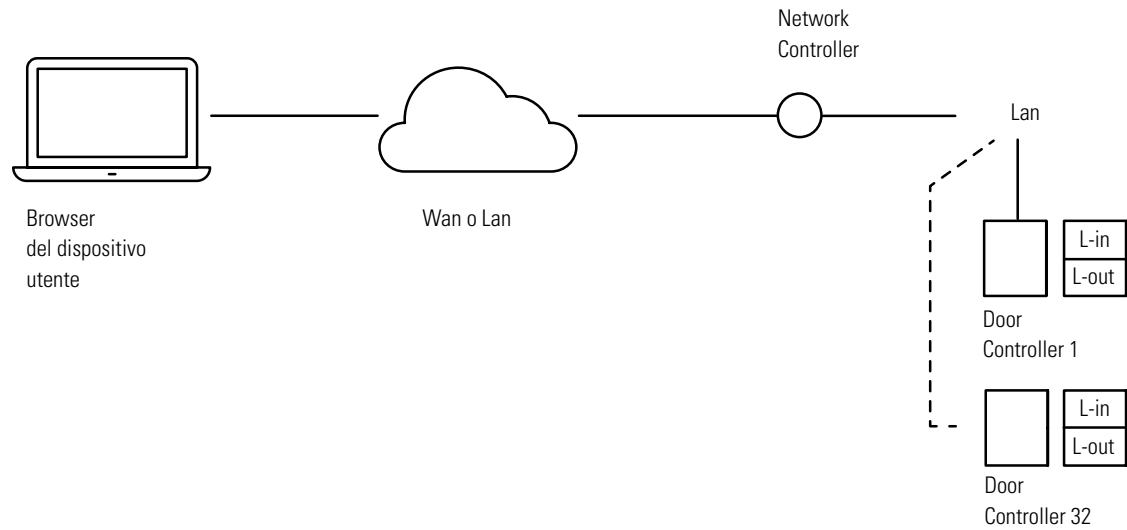
## READY TO BE INTEGRATED

The KEYDOM system has been created to be integrated with other systems and technologies to provide maximum security and performance

# SYSTEM ARCHITECTURE

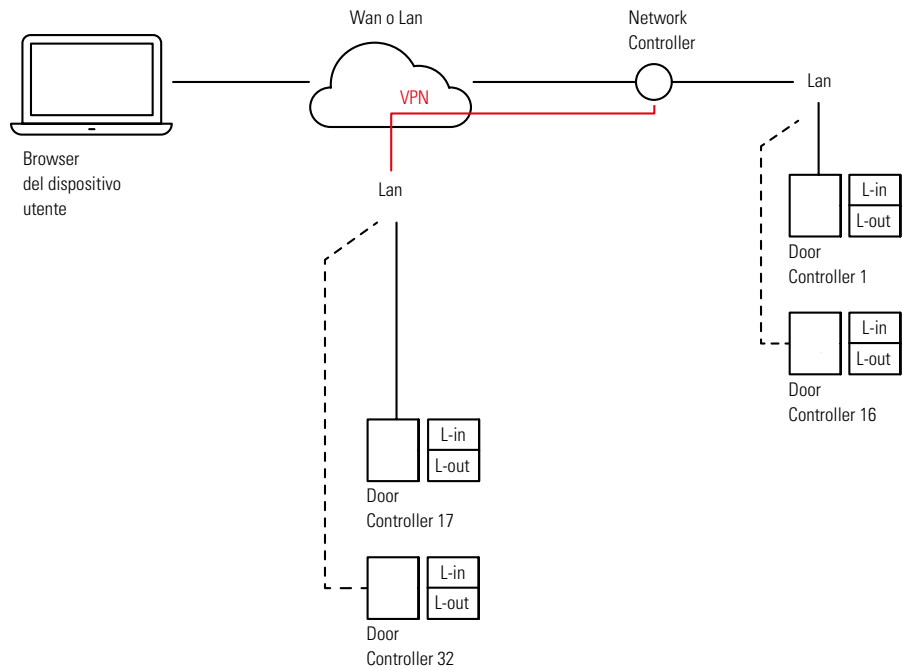
## INTEGRATED LOCAL SYSTEM

1 Network Controller  
Max 32 access points  
Max 200,000 users



## INTEGRATED DISTRIBUTED SYSTEM

1 Network Controller  
Max 32 access points  
Max 200,000 users

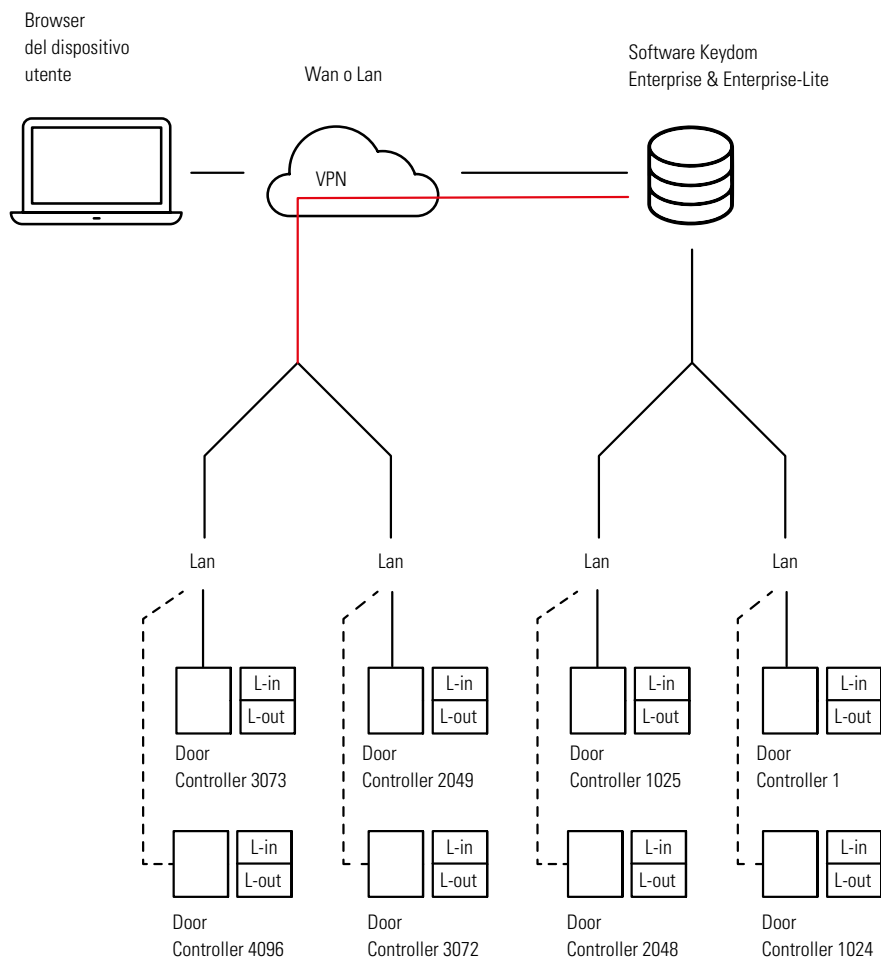




The extreme scalability of the system allows different architectures to be used according to your needs; if they change over time, the system will adapt to them, always making the initial investment worthwhile.

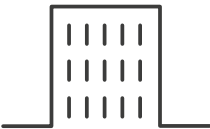
**ENTERPRISE SYSTEM  
& ENTERPRISE-LITE**

Enterprise Lite Software: max 72 accesses  
Enterprise Software: max 4,096 accesses  
Max 500,000 users



**KEYDOM IS FLEXIBLE**

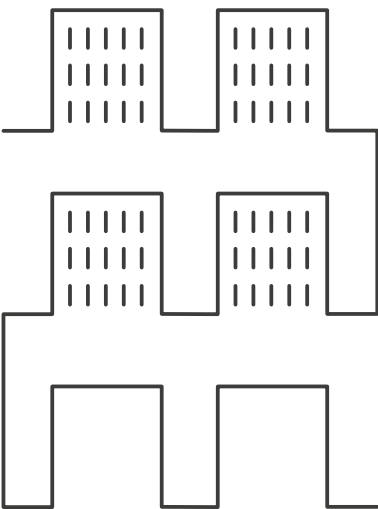
**INTEGRATED LOCAL SYSTEM**



**INTEGRATED DISTRIBUTED SYSTEM**



**ENTERPRISE SYSTEM  
& ENTERPRISE-LITE**



## CONTROL UNITS



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# NETWORK CONTROLLER



- Based on SoM System-On-Modules, it is the core of the entire KEYDOM access control system.
- KEYDOM software pre-installed.
- Easy to program via browser.
- Manages up to 32 access points.



## TECHNICAL SPECIFICATIONS

Model	ENC 32
Inputs	1 Ethernet port 10/100 Mb, 2 RS 485 ports
Power supply voltage	11÷15 Vdc
Enclosure	Plastic box (accessory)
Operating ambient temperature	-20 ÷ +55°C
Control unit dimensions	132x110 mm
Enclosure dimensions (LxDxH)	204x85x265 mm



FAMILY MODELS

Model	Description	Item code
ENC 32	ENC 32 Network Controller	202317

ACCESSORIES



12 Vdc - 2A - 24W  
power supply

202322



Enclosure mod. E for  
electronic control units

720119

# DOOR CONTROLLER



- Controller for a bidirectional pedestrian or vehicular access point (entry / exit).
- The "Door Controller" access point control panel has been designed to be able to manage all access point connections (input/output) in a simplified manner, optimizing the cabling.
- The Door Controller manages readers with multiple communication protocols



## TECHNICAL SPECIFICATIONS

Model	EDC 01L/R
Inputs	1 Ethernet port 10/100 Mb, 1 RS 485 port, 3 inputs (door status, exit button, 1 auxiliary), 1 bi-directional bus for 2 readers (also R/W technology), 2 Wiegand/magnetic stripe ports for commercial readers, 2 RS232 ports for commercial readers (e.g. barcode)
Outputs	2 250vac 10A relays (NO and NC)
Events	Max 8,000 (offline)
Number of users managed	Max 50,000 (offline)
Power supply voltage	11÷15 Vdc
Enclosure	Plastic box (accessory)
Operating ambient temperature	-20 ÷ +55°C
Control unit dimensions	132x110 mm
Enclosure dimensions (LxDxH)	204x85x265 mm
Battery	For RTC, cards and events

FAMILY MODELS

Model	Description	Item code
EDC 01L/R	EDC 01L/R LAN/RS485 Door Controller	202323

ACCESSORIES



12 Vdc - 2A - 24W  
power supply

202322



Enclosure mod. E for  
electronic control units

720119



I/O expansion card - 4  
OUTPUT 24VDC 1A - 4  
INPUT

202353



# READERS AND TERMINALS

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# XTRR

Type of reader

passive proximity

Installation

wall or column



XTRR 125



XTRR 1356

- Suitable for outdoor installations
- Aluminum case and steel cover
- Compact, solid, slim: suitable for all architectural contexts



## TECHNICAL SPECIFICATIONS

Model	XTRR 125	XTRR 1356
Enclosure	Metal	
Operating ambient temperature	-20 ÷ +55°C	
Dimensions (LxDxH)	72x28x100 mm	
Connection	Bi-directional BUS (for connection to the Door Controller)	
Number of high brightness LED	1 bi-color (red & green)	
Protection class	IP54	
Technology	125 KHz	13.56 MHz MIFARE
Buzzer	Yes	
Installation type	wall or on column installation	

FAMILY MODELS

Model	Description	Item code
XTRR 125	Proximity 125 KHz	105925
XTRR 1356	Proximity 13.56 MHz MIFARE	105924

ELECTRONIC CONTROL UNITS



Door Controller LAN/  
RS485

202323

ACCESSORIES



External tube adapter

401064



High column in  
aluminium  
(2 pcs. pack)

401034



Foundation plate for  
aluminium column  
(T10-T11-T10 E-T11 E)  
(20 pcs. pack)

737630



100 m skein of SPInet  
bus cable. Composed of  
2 twisted pairs of 0.50  
mm2

S-CAVO-BUS



# XKPR

Type of reader

passive proximity  
keyboard

Installation

wall or column



**XKPR 125**



**XKPR 1356**

- Suitable for outdoor installations
- Aluminum case, steel keyboard and cover
- Compact, solid, slim: suitable for all architectural contexts



TECHNICAL SPECIFICATIONS

Model	XKPR 125	XKPR 1356
Enclosure	metal	
Operating ambient temperature	-20 °C +55 °C	
Dimensions (LxDxH)	72x28x100 mm	
Connection	Bi-directional BUS (for connection to the Door Controller)	
Number of high brightness LED	1 bi-color (red & green)	
Protection class	IP54	
Technology	125 KHz	13.56 MHz MIFARE
Buzzer	Yes	
Keypad	Metal 12-key keyboard with backlighting	
Installation type	wall or on column installation	

FAMILY MODELS

Model	Description	Item code
XKPR 125	Proximity 125 KHz + Keyboard	105907
XKPR 1356	Mifare proximity 13.56 MHz + Keyboard	105922

ELECTRONIC CONTROL UNITS



Door Controller LAN/  
RS485

202323

ACCESSORIES



External tube adapter

401064



High column in  
aluminium  
(2 pcs. pack)

401034



Foundation plate for  
aluminium column  
(T10-T11-T10 E-T11 E)  
(20 pcs. pack)

737630



100 m skein of SPInet  
bus cable. Composed of  
2 twisted pairs of 0.50  
mm2

S-CAVO-BUS

# XKPRD



Type of reader

passive proximity  
keyboard

Installation

wall

- Available in 125 KHZ and 13,56 MHz versions
- Also suitable for presence detection (in the double passive antenna version)
- Equipped with a graphic display for displaying date, time and personalized messages



TECHNICAL SPECIFICATIONS

Model	XKPRD 125	XKPRD 125 DA	XKPRD 1356
Enclosure	Plastic		
Operating ambient temperature	-10 ÷ +55°C		
Dimensions (LxDxH)	110x30x195 mm		
Connection	Bi-directional BUS (for connection to the Door Controller)		
Protection class	IP54		
Technology	125 KHz single antenna	125 KHz double antenna	13.56 MHz MIFARE, single antenna
Buzzer	Yes		
Keypad	Plastic capacitive 16-key keyboard with backlighting		
Display	3" graphic		
Installation type	wall		

FAMILY MODELS

Model	Description	Item code
XKPR 125D	Proximity 125 KHz + keyboard + display	103221
XKPR 125D DA	Double proximity 125 KHz + keyboard + display	103222
XKPR 1356D	Proximity 13.56 MHz, MIFARE + keyboard + display	105923

ELECTRONIC CONTROL UNITS



Door Controller LAN/  
RS485

202323

ACCESSORIES



XKPRD reader adapter

401006



100 m skein of SPI net  
bus cable. Composed of  
2 twisted pairs of 0.50  
mm2

S-CAVO-BUS



# AT4 868



Unit for controlling vehicle access with UHF 868 long range detection

Type of reader

Distance detection

Installation

wall or pole



**TAG UHF 868**





**AT4 868**

- Designed to identify vehicles equipped with passive TAG.
- The recognition occurs at a maximum distance of 4 m



## TECHNICAL SPECIFICATIONS

Model	AT4 868	TAG UHF 868
Reading unit	for detection up to max 4 m	
TAG reader	passive UHF 868	-
Structure	aluminium with jointed support	-
Installation	on wall or post	self-adhesive
Frontal	in plastic material	-
Dimensions	200 x 220 x 47 mm	90 x 27 mm (W x H)
Weight	1 Kg	-
Operating ambient temperature	-20°C ÷ +55°C	-
Absorbed current / power supply voltage	1A at 12V  and 0.5A at 24V 	-
Protection class	IP 65	-
Interface	RS232 or OMRON ISO 7811/2	-
Maximum distance between reader and management unit	50 m	-

FAMILY MODELS

Model	Description	Item code
AT4 868	Reading unit	103162
TAG UHF 868	Passive transponders	786348

ELECTRONIC CONTROL UNITS



Door Controller LAN/  
RS485

202323

ACCESSORIES



FG1 Single channel  
detector

785529



FG2 Two-channel  
detector

785527



12 Vdc - 2A - 24W  
power supply

202322



Enclosure mod. E for  
electronic control units

720119



Support post for AT4  
and AT4 868

722233

PASSIVE TRANSPONDERS



Passive transponders

786348

NOTE

The maximum capacity of readers can only be reached under the following conditions:  
TAG – reader front alignment  
TAG fastened in horizontal position  
TAG applied on unshielded glass  
Cannot be used for mixed vehicle access control – cars and trucks/coaches  
The self-adhesive TAG can be damaged if removed

# AT4

## AT4 unit for speed and long range detection



Type of reader

Distance detection

Installation

wall or pole



**WINDOW BUTTON**



**AT4**

- Designed to identify vehicles equipped with active TAG at 2.45 GHz.
- Vehicle recognition at speed



### TECHNICAL SPECIFICATIONS

Model	AT4
Power supply voltage	12 - 24V 
Connection	Magnetic Stripe
Protection class	IP 65
Range	for detection up to 4 m
Installation type	on a pole or wall
TAG reading	active at 2.45 GHz
Detection speed	STOP and GO
Structure	in aluminium on jointed support
Frontal	in plastic material
Maximum distance between reader and management unit	100 metres

FAMILY MODELS

Model	Description	Item code
AT4	reader unit for active long range transponder at 2.45 GHz	103161
WINDOW BUTTON	active LONG RANGE transponder at 2.45 GHz	786341

ELECTRONIC CONTROL UNITS



Door Controller LAN/  
RS485

202323

ACCESSORIES



FG1 Single channel  
detector

785529



FG2 Two-channel  
detector

785527

Support post for AT4  
and AT4 868

722233



12 Vdc - 2A - 24W  
power supply

202322



Enclosure mod. E for  
electronic control units

720119

BADGE / CARDS / TRANSPONDER



Active transponder for vehicle identification,  
integrated lithium battery, complete with  
suction cup for fixing on the windshield.

786341



# READERPLATE

## License plate reader



Type of reader

License plate  
recognition

Installation

on a pole or wall

- Integrated license plate recognition system for the management of vehicle access points and traffic monitoring
- Works with any type of ambient lighting



### TECHNICAL SPECIFICATIONS

Model	READERPLATE-504MP
Power supply voltage	230 Vca
Enclosure	Metal
Dimensions (LxDxH)	130x410x120 mm
Connection	RS 232
Protection class	IP66
Range	up to 12 mt
Recognised number plates	Up to 46 different countries

FAMILY MODELS

Model	Description	Item code
READERPLATE-504MP	License plate reading camera	READERPLATE-504MP

ELECTRONIC CONTROL UNITS



Door Controller LAN/  
RS485

202323

ACCESSORIES

Support bracket for wall mounting of  
READERPLATE camera

READERPLATE-STAF-P

Support bracket for pole mounting of  
READERPLATE camera

READERPLATE-STA-PL

# BARCODE SCANNER

## Barcode reader



Type of reader

- barcode
- qcode
- passive proximity

Installation

wall or column

- Stainless steel container with option for installation outdoors
- Precise image scanning with better reading compared to linear scanners
- Digital imaging technology with no moving parts, which ensures better product reliability
- Optimal performance in reading 1D and 2D codes to improve productivity during data acquisition
- Reading of the bar code from a smartphone



TECHNICAL SPECIFICATIONS

Model	SCAN-V	SCAN-V-PS	SCAN-V-MIF
Enclosure		Metal	
Dimensions (LxDxH)		250x105x150 mm	
Connection		RS 232	
Technology	Barcode / Qcode	Barcode / Qcode + proximity 125 KHz	Barcode / Qcode + proximity 13.56 MHz

FAMILY MODELS

Model	Description	Item code
SCAN-V	Omnidirectional optical 1D and 2D barcode reader, painted steel case	SCAN-V
SCAN-V-PS	Omnidirectional optical 1D and 2D barcode reader + 125KHz proximity reader, painted steel case	SCAN-V-PS
SCAN-V-MIF	Omnidirectional optical 1D and 2D barcode reader + 13.56 MHz proximity reader, painted steel case	SCAN-V-MIF

ELECTRONIC CONTROL UNITS



Door Controller LAN/  
RS485

202323

# ST-STA-AUT



- Desktop printer for ticket/receipt issuance
- Can be connected to a PC via USB connection



TECHNICAL SPECIFICATIONS

Model	ST-STA-AUT
PC connection	USB
Printer	Thermal printer with cutter



FAMILY MODELS

Model	Description	Item code
ST-STA-AUT	Tabletop ticket printer with automatic cutter	ST-STA-AUT

ACCESSORIES

Pack of 4 rolls of  
thermal paper 60 x  
80 mm. 60 gr/m2 for  
ST-STA-AUT desktop  
printer  
TICKET-  
60X80-G60

# LE-EM-TAST

## Keyboard emulation reader



Type of reader

keyboard emulation

Installation

at the counter

- Reader for tag entry in the software archive
- Small container
- Reading technology 125 KHz Unique or 13.56 MHz MIFARE (1K & 4K, Ultralight, DESFire) reading of the UID code only



### TECHNICAL SPECIFICATIONS

Model	LE-EM-TAST
Power supply voltage	5 Vdc 150 mA (power supplied directly from the USB interface)
Enclosure	ABS
Operating ambient temperature	0°C +50°C
Dimensions (LxDxH)	42x120x86 mm
Technology	125 KHz Unique / 13.56MHz MIFARE (1K & 4K, Ultralight, DESFire) reading of the UID code only
Weight	115g
PC connection	Direct with USB
Operation	With keyboard emulation

### FAMILY MODELS

Model	Description	Item code
LE-EM-TAST	Dual-technology proximity reader 125KHz Unique + 13.56 MHz MIFARE	LE-EMTAST

# Traffic light

LED traffic light



FAMILY MODELS

Model	Item code
Traffic light with 2 LED lights (red and green)	103177

ACCESSORIES

Traffic light pole	Pole support for LED traffic light	Wall support for LED traffic light
103182	103174	103169

Vehicular column with card management

Type of reader

Passive proximity



- Available in a single-level version for cars and a double-level version for cars and trucks
- Provided with an intercom with call button, speaker and microphone
- Temperature control with heater and fan
- Complete with a dual-channel Door Controller and Detector monitoring unit for magnetic loops
- The card and ticket version is available for the management of users who are occasional visitors.



TECHNICAL SPECIFICATIONS

Model	VT 125	VT 1356	VT 125 H	VT 1356 H
Display	5.1" Monochromatic Graphic			
Card technology	Proximity 125Khz Unique, 13.56Mhz MIFARE			
Control units	Including a dual-channel Door Controller and Detector			
Connection	LAN Ethernet			
Temperature control	Heater and fan unit controlled from the thermostat			
Max absorbed power	20W / 420W with heater			
Absorbed current	0.2A / 1.9A with heater			
Designed for use with an intercom	Call button, speaker and microphone			
Operating temperature	-20°C÷+55°C			
Protection class	IP 44			
Dimensions (LxDxH)	280x450x1300		280x450x2050	
Weight	40 Kg		67 Kg	
Material type	RAL 7021 coated 430-grade stainless steel structure			

FAMILY MODELS

Model	Description	Item code
VT 125	VEHICULAR PROXIMITY READER 125KHz	103347
VT 1356	VEHICULAR PROXIMITY READER 13,56MHz	103348
VT 125 H	VEHICULAR PROXIMITY READER 125KHz - Double Level	103349
VT 1356 H	VEHICULAR PROXIMITY READER 13,56MHz - Double Level	103350

ACCESSORIES

Column base plate	Coated 200 mm column insert
40.G00079	45.G00038

NOTE

For more info about columns to manage visitors via ticketing, please contact your local FAAC sales representative

# VTDT/VRTT

## Vehicular column with card and ticket management

Type of reader

- Passive proximity
- QRcode
- Barcode



- Available in a single-level version for cars and a double-level version for cars and trucks
- Provided with an intercom with call button, speaker and microphone
- Temperature control with heater and fan
- Complete with a dual-channel Door Controller and Detector monitoring unit for magnetic loops



TECHNICAL SPECIFICATIONS

Model	VTDT 125	VTDT 125 H	VTDT 1356	VTDT 1356 H	VRTT 125	VRTT 125 H	VRTT 1356	VRTT 1356 H
Display	5.1" Monochromatic Graphic							
Card technology	Proximity 125Khz Unique, 13.56Mhz MIFARE							
Ticket technology	Thermal printer for barcode or QRcode ticket issuance				Optical scanner for QR code ticket reading			
Control units	Including a dual-channel Door Controller and Detector							
Connection	LAN Ethernet							
Temperature control	Heater and fan unit controlled from the thermostat							
Max absorbed power	20W / 420W with heater							
Absorbed current	0.2A / 1.9A with heater							
Designed for use with an intercom	Call button, speaker and microphone							
Operating temperature	-20°C÷+55°C							
Protection class	IP 44							
Dimensions (LxDxH)	280x450x1300	280x450x2050	280x450x1300	280x450x2050	280x450x1300	280x450x2050	280x450x1300	280x450x2050
Weight	40 Kg	67 Kg	40 Kg	67 Kg	40 Kg	67 Kg	40 Kg	67 Kg
Material type	RAL 7021 coated 430-grade stainless steel structure							



FAMILY MODELS

Model	Description	Item code
VTDT 125	Ticket Dispenser + 125KHz reader	103339
VRT 125	Ticket Reader + 125KHz reader	103340
VTDT 1356	Ticket Dispenser + 13,56MHz Tag Reader	103341
VRT 1356	Ticket Reader + 13,56MHz Reader	103342
VTDT 125 H	Ticket Dispenser + 125KHz reader - Double Level	103343
VRT 125 H	Ticket Reader + 125KHz Reader - Double Level	103344
VTDT 1356 H	Ticket Dispenser + 13,56MHz Reader - Double Level	103345
VRT 1356 H	Ticket Reader + 13,56MHz Reader - Double Level	103346

ACCESSORIES

Column base plate	Coated 200 mm column insert	Roll of 140g thermal paper (270 diameter) Max 4500 tickets	Roll of 80g thermal paper (270 diameter) Max 9000 tickets
40.G00079	40.G00038	930048	930049

NOTE

For more info about columns to manage visitors via ticketing, please contact your local FAAC sales representative

# FG1 - FG2

System type



Pulse generators for special applications



- Inductive vehicle detection system
- Suitable for controlling barriers, gates and access control systems
- Relay outputs with clean contacts
- Identification of presence or position
- Fastening on DIN rail



TECHNICAL SPECIFICATIONS

Model	FG1	FG2
Number of connectable turns	1	2
Power supply voltage	24V  - 24V~	
Contact ratings	250 mA / 24V 	
Sensitivity levels independent from loop inductance	4	
Installation type	On DIN guide	
Operating ambient temperature	-20°C ÷ +55°C	

FAMILY MODELS

Model	Description	Item code
FG1 single channel	Metallic mass detectors	785529
FG2 two-channels		785527

# CARDS AND TRANSPONDERS

# CARDS AND TRANSPONDERS



Magnetic card



Proximity card



Proximity + magnetic card



Key-chain format proximity tag



Proximity tag watch format

- Magnetic, proximity cards, and proximity cards with magnetic stripe, key-chain or watch transponder
- Can be customized using printing procedures suitable to the number of items requested

## MAGNETIC CARDS

Model	Description	Item code
Card format	Blank standard ISO card with high-coercivity magnetic stripe	786321
Card format	Standard ISO card with high-coercivity magnetic stripe, programmed and numbered	786375 .
Card format	Standard ISO card with high-coercivity magnetic stripe, programmed and numbered, with color printing on card front side	786376 .

## RFID 125 KHZ TRANSPONDER

Model	Description	Item code
Card format	125 KHz passive proximity card, standard blank Unique ISO card	786335
Card format	125 KHz passive proximity card, standard Unique ISO card, numbered	786377 .
Card format	125 KHz passive proximity card, standard Unique ISO card, numbered, with color printing on card front side	786378
Card format	125 KHz passive proximity card, standard Unique ISO card with FAAC logo, not numbered	786351
Card format	125 KHz standard Unique ISO passive proximity card with FAAC logo, numbered	786379 .
Card format	125 KHz standard blank Unique ISO passive proximity card with high-coercivity magnetic stripe	786322
Card format	125 KHz standard Unique ISO passive proximity card with high-coercivity magnetic stripe, programmed and numbered	786380
Card format	125 KHz standard Unique ISO passive proximity card with high-coercivity magnetic stripe, programmed and numbered, with color printing on card front side	786381
Key-chain format	Passive proximity transponder 125 KHz key-chain format	786323
Watch format	Passive proximity transponder 125 KHz watch format	786373

# CARDS AND TRANSPONDERS

TRANSPONDER MIFARE 13,56 MHZ

Model	Description	Item code
Card format	MIFARE Classic passive proximity card 1Kbyte ISO14443A neutral ISO standard	786353
Card format	MIFARE Classic passive proximity card 1Kbyte ISO14443A ISO standard, numbered	786354
Card format	MIFARE Classic passive proximity card 1Kbyte ISO14443A ISO standard, numbered, with color printing on card front side	786355
Key-chain format	MIFARE Classic passive proximity card 1Kbyte ISO14443A key-chain format	786374
Card format	MIFARE Classic passive proximity card 1Kbyte ISO14443A neutral ISO standard with high-coercivity magnetic stripe	786356
Card format	MIFARE Classic passive proximity card 1Kbyte ISO14443A ISO standard with high-coercivity magnetic stripe, programmed and numbered	786357
Card format	MIFARE Classic passive proximity card 1Kbyte ISO14443A ISO standard with high-coercivity magnetic stripe, programmed and numbered, with color printing on card front side	786358
Card format	Dual-technology passive proximity card 125 KHz + MIFARE 1Kbyte ISO 14443A, neutral	786359
Card format	Dual-technology passive proximity card 125 KHz + MIFARE 1Kbyte ISO 14443A, numbered	786360
Card format	Dual-technology passive proximity card 125 KHz + MIFARE 1Kbyte ISO 14443A, numbered, with color printing on card front side	786361



# KEYDOM SOFTWARE

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# ENTERPRISE

Keydom Software for physical and virtual X64 server architectures



- **WEB BASED:** The entirely web-based software structure means that just one device, even mobile, and a web browser are all you need to access and manage the KEYDOM system.
- **USER FRIENDLY:** You do not need to be an expert in order to configure the system, simply follow the instructions in clear and complete system screens
- **READY TO BE INTEGRATED:** The KEYDOM system has been created to be integrated with other systems and technologies to provide maximum security and performance

## TECHNICAL SPECIFICATIONS

Model	Enterprise
Operating system	Microsoft Windows (7/8/10/Server 2008/2012/2016)
Virtual machine	VMware/VirtualBox
User management	Up to 500.000
Door Controller Management	Up to 4.096

## FAMILY MODELS

Model	Description	Item code
ENTERPRISE	Enterprise Software Keydom for architecture Server X64	779089
ENTERPRISE-LITE	Keydom Enterprise-Lite software for X64 server architecture max.72 D.C.	779090

NOTE: option to complete remote and on-site start-up for a fee; for discounted pricing, contact your local FAAC sales representative.

TURNSTILES AND RETRACTABLE GATES

Pedestrian gates  
FlowMotion®

***m*MAGNETIC®**  
ACCESS TO PROGRESS





Seamless integration in complex architecture: we designed FlowMotion® with this in mind. Not only in terms of the shape of the housing, but also its color. This is why we offer all the products in the FlowMotion® series in a wide range of colors and finishes and effect finishes.

***WHICH COLOR WOULD YOU LIKE?***



# FlowMotion® range



## mTripod

**The comfortable one:** its smooth drive and sensitive impact detection system make passage through the mTripod and mTripod short turnstiles extremely simple and easy.

### Barrier technology

Tripod turnstile

### Opening and closing speed

Medium

### Security level

Low

## mSwing

**Versatile:** not only is the mSwing version designed for optically pleasing entrances, but it is also particularly suitable for wheelchair-friendly accesses and safe escape routes.

### Barrier technology

Swing door

### Opening and closing speed

Low

### Security level

Low

## mWing

**The elegant one:** 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 swing gates

### Opening and closing speed

High

### Security level

Medium/high (depending on the barrier elements)

# FlowMotion® range



## mTwing

**The transparent one:** the glass barrier elements and the railing system provide a clear view into the building. But that's not all: they also prevent undercrawling and ensure reliable individualization.

### Barrier technology

Half-height turnstile

### Opening and closing speed

Low

### Security level

Low

*Availability: Third Quarter 2020*

## mSlide

**The secure one:** no one can avoid this gate and it is impossible to climb over it. The barrier elements on the mSlide turnstile can be up to 71 inches high and separate restricted areas with continuous glass panels.

### Barrier technology

Pedestrian passageway with sliding doors

### Opening and closing speed

High

### Security level

Medium/high (depending on the barrier elements)

*Availability: First Quarter 2021*

## mFlap

**The quick one:** unbeatable! mFlap offers the fastest opening and closing speed of all our FlowMotion® pedestrian gates. They control a large number of visitors in the shortest possible time.

### Barrier technology

Pedestrian passageway with wing flaps

### Opening and closing speed


High

### Security level

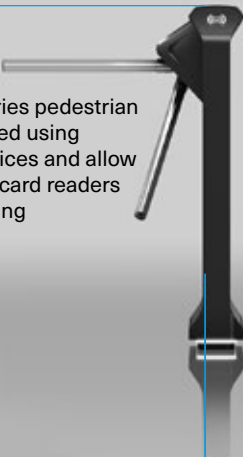
Low

*Availability: First Quarter 2021*


# FlowMotion® range



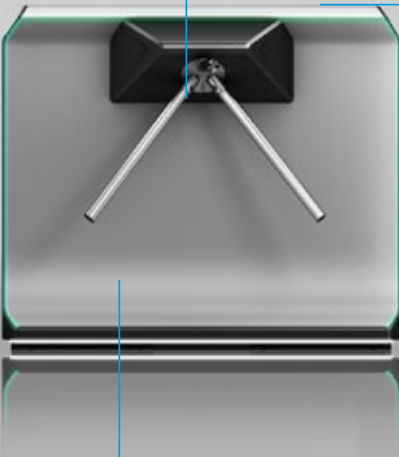
**Access control**  
The FlowMotion® series pedestrian gates can be controlled using common reading devices and allow numerous models of card readers to be installed, ensuring maximum flexibility.




**Design**  
The FlowMotion® series is characterized by an extremely slim profile, an attractive shape and smooth lines.



**Haptics**  
Unlike stainless steel, mDure is not cold and hard but instead feels pleasantly warm and nice to touch.



**Illumination**  
The frame-edge illumination (optional) indicates that the system is ready for the user to pass through. Optional floor illumination also acts as a guide for the users.



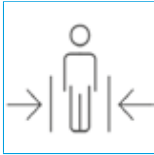
**Material**  
The housing is made of the specially developed two-component polymer mDure.



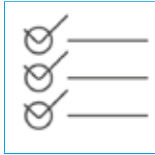
**Comfortable passage**  
The smoothly operating motor drive makes access extremely easy and the sensitive impact detection system ensures maximum user safety.



**Unobstructed escape routes**  
FlowMotion® gates allow free passage in the event of a power outage or an alarm. When the alarm is over, or power has been restored, operation resumes automatically.



**Secure access control**  
Light sensors (optional) issue an alarm if someone attempts to crawl under or climb over the pedestrian gates. Interlocking when the gate is closed (optional) prevents forced entry.



**Comprehensive functions**  
The emergency release, the pulse counter and the random generator for screening users are standard components of the FlowMotion® series and are directly integrated in the control system.

# FlowMotion® range

## Control systems

The MGC control system is the core of all FlowMotion® gates. It allows direct access to all functions, parameters and information via the integrated display and control buttons.

## Drive

The extensively tested MHTM™ drive technology ensures an easy and smooth passage. It is maintenance-free, quiet and energy efficient. It is also designed for over 10,000,000 opening and closing cycles.

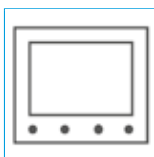
## Construction

The systems consist of an mDure frame into which all other components are integrated. The side panels are attached to the frame without any visible joints, creating the impression of a seamless construction.



### Rapid installation

Our pedestrian gates are supplied ready for installation. All the selected options have already been installed and the corresponding parameters preset before delivery. This, together with the hole templates, considerably reduce commissioning time.



### Simple parameterization

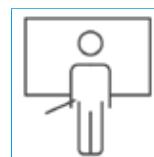
All of the MGC control system functions and settings can be viewed and edited very quickly via the display, the four buttons and the well-designed user interface. It is therefore not necessary to use a notebook or connection cables.



### Full documentation

Construction specifications, plans, dimensional drawings and technical data: our customers receive all relevant documentation.

This means that they always have the necessary details during project planning, commissioning, or for compliance certification.



### Full training

Optional training courses to ensure the high quality of the installation and excellent service.



# FlowMotion® range

**Frame-edge Illumination**

The elegant integrated lighting elements offer flexible use to indicate operational readiness, the direction of passage or the validity of the access authorization.

**Passage direction indicator**

The light elements on the front face show visitors at a glance if the passage is open to them and whether they have valid access authorization.

**Ethernet interface**

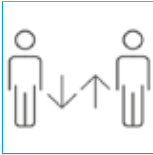
Today's connections for the buildings of tomorrow: FlowMotion® gates can be integrated into access control systems via the Ethernet interface.

**Floor illumination**

The white floor illumination gives the impression that the gates float on a cloud of light and simplifies orientation in the entrance area for visitors.

**Interlocking**

The gate elements can be locked in the closed position. This effectively prevents attempts to breach the access.



**Full flexibility**  
The bidirectional operation of the FlowMotion® gates makes them highly flexible.



**Large numbers of visitors**  
If there is a high number of visitor authorizations that have to be validated in a very short time, multi-lane passages can be created. All FlowMotion® pedestrian gates are suitable for installation in a line configuration.



**Wheelchair-friendly access**  
Variants of FlowMotion® gates are available with large passage widths for wheelchair users, the transport of materials and many other requirements. mSwing swing doors offer another alternative for providing wheelchair-friendly access.



**Unobstructed escape routes**  
All FlowMotion® gates allow free passage in the event of a power outage or an alarm. mSwing swing doors allow exceptionally wide and officially approved escape routes to be implemented.

# TURNSTILES AND RETRACTABLE GATES

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Tripod turnstile



Passage length

550 mm

Opening time

~ 1,5 sec.

- Revolutionary design, winner of the German Design Award 2018
- Complete functions and intuitive operation
- Collapsible arm mechanism (optional) allows passage in case of blackouts or alarms
- Ethernet plug-in module for IP connection (optional)
- Designed for 10 million opening and closing cycles.



TECHNICAL SPECIFICATIONS

Model	mTripod
Barrier element movement	3x120°
Barrier element material	Stainless steel / carbon
Opening and closing time	1,5 sec.
Number of people per minute *	40*
Passage length	550 mm
Dimensions (LxDxH)	Long - 1300 x 290 x 1050 mm / Short 730 x 290 x 1050 mm
Housing material	mDure
Protection class	IP 54
Operating ambient temperature	-30°C ÷ +55°C
Power supply voltage	110 - 240 VAC 50/60 Hz
Max. power	30 W
Barrier height	Half
Use frequency	100%
Weight	Long 70Kg / Short 57Kg

\* The data depends greatly on the degree of familiarity that the person has with the system.

## FAMILY MODELS

### Model

### Item code

mTripod FlowMotion® - long version

FMTP\_ML

mTripod FlowMotion® - short version

FMTP\_MS

## PACKS

**mTripod FlowMotion includes:** MGC control system with 4 connectors for plug-in modules, a BA100 Frame in the standard anthracite basalt color, EA100 locking arms in stainless steel, FP100 Standard front plates (2 pieces), BP100 Fastening profiles (4 pieces)

## MTRIPOD OPTIONS

### SPECIAL COLOUR

The customer can select his preferred color by referring to the color chart

### Product Description

### Item code

Custom color front and rear panel ,  
other elements in anthracite

SL100

### ALTERNATIVE LOCKING ARMS

### Product Description

### Item code

Cost delta for mTripod carbon arms

CS100

### COLLAPSIBLE ARM

Upper collapsible arm in case of power failure or emergency signal. Automatic reset when power returns or when the emergency signal is reset.

### Product Description

### Item code

mTripod collapsible arm

DA100

Power supply unit: one VE100 can  
power all electrical options

VE100

### ARM LOCKING UNIT

Mechanical interlock in case of attempted forced access without authorization to pass. Automatic reset after the preset time.

### Product Description

### Item code

Mechanical limit switch locking,  
+/-5 degrees of movement

VERH100

Power supply unit: one VE100 can  
power all electrical options

VE100

## FRAME LIGHTING

LED lighting of the frame edges in red/green with separate control of the entry and exit sides for fixed lighting or the display of passage authorization.

Product Description	Item code
LED lighting of the frame edges in red/green for the long mTripod version	RLED100
LED lighting of the frame edges in red/green for the short mTripod version	RLED101
Power supply unit: one VE100 can power all electrical options	VE100

## LOWER LIGHTING

LED floor lighting as a stylish light and as an supplementary passenger flow indicator.  
It can be powered on/off with a digital input.

Product Description	Item code
White LED floor lighting for the long mTripod version	BOLED100
White LED floor lighting for the short mTripod version	BOLED101
Power supply unit: one VE100 can power all electrical options	VE100

## SIGNALING LED

Signaling LED for the random user control generator.  
This LED comes pre-mounted on the device

Product Description	Item code
Red signaling LED for random generators	DLED100

## GATE END DISPLAY

Gate end display (GED) for signaling the direction of passage and authorization for passage through a green or red LED. The GED display comes pre-mounted on both sides.

Product Description	Item code
Gate end display - Direction indication for both directions	GED100

## DETECTION OF CLIMBING OVER AND PASSING UNDER THE LOCKING ARM

Notification in case of attempted passing under the barrier or climbing over without validation. Automatic reset after the preset time.

Product Description	Item code
Detection of climbing over the locking arm (acoustic signal with ESU01 available)	USE100
Detection of passing under the locking arm (acoustic signal with ESU01 available)	UKE100

## ACOUSTIC SIGNAL

Acoustic signal for the additional indication of attempted forced passages, a random user control generator, operational errors, or an attempt to pass under / climb over the barrier. Automatic reset after the preset time interval.

Product Description	Item code
Internal acoustic signal, pulse signal/continuous signal	ESU01

## ETHERNET MODULE

Remote control and parameterization of mTripod FlowMotion® via IP

Product Description	Item code
Ethernet interface as a plug-in module	EM01

## OTHER ACCESSORIES

Product Description	Item code
Illuminated push button for passage authorization (for passage direction)	DT100
Emergency stop button	NT100
Standard support for badge reader to be affixed on the TOP	AVL100
Plate with RFID symbol (1 pc.)	FP104

## ASSEMBLY KIT
























Each assembly kit contains fastening materials for the installation of the mTripod

Product Description	Item code
Assembly kit for installation on a finished floor	BSS100
FlowMotion glue cartridge for fastening the KPL100 to a finished floor	BSSKL100
Base plate for gluing FlowMotion to finished floors	KLP100
Short base plate for gluing FlowMotion to finished floors	KLP101
FlowMotion base frame	FURA100
Assembly kit for installing the FlowMotion gate on a base frame	BSSFURA100
Short base frame for FlowMotion	FURA101

## TABLE PANELS

Product Description	Item code
Panel for desk, to control 1 device	PG01
Panel for desk, to control 2 devices	PG02
Panel for desk, to control 3 devices	PG03
Panel for desk, to control 4 devices	PG04

LIST OF SPECIAL COLORS AVAILABLE

RAL COLOR		
Color code	Color designation	
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 aluminum 	
RAL 9010	Pure white 	
RAL 9016	Traffic white 	

EFFECT PAINT		
Color code	Color designation	
NCS 0080-G40Y	Green	
NCS S 0300-N	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 gray	
NCS S 1005-Y50R	Beige	
NCS S 1020-B50G	Light green	
NCS 1040-G60Y	Light Yellow	
NCS S 1060-B	Light blue	
NCS S 1502-Y50R	Light beige	
NCS S 2005-Y50R	Warm light 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 gray	
NCS S 7010-Y30R	Brown	
NCS S 7500-N	Dark gray	

## Motorised door



Passage length

1000 mm

Opening time

~ 3 - 4 sec.

- Single or double doors for visitor access, passage with baggage or goods, wheelchair access
- Bi-directional movement with opening angle of 90°
- For open escape routes in case of emergency
- It ideally completes the mTripod access control system
- Compact housing of drive and control systems in the central column
- Low impact forces ensure maximum safety of the user
- Free rotation in case of blackout
- Designed for 10 million opening and closing cycles



### TECHNICAL SPECIFICATIONS

Model	mSwing
Barrier element movement	90/180°
Barrier element material	Tempered glass
Opening and closing time	3 - 4 sec.
Number of people per minute *	30*
Passage length	Standard 1000mm
Dimensions (LxDxH)	183 x 168 x 1093
Housing material	Aluminum
Protection class	IP 54
Operating ambient temperature	-30°C ÷ +55°C
Power supply voltage	110 - 240 AC 50/60 Hz
Max. power	45 W
Barrier height	Half / Whole
Use frequency	100%
Weight	Approximately 40kg

\* The data depends greatly on the degree of familiarity that the person has with the system.



## FAMILY MODELS

Model	Item code
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mSwing FlowMotion® - version for glass panels (glass not included in this code)	FMSW_MG
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## PACKS

**mSwing includes:** MGC control system with 4 connectors for plug-in modules, BA103 Frame in the standard anthracite basalt color

## GLASS PANELS FOR MSWING

Product Description	Item code
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Panel in standard glass - 994 x 1000 mm (passage height x width)	FMSW_G10E950
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Panel in standard glass - 1800 x 1000 mm (passage height x width)	FMSW_G18E950
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## SPECIAL COLOUR

The customer can select his preferred color by referring to the color chart.

Product Description	Item code
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External tubular frame in a custom color, other elements in anthracite	SL103
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## MWING OPTIONS

### FRAME LIGHTING

LED lighting of the frame cover in red/green to display passage authorization.

Product Description	Item code
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LED lighting for the the frame cover in red/green	RLED103
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Power supply unit, (one VE100 can power all electrical options)	VE100
---	-------

### LOWER LIGHTING

LED floor lighting as a stylish light and as a supplementary flow indicator for users.

Product Description	Item code
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White LED floor lighting	BOLED103
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Power supply unit, (one VE100 can power all electrical options)	VE100
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ACOUSTIC SIGNAL

Acoustic signal for the additional indication of attempted forced passages, a random user control generator, and operational errors.

Product Description	Item code
Internal acoustic signal, pulse signal/continuous signal	ESU01

ETHERNET MODULE

Remote control and parameterization of mSwing FlowMotion® via IP

Product Description	Item code
Ethernet interface as a plug-in module	EM01

BUTTONS

Product Description	Item code
Emergency stop button	NT100

Bidirectional gate with swing doors



Passage length

600 mm ÷ 960 mm

Opening time

0.6 –1 s

- Ideal for high visitor flows thanks to its quick opening times
- Bidirectional opening for control of visitor accesses, passage with baggage
- Open gate mode for faster flow of visitors
- For a safe division between the controlled and uncontrolled area
- Low impact forces ensure maximum safety of the user
- Free rotation in case of blackout
- Designed for 10 million opening and closing cycles



TECHNICAL SPECIFICATIONS

Model	mWing
Barrier element movement	90/180°
Barrier element material	Tempered glass
Opening and closing time	0,6 - 1 sec.
Number of people per minute *	40*
Passage length	600 mm ÷ 960 mm
Dimensions (LxDxH)	180 x 1300 x 1050 mm
Housing material	mDure
Protection class	IP 54
Operating ambient temperature	-30°C ÷ +55°C
Power supply voltage	110 - 240 AC 50/60 Hz
Max. power	45 W
Barrier height	Half / Whole
Use frequency	100%
Weight	Approximately 120Kg per module

\* The data depends greatly on the degree of familiarity that the person has with the system.

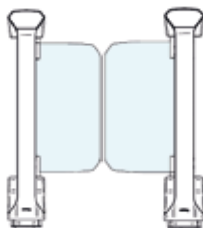
FAMILY MODELS

Model	Item code
See examples of gate configurations	

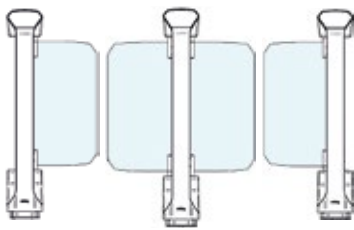
PACKS

**mWing includes:** MGC control system with 4 connectors for plug-in modules, BA102 Frame in the standard anthracite basalt color, GSIE102 Tempered glass side panel, FP100 Standard front plates (2 pieces), BP100 Fastening trim (4 pieces), GED107 Gate end display - Direction indication for both directions

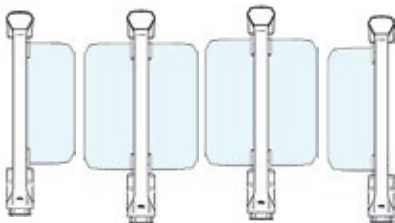
EXAMPLES OF GATE CONFIGURATIONS



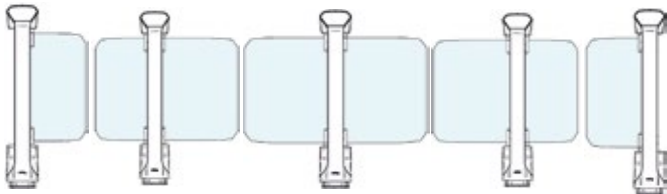
Single gate: A+B



Double gate: A+C+B



Multi gate: A+C+C+B






Multi gate with 600 mm and 900 mm widths:  
A+C+C+C+B




STANDARD GATE WIDTH (600 MM) DOOR H = 887

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Slave module "A"	FMWI_AL
	Panel in standard glass - 887 x 300 mm	FMWI_G10E600
	Pedestrian gate with FlowMotion® mWing swing doors, Master module "B"	FMWI_BL
	Panel in standard glass - 887 x 300 mm	FMWI_G10E600
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Standard glass panel - 879 x 300 mm (order 2 pcs.)	FMWI_G10E600




## STANDARD GATE WIDTH (600 MM) DOOR H = 1800

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Slave module "A"	FMWI_AL
	Panel in glass, standard height - 1800 x 300 mm	FMWI_G18E600
	Pedestrian gate with FlowMotion® mWing swing doors, Master module "B"	FMWI_BL
	Panel in glass, standard height - 1800 x 300 mm	FMWI_G18E600
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in glass, standard height - 1800 x 300 mm (order 2 pcs.)	FMWI_G18E600




## WIDE GATE WIDTH (900 MM), DOOR H = 887

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Slave module "A"	FMWI_AL
	Panel in glass, wide gate width - 887 x 450 mm	FMWI_G10E900
	Pedestrian gate with FlowMotion® mWing swing doors, Master module "B"	FMWI_BL
	Panel in glass, wide gate width - 887 x 450 mm	FMWI_G10E900
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in glass, wide gate width - 887 x 450 mm (order 2 pcs.)	FMWI_G10E900




## WIDE GATE WIDTH (900MM), DOOR H = 1800

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Slave module "A"	FMWI_AL
	Panel in glass, wide gate width, 1800 height - 1800 x 450 mm	FMWI_G18E900
	Pedestrian gate with FlowMotion® mWing swing doors, Master module "B"	FMWI_BL
	Panel in glass, wide gate width, 1800 height - 1800 x 450 mm	FMWI_G18E900
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in glass, wide gate width, 1800 height - 1800 x 450 mm (order 2 pcs.)	FMWI_G18E900


## XL WIDE GATE WIDTH (960 MM) DOOR H = 887

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Slave module "A"	FMWI_AL
	Panel in glass, wide gate width - 887 x 480 mm	FMWI_G10E960
	Pedestrian gate with FlowMotion® mWing swing doors, Master module "B"	FMWI_BL
	Panel in glass, wide gate width - 887 x 480 mm	FMWI_G10E960
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in glass, wide gate width - 887 x 480 mm (order 2 pcs.)	FMWI_G10E960


## XL WIDE GATE WIDTH (960 MM) DOOR H = 1800

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Slave module "A"	FMWI_AL
	Panel in glass, wide gate width - 1800 x 480 mm	FMWI_G18E960
	Pedestrian gate with FlowMotion® mWing swing doors, Master module "B"	FMWI_BL
	Panel in glass, wide gate width - 1800 x 480 mm	FMWI_G18E960
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in glass, wide gate width - 1800 x 480 mm (order 2 pcs.)	FMWI_G18E960


## TRANSITION MODULES FROM 600 MM GATE TO 900 MM GATE, DOOR H = 887

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in standard glass - 887 x 300 mm	FMWI_G10E600
	Panel in glass, wide gate width - 887 x 450 mm	FMWI_G10E900


## TRANSITION MODULES FROM 900 MM GATE TO 600 MM GATE, DOORS H = 887

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in standard glass - 887 x 300 mm	FMWI_G10E600
	Panel in glass, wide gate width - 887 x 450 mm	FMWI_G10E900

TRANSITION MODULES FROM 600 MM GATE TO 900 MM GATE, DOOR H = 1800

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in glass, standard height - 1800 x 300 mm	FMWI_G18E600
	Panel in glass, wide gate width, 1800 height - 1800 x 450 mm	FMWI_G18E900

TRANSITION MODULES FROM 900 MM GATE TO 600 MM GATE, DOORS H = 1800

	Product Description	Item code
	Pedestrian gate with FlowMotion® mWing swing doors, Central module "C"	FMWI_CL
	Panel in glass, standard height - 1800 x 300 mm	FMWI_G18E600
	Panel in glass, wide gate width, 1800 height - 1800 x 450 mm	FMWI_G18E900

MWING OPTIONS

SPECIAL COLOUR

The customer can select his preferred color by referring to the color chart.

Product Description	Item code
Custom color front and rear panel , other elements in anthracite	SL100

LIGHTING

FRAME LIGHTING

LED lighting of the frame edges in red/green with separate control of the entry and exit sides for fixed lighting or the display of passage authorization.

Product Description	Item code
Red/green LED lighting of the frame edges for mWing	RLED102
Power supply unit, (one VE107 can power all electrical options)	VE107

LOWER LIGHTING

LED floor lighting as a stylish light and as a supplementary flow indicator for users. It can be powered on/off with a digital input.

Product Description	Item code
White LED floor lighting for mWing	BOLED102
Power supply unit, (one VE107 can power all electrical options)	VE107

SIGNALING LED

Signaling LED for the random user control generator. The LED comes pre-mounted on the device.

Product Description	Item code
Red signaling LED for random user control generators	DLED100

## ACOUSTIC SIGNAL

Acoustic signal for the additional indication of attempted forced passages, of a random user control generator, and operational errors. Automatic reset after the preset time interval.

Product Description	Item code
Internal acoustic signal, pulse signal/continuous signal	ESU102

## ETHERNET MODULE

Remote control and parameterization of mWing FlowMotion® via IP

Product Description	Item code
Ethernet interface as a plug-in module	EM01

## OTHER ACCESSORIES

Product Description	Item code
Illuminated push button for passage authorization (for passage direction)	DT100
Standard support for badge reader to be affixed on the TOP	AVL100
Plate with RFID symbol (1 pc.)	FP104

## OTHER ACCESSORIES

Product Description	Item code
Emergency stop button	NT100

## ASSEMBLY KIT

The assembly kits contain fastening materials for the installation of mWing

Product Description	Item code
Assembly kit for installation on a finished floor	BSS100
FlowMotion glue cartridge for fastening the KPL100 to a finished floor	BSSKL100
Base plate for gluing FlowMotion to finished floors	KLP100
FlowMotion base frame	FURA100
Assembly kit for installing the FlowMotion gate on a base frame	BSSFURA100

## TABLE PANELS

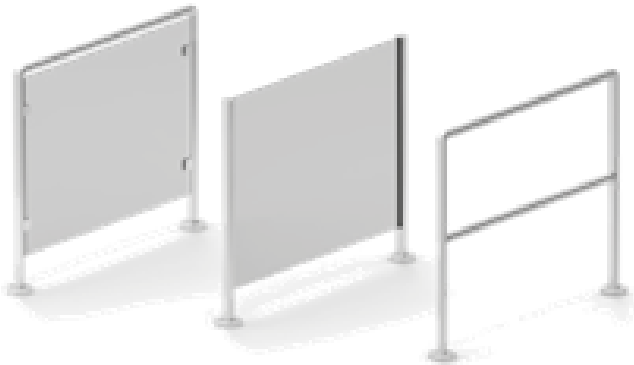
Product Description	Item code
Panel for desk, for 1 device	PG01
Panel for desk, for 2 devices	PG02
Panel for desk, for 3 devices	PG03
Panel for desk, for 4 devices	PG04



Railing system

Crush barrier lenght !da duplicazione!

Up to 1300 mm



- Separation of controlled areas from freely accessible areas
- Ideal supplement as a user guide system for pedestrian FlowMotion® gates
- The transparent and clear design is easily integrated into complex architectures
- Individually adaptable to the location of use thanks to the flexible width
- The safety glass offers maximum safety for the user



TECHNICAL SPECIFICATIONS

Model	mGuide
Crush barrier material	tempered glass / acrylic plastic having a thickness of 10mm
Crush barrier lenght !da duplicazione!	Up to 1300mm
Barrier height	1000m
Pole material	Stainless steel
Pole diameter	105 mm base - 42 mm rod

## FAMILY MODELS

### Model

See configurable guide elements

### Item code

## PACKS

Individually configurable guide elements with or without glass screens for installation along with the mTripod or as a barrier between controlled and free access areas.

## GUIDE WITHOUT HANDRAIL

- Stainless steel column
- Screen in single-layer safety glass (ESG) or laminated safety glass (VSG)
- Flexible width starting from 700 mm
- Dimensions: Height: 1000/1200/1500/1800 mm, Glass thickness: 10/11 mm (TSG/LSG)
- Column base diameter: 105 mm



## COLUMN FOR GUIDES

Product Description	Item code
Side column for glass panels, order 2pcs. (H = 1000 mm)	GGPA100
Side column for glass panels, order 2pcs. (heights greater than 1000 mm)	GGPA101
Central column for glass panels, order 1pc. (H = 1000 mm)	GGPM100
Central column for glass panels, order 1pc. (heights greater than 1000 mm)	GGPM101

## GLASS PANELS FOR GUIDE

Product Description	Item code
Tempered safety glass mGuide, L= 1300 mm /H=1000 mm	GGE100
Laminated safety glass mGuide, L= 1300 mm /H=1000 mm	GGV100
Tempered safety glass mGuide, L= 1300 mm /H=1200mm	GGE101
Laminated safety glass mGuide, L= 1300 mm /H=1200mm	GGV101
Tempered safety glass mGuide, L= 1300 mm /H=1500mm	GGE102
Laminated safety glass mGuide, L= 1300 mm /H=1500mm	GGV102
Tempered safety glass mGuide, L= 1300 mm /H=1800mm	GGE103
Laminated safety glass mGuide, L= 1300 mm /H=1800mm	GGV103
Tempered safety glass mGuide, L= X mm /H= X mm (max. H = 1800 mm / max. L = 1300 mm)	GGE10X
Laminated safety glass mGuide, L= X mm /H= X mm (max. H = 1800 mm / max. L = 1300 mm)	GGV10X

## FLOWMOTION GUIDE

Individually configurable guide elements for installation along with mTripod

Product Description	Item code
FlowMotion mGuide frame as guide element with BP100 in a standard color	GFM100
FlowMotion mGuide frame as guide element with BP100 in a special color	GFM1X0

## GUIDE WITH HANDRAIL WITH HALF-HEIGHT BAR

- Column, railing and half-height bar in stainless steel
- Flexible width from 700 mm
- Height dimensions: 870/1000 mm
- Column base diameter: 105 mm



### COLUMN FOR GUIDES

Product Description	Item code
Side column with seat for handrail and half-height bar, order 2 pcs. (H = 870mm)	GBAK100
Central column with seat for handrail and half-height bar, order 1 pc. (H = 870mm)	GBMK100
Side column with seat for handrail and half-height bar, order 2 pcs. (H = 1000mm)	GBAK101
Central column with seat for handrail and half-height bar, order 1 pc. (H = 1000mm)	GBMK101
Handrail/half-height bar for mGuide L=1300 mm, order 2 pcs.	GBHL100

## GUIDE WITH HANDRAIL AND GLASS

- Stainless steel column
- Screen in single-layer safety glass (ESG) or laminated safety glass (VSG)
- Flexible width from 700 to 1,300 mm
- Dimensions: Height: 870-1000 mm, Glass thickness: 10-11 mm (TSG/LSG)
- Column base diameter: 105 mm



### COLUMN FOR GUIDES

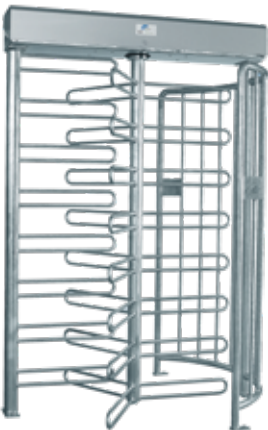
Product Description	Item code
Side column with seat for handrail and glass panel, order 2 pcs. (H = 870mm)	GBAF100
mGuide central column with handrail, glass panel	GBMF100
Column for both mGuide ends with handrail and glass panel (order 2 pcs.) 1000 mm	GBAF101
mGuide central column with handrail and glass panel - 1000 mm	GBMF101
Handrail, crossbar for mGuide - L = 1300 mm	GBHL100

### GLASS PANELS FOR GUIDES

Product Description	Item code
Tempered safety glass for mGuide inlay H = 870 mm L= 1300 mm	GBEF100
Laminated safety glass for mGuide inlay H = 870 mm L= 1300 mm	GBVF100
Tempered safety glass for mGuide inlay H = 1000 mm L= 1300 mm	GBEF101
Laminated safety glass for mGuide inlay H = 1000 mm L= 1300 mm	GBVF101
Tempered safety glass for mGuide inlay H = 870 mm L = X mm (max. L= 1300 mm)	GBEF100X
Laminated safety glass for mGuide inlay H = 870 mm L = X mm (max. L= 1300 mm)	GBVF100X
Tempered safety glass for mGuide inlay H = 1000 mm L = X mm (max. L= 1300 mm)	GBEF101X
Laminated safety glass for mGuide inlay H = 1000 mm L = X mm (max. L= 1300 mm)	GBVF101X

# MPT Single

## Full-height turnstile



Passage length

636 mm

Opening time

~ 2,5 sec.

- Structure in galvanised or powder coated painted steel or 304/316 STAINLESS steel
- When combined with the MPG module (swing gate) it can be used for wheelchairs, bicycles and goods deliveries
- Bidirectional
- Custom colors on request.
- Integrated Multifunctions Control Unit
- Free passage in case of power failure
- Various barrier elements available in a range of materials and surface finishes
- Designed for 10 million opening and closing cycles.



### TECHNICAL SPECIFICATIONS

Model	MPT SINGLE
Barrier element movement	3 x 120°
Barrier element material	Galvanized, powder coated steel or 316 stainless steel
Opening and closing time	~ 2,5 sec.
Number of people per minute *	20
Passage length	636 mm
Dimensions (LxDxH)	1510 x 1500 x 2235 mm
Housing material	Powder coated, galvanized steel or 316 steel
Protection class	IP 43
Operating ambient temperature	-25°C ÷ +55°C
Power supply voltage	110 - 240 AC 50/60 Hz
Max. power	50 W
Barrier height	whole
Use frequency	100%
Weight	250 kg

\* The data depends greatly on the degree of familiarity that the person has with the system.

## FAMILY MODELS

Model	Item code
MPT 33 (electromechanical)	
Hot-dip galvanized steel structure (uncoated)	MPT33C-A350G
hot-dip galvanized steel + powder coating in RAL7042 (alternatively RAL6005 or RAL7016)	MPT33C-A300G
Hot-dip galvanized steel structure (uncoated), with central rotor in SS316	MPT33C-A370G
hot-dip galvanized steel + powder coating in RAL7042 (alternatively 6005/7016), with central rotor in SS316	MPT33C-A340G
structure in SS304	MPT33C-A310G
structure in SS316	MPT33C-A320G
MPT 132 (motorized)	
Hot-dip galvanized steel structure (uncoated)	MPT-132C-A350
hot-dip galvanized steel + powder coating in RAL7042 (alternatively RAL6005 or RAL7016)	MPT-132C-A300
Hot-dip galvanized steel structure with central rotor in SS316	MPT-132C-A370
hot-dip galvanized steel + powder coating in RAL7042 (alternatively 6005/7016), with central rotor in SS316	MPT-132C-A340
structure in SS304	MPT-132C-A310
structure in SS316	MPT-132C-A320

## OPTIONS FOR MPT 33

Includes an MSC10 control unit, fastening kit and steel frame structure, 3 x 120° configuration (special 4 x 90° configuration available on request).

Product Description	Item code
Lock kit to control mechanical locking in the event of a power failure (1 kit required in each direction)	MAENT100
Lighting for MPT 30/33 consisting of 2 lamps and a support unit with photoelectric sensor	1031,5553
Lighting for MPT 30/33 consisting of 2 lamps and a support unit without photoelectric sensor	1031,5624

## OPTIONS FOR MPT 132

Includes MBC-110, MMC-121 control units and fastening kit, steel frame structure, 3 x 120° configuration.

Product Description	Item code
Mono directional electromechanical locking unit for MPT132 in case of power failure	1031,5304
Bidirectional electromechanical locking unit for MPT132 in case of power failure	1031,5305
Lighting for MPT132 consisting of 2 lamps and a support unit with photoelectric sensor	1031,5718
Lighting for MPT132 consisting of 2 lamps and a support unit without photoelectric sensor	1031,5723

## ACCESSORIES

Product Description	Item code
Special RAL color for MPT *3*-A300	
Special RAL color for MPT *3*-A340	
Second cage for advanced pedestrian guide, hot-dip galvanized (supplement)	2059,5160
Second cage for advanced pedestrian guide, hot-dip galvanized + powder coating in RAL7042 (alternatively 6005/7016) (supplement)	2059,5164
Canopy with drain formed by a shaped and powder-coated sheet metal cover, mounted on 4 galvanized steel pipes, length = 2000 mm, width = 2000 mm (width = measurement in direction of passage)	1008,5011
Special color for canopy 1008,5011	
Type A galvanized canopy for MPZ33/132/30, right or left tilt	1008,5136
Drip for type A canopy, drain outlet centered on the edge	1031,5792
Special color for type A canopy, RAL powder coating	
Type B galvanized canopy for MPT33/132/30, front or rear tilt with drip	1008,5137
Special color for type B canopy, RAL powder coating	
Type C galvanized canopy for 2 MPT33/132/30 flanked by drip, with crossbeams, internal right or external left drain outlet	1008,5138
Special color for type C canopy, RAL powder coating	
Type D galvanized canopy for MPT33/132/30 and MPG, with drip and crossbeams, internal right or external left drain outlet	1008,5139
Special color for type D canopy, RAL powder coating	
Housing for installation of access control units, steel sheet metal structure in RAL7042, without mounting plate	1045,5127
Housing for installation of access control units, steel sheet metal structure in RAL7042, with mounting plate	1045,5132
Housing for installation of access control units, polished SS316, without mounting plate	1045,5175
Special color for housing	
Base frame for MPT*3* without canopy adaptation, including adjustment screws, for standard size, 150 mm from foundation	1031,5292
Foundation frame for MPT*3* with canopy adaptation, including adjustment screws, for standard size, 150 mm from foundation	1031,5297
Foundation frame for MPT*3* with second cage, without canopy adaptation, for standard size, 150 mm from foundation	1031,5457
Foundation frame for MPT*3* with second cage and canopy adaptation, for standard size, 150 mm from foundation	1031,5489

# MPT Double

## Full-height turnstile



Passage length

636 mm

Opening time

~ 2,5 sec.

- Structure in galvanised or powder coated painted steel or 304/316 STAINLESS steel
- When combined with the MPG module (swing gate) it can be used for wheelchairs, bicycles and goods deliveries
- Bidirectional
- Custom colors on request.
- Integrated Multifunctions Control Unit
- Free passage in case of power failure
- Various barrier elements available in a range of materials and surface finishes
- Designed for 10 million opening and closing cycles.



### TECHNICAL SPECIFICATIONS

Model	MPT DOUBLE
Barrier element movement	3 x 120°
Barrier element material	Powder coated steel or 316 stainless steel
Opening and closing time	~ 2,5 sec.
Number of people per minute *	2 x 20
Passage length	636 mm
Dimensions (LxDxH)	2210 x1318 x 2235 mm
Housing material	Powder coated steel or 316 stainless steel
Protection class	IP 43
Operating ambient temperature	-25°C ÷ +55°C
Power supply voltage	110 - 240 AC 50/60 Hz
Max. power	50 W
Barrier height	whole
Use frequency	100%
Weight	450 kg

\* The data depends greatly on the degree of familiarity that the person has with the system.

## FAMILY MODELS

Model	Item code
MPT 53 (electromechanical)	
Hot-dip galvanized steel structure (uncoated)	MPT53C-A350G
hot-dip galvanized steel + powder coating in RAL7042 (alternatively RAL6005 or RAL7016)	MPT53C-A300G
Hot-dip galvanized steel structure (uncoated), with central rotor in SS316	MPT53C-A370G
hot-dip galvanized steel + powder coating in RAL7042 (alternatively 6005/7016), with central rotor in SS316	MPT53C-A340G
structure in SS304	MPT53C-A310G
structure in SS316	MPT53C-A320G
MPT 152 (motorized)	
Hot-dip galvanized steel structure (uncoated)	MPT-152C-A350
hot-dip galvanized steel + powder coating in RAL7042 (alternatively RAL6005 or RAL7016)	MPT-152C-A300
Hot-dip galvanized steel structure (uncoated), with central rotor in SS316	MPT-152C-A370
hot-dip galvanized steel + powder coating in RAL7042 (alternatively 6005/7016), with central rotor in SS316	MPT-152C-A340
structure in SS304	MPT-152C-A310
structure in SS316	MPT-152C-A320

## OPTIONS FOR MPT 53

Includes MSC10 control unit and fastening kit, steel frame structure, 3 x 120° configuration.

Product Description	Item code
Lock kit to control mechanical locking in the event of a power failure (1 kit required in each direction)	MAENT100
Lighting for MPT 50/53 consisting of 4 lamps and a support unit with photoelectric sensor	1031,5552
Lighting for MPT 50/53 consisting of 4 lamps and a support unit without photoelectric sensor	1031,5628

## OPTIONS FOR MPT 152

Includes MBC-110, MMC-121 control units and fastening kit, steel frame structure, 3 x 120° configuration.

Product Description	Item code
Mono directional lock kit (entry only or exit only) to control mechanical locking in case of power failure, (order 2pcs. for double turnstile), subsequent assembly only at the factory or by trained personnel	1031,5304
Bidirectional lock kit to control mechanical locking in case of power failure for both entry and exit (order 2pcs. for double turnstiles), subsequent assembly only at the factory or by trained personnel	1031,5305
Lighting for MPT152 consisting of 4 lamps and a support unit with photoelectric sensor	1031,5717
Lighting for MPT152 consisting of 4 lamps and a support unit without photoelectric sensor	1031,5727



## ACCESSORIES

Product Description	Item code
Special RAL color for MPT *5*-A300	
Special RAL color for MPT *5*-A340	
Canopy in shaped, powder-coated sheet metal, mounted on 4 galvanized steel pipes, length = 2910 mm, width = 2000 mm, (width = measurement in direction of passage)	1008,5012
Special color for canopy	
Type E galvanized canopy for MPT5x/152, with drip and crossbeams, internal right or external left drain outlet	1008,5140
Special color for type E Canopy, RAL powder coating	
Housing expansion for installation of access control units, steel sheet metal structure in RAL 7042, without mounting plate	1045,5127
Housing expansion for installation of access control units, steel sheet structure in RAL 7042, with mounting plate	1045,5132
Housing expansion for installation of access control units, polished SS316, without mounting plate	1045,5175
Special color for housing	
IP65 button for free exit	3601,0016
Base frame for MPT *5* without canopy adaptation, including adjustment screws, for standard size, 150 mm from foundation	1031,5293
Base frame for MPT *5* with canopy adaptation, including adjustment screws, for standard size, 150 mm from foundation	1031,5298

Motorised entrance gate with retractable  
leaf



Passage length

500 - 960 mm

Opening time

0,3 - 0,6 sec.

- The fastest pedestrian passage with retractable panels and maximum ease of use
- Ideal for use as a rapid separation high volume pedestrian access control solution
- INOX 304 stainless steel structure
- Also suitable for wheelchair access and goods deliveries
- MHTM drive technology
- Protection against climbing over / passing under the barrier
- Free passage in case of power failure
- Ergonomic design
- Designed for 10 million opening and closing cycles.



TECHNICAL SPECIFICATIONS

Model	MPR
Barrier element movement	retractable
Barrier element material	Polyurethane foam or acrylic
Opening and closing time	0,3 - 0,6 sec.
Number of people per minute *	> 60
Passage length	520 - 990 mm
Dimensions (LxDxH)	250x1300x1035 - 280x1300x1035 mm
Housing material	INOX 430/304/316
Protection class	IP 32
Operating ambient temperature	0°C ÷ +45°C
Power supply voltage	110 - 240 AC 50/60 Hz
Max. power	35 W / 117 W
Barrier height	Half
Use frequency	100%

\* The data depends greatly on the degree of familiarity that the person has with the system.

## FAMILY MODELS

### Model

### Item code

See examples of gate configurations

## PACKS

The product structure is in SS430 chromium stainless steel, with IP32 protection rating. The SS430 structure was designed for use in dry areas and environments without particular corrosion resistance requirements. For outdoor installation or in environments with advanced corrosion resistance requirements, the structure is also available in SS304 and SS316 stainless steel (price available on request). Each final module is equipped with an MHTM drive and an MMC motor controller. Intermediate and combination modules contain 2 drives and 2 motor controllers. The master module contains the MBC lane controller. Lanes are made up of several modules. The gate assumes a 50 mm space between the two wings. The modules are equipped with 4 light beams for security and control functions and have a display indicating the lane passage direction [red cross/green arrow, gate end display (GED)].

## EXAMPLES OF GATE CONFIGURATIONS

### GATE: 520 MM / HOUSING WIDTH: 250 MM - SS430 STAINLESS STEEL HOUSING

Standard gate with a 50 mm space between the wings. The wings are available in soft PUR foam or acrylic.

Product Description	Item code
A - End module (left), with 1 GED (gate end display), door in PUR	MPR-112A-A131
A - End module (left), with 1 GED (gate end display), door in acrylic	MPR-112A-A331
B - End module (right), with MBC Lane Controller + 1 GED, door in PUR	MPR-112B-A131
B - End module (right), with MBC Lane Controller + 1 GED, door in acrylic	MPR-112B-A331
C - Intermediate module, with 2 MBC Controllers + 2 GEDs, door in PUR	MPR-112C-A131
C - Intermediate module, with 2 MBC Controllers + 2 GEDs, door in acrylic	MPR-112C-A331
D - Intermediate module, with 2 GEDs (gate end display), door in PUR	MPR-112D-A131
D - Intermediate module, with 2 GEDs (gate end display), door in acrylic	MPR-112D-A331

### GATE: 520 MM / HOUSING WIDTH: 250 MM - SS304 STAINLESS STEEL STRUCTURE

Standard gate with a 50 mm space between the wings. The wings are available in soft PUR foam or acrylic.

Product Description	Item code
A - End module (left), with 1 GED (gate end display), door in PUR	MPR-112A-A111
A - End module (left), with 1 GED (gate end display), door in acrylic	MPR-112A-A311
B - End module (right), with MBC Lane Controller + 1 GED, door in PUR	MPR-112B-A111
B - End module (right), with MBC Lane Controller + 1 GED, door in acrylic	MPR-112B-A311
C - Intermediate module, with 2 MBC Controllers + 2 GEDs, door in PUR	MPR-112C-A111
C - Intermediate module, with 2 MBC Controllers + 2 GEDs, door in acrylic	MPR-112C-A311
D - Intermediate module, with 2 GEDs (gate end display), door in PUR	MPR-112D-A111
D - Intermediate module, with 2 GEDs (gate end display), door in acrylic	MPR-112D-A311

### GATE: 960 MM / HOUSING WIDTH: 280 MM - SS430 STAINLESS STEEL STRUCTURE

Wide passage for transit of prams/strollers, wheelchairs or bulky goods. The width of these pedestrian barriers requires the use of telescopic wings in soft PUR foam.

Product Description	Item code
A - End module (left), with 1 GED (gate end display)	MPR-112A-A232
B - End module (right), with an MBC Lane Controller + 1 GED	MPR-112B-A232
C - Intermediate module, with 2 MBC Controllers + 2 GEDs	MPR-112C-A232
D - Intermediate module, with 2 GEDs (gate end display)	MPR-112D-A232

### GATE: 960 MM / HOUSING WIDTH: 280 MM - SS304 STAINLESS STEEL STRUCTURE

Wide passage for transit of prams/strollers, wheelchairs or bulky goods. The width of these pedestrian barriers requires the use of telescopic wings in soft PUR foam.

Product Description	Item code
A - End module (left), with 1 GED (gate end display)	MPR-112A-A212
B - End module (right), with an MBC Lane Controller + 1 GED	MPR-112B-A212
C - Intermediate module, with 2 MBC Controllers + 2 GEDs	MPR-112C-A212
D - Intermediate module, with 2 GEDs (gate end display)	MPR-112D-A212

## TRANSITION MODULE FOR GATES FROM 520 MM TO 960 MM - SS430 CHROMIUM STEEL HOUSING

Product Description	Item code
E - Transition module, with 2 MBC Controllers + 2 GEDs	MPR-112E-A432
F - Transition module, with 2 GEDs (gate end display)	MPR-112F-A432

## TRANSITION MODULE FOR GATES FROM 520 MM TO 960 MM - SS304 STAINLESS STEEL HOUSING

Product Description	Item code
E - Transition module, with 2 MBC Controllers + 2 GEDs	MPR-112E-A412
F - Transition module, with 2 GEDs (gate end display)	MPR-112F-A412

## ACCESSORIES

Product Description	Item code
Upgrade with 1 pair of additional photocells per module with direction logic, direction detection, counting function and pulse memory in opening as a function of direction, for end modules (A/B)	
Upgrade with 1 pair of additional photocells per side with direction logic, direction detection, counting function and pulse memory in opening as according to the direction, for intermediate modules (C/D)	
Upgrade with 1 pair of additional photocells per side with direction logic, direction detection, counting function and pulse memory in opening as a function of direction, for transition modules (E/F)	

Motorised entrance gate with sliding leaf

Passage length

500 - 960 mm

Opening time

0,6 - 1,4 sec.



- Structure made of 304 stainless steel, 1200mm to 1800mm high tempered glass leaves
- Ideal for use as a rapid separation high volume pedestrian access control solution
- Also suitable for wheelchair access and goods deliveries
- MHTM drive technology
- Protection against climbing over / passing under the barrier
- Free passage in case of power failure
- Ergonomic design
- Designed for 10 million opening and closing cycles.



TECHNICAL SPECIFICATIONS

Model	MPH
Barrier element movement	retractable
Barrier element material	Tempered glass
Opening and closing time	0,6 - 1,4 s
Number of people per minute *	> 60
Passage length	520 - 910 mm
Dimensions (LxDxH)	300 x 1300 x 1035 mm - 520 x 1300 x 1035 mm
Housing material	INOX 304
Protection class	IP 32
Operating ambient temperature	0°C ÷ +45°C
Power supply voltage	110/240 AC 50/60 Hz
Max. power	100 W /300 W
Barrier height	Half / Whole
Leaves height	1200 - 1500 - 1800 mm
Use frequency	100%
Weight	~ 200 /275 Kg

\* The data depends greatly on the degree of familiarity that the person has with the system.

## FAMILY MODELS

Model	Item code
See examples of gate configurations	

## PACKS

The MPH structure is in SS304 stainless steel. Each module is equipped with an integrated anti-access guard in hardened safety steel. These glass panels are available in 3 different heights. Laminated safety glass upon request. Eight light beams at each passage point guarantee perfect pedestrian detection. The unit status is indicated by the LED display at the gate end on the front of the structure.

## EXAMPLES OF GATE CONFIGURATIONS

### GATE: 520 MM / HOUSING WIDTH: 300 MM / GATE LENGTH: 1300 MM

The standard gate includes a space of 50 mm between the two glass doors.

Product Description	Item code
A - Base module, including 1 front plate, 1 GED, glass door and anti-access guard, height: 1200 mm	MPH-112A-A111
A - Base module, including 1 front plate, 1 GED, glass door and anti-access guard, height: 1500 mm	MPH-112A-A111
A - Base module, including 1 front plate, 1 GED, glass door and anti-access guard, height: 1800mm	MPH-112A-A111
B - End module, including 1 front plate, MBC Lane Controller and 1 GED, glass door and anti-access guard, height: 1200 mm	MPH-112B-A111
B - End module, including 1 front plate, MBC Lane Controller and 1 GED, glass door and anti-access guard, height: 1500 mm	MPH-112B-A111
B - End module, including 1 front plate, MBC Lane Controller and 1 GED, glass door and anti-access guard, height: 1800 mm	MPH-112B-A111
C - Intermediate module, including 2 front plates, MBC Lane Controller and 2 GEDs, glass door and anti-access guard, height: 1200 mm	MPH-112C-A111
C - Intermediate module, including 2 front plates, MBC Lane Controller and 2 GEDs, glass door and anti-access guard, height: 1500 mm	MPH-112C-A111
C - Intermediate module, including 2 front plates, MBC Lane Controller and 2 GEDs, glass door and anti-access guard, height: 1800 mm	MPH-112C-A111

### GATE: 910 MM / HOUSING WIDTH: 520 MM / GATE LENGTH: 1300 MM

A larger gate is necessary for the passage of prams/strollers, wheelchairs or bulky goods.

Product Description	Item code
A - Base module, including 1 front plate, 1 GED, glass door and anti-access guard, height: 1200 mm	MPH-112A-A211
A - Base module, including 1 front plate, 1 GED, glass door and anti-access guard, height: 1500 mm	MPH-112A-A211
A - Base module, including 1 front plate, 1 GED, glass door and anti-access guard, height: 1800mm	MPH-112A-A211
B - End module, including 1 front plate, MBC Lane Controller and 1 GED, glass door and anti-access guard, height: 1200 mm	MPH-112B-A211
B - End module, including 1 front plate, MBC Lane Controller and 1 GED, glass door and anti-access guard, height: 1500 mm	MPH-112B-A211
B - End module, including 1 front plate, MBC Lane Controller and 1 GED, glass door and anti-access guard, height: 1800 mm	MPH-112B-A211
C - Intermediate module, including 2 front plates, MBC Lane Controller and 2 GEDs, 2 glass doors and anti-access guard, height: 1200 mm	MPH-112C-A211
C - Intermediate module, including 2 front plates, MBC Lane Controller and 2 GEDs, 2 glass doors and anti-access guard, height: 1500 mm	MPH-112C-A211
C - Intermediate module, including 2 front plates, MBC Lane Controller and 2 GEDs, 2 glass doors and anti-access guard, height: 1800 mm	MPH-112C-A211

TRANSITION MODULE FOR GATES FROM 520 MM TO 910 MM OR 910 MM TO 520 MM

Housing width: 520 mm, housing length: 1300 mm

Product Description	Item code
E - Transition module, including 2 front plates, MBC Lane Controller and 2 GEDs, 2 glass doors and 1 anti-access guard, height: 1200 mm	MPH-112E-A211
E - Transition module, including 2 front plates, MBC Lane Controller and 2 GEDs, 2 glass doors and 1 anti-access guard, height: 1500 mm	MPH-112E-A211
E - Transition module, including 2 front plates, MBC Lane Controller and 2 GEDs, 2 glass doors and 1 anti-access guard, height: 1800 mm	MPH-112E-A211
F - Transition module, including 2 front plates, MBC Lane Controller and 2 GED, 2 glass doors and 1 anti-access guard, height = 1200 mm	MPH-112F-A211
F - Transition module, including 2 front plates, MBC Lane Controller and 2 GED, 2 glass doors and 1 anti-access guard, height = 1500mm	MPH-112F-A211
F - Transition module, including 2 front plates, MBC Lane Controller and 2 GED, 2 glass doors and 1 anti-access guard, height = 1800mm	MPH-112F-A211

## Leaf motorized entrance gate

Passage length

1451 mm

Opening time

3 sec.



- Structure made of 304 stainless steel, 1200mm to 1800mm high tempered glass leaves
- Ideal for use as a rapid separation high volume pedestrian access control solution
- Also suitable for wheelchair access and goods deliveries
- MHTM drive technology
- Protection against climbing over / passing under the barrier
- Free passage in case of power failure
- Ergonomic design
- Designed for 10 million opening and closing cycles.



### TECHNICAL SPECIFICATIONS

Model	MPG 162	MPG 172
Barrier element movement	90/180°	
Barrier element material	Powder coated steel or 316 stainless steel	
Opening and closing time	3 sec.	
Number of people per minute *	20	
Passage length	1087 mm	1070 mm
Dimensions (LxDxH)	1451 x 500 x 2235 mm	1623 x 500 x 2235 mm
Housing material	Powder coated steel or 316 stainless steel	
Protection class	IP 43	
Operating ambient temperature	- 25 °C ÷ +50°C	
Power supply voltage	110-240 VAC, 50/60 Hz	
Max. power	50 W	
Barrier height	Whole	
Use frequency	100%	
Weight	220 Kg	250 Kg

\* The data depends greatly on the degree of familiarity that the person has with the system.



## FAMILY MODELS

Model	Item code
MPG-162 (in combination with the MPTx full height turnstile)	
Hot-dip galvanized steel structure (uncoated)	MPG-162C-A150
Hot-dip galvanized steel + powder coating in RAL7042 (alternatively RAL6005 or RAL7016)	MPG-162C-A100
Hot-dip galvanized steel structure with a SS316 door	MPG-162C-A170
Hot-dip galvanized steel + powder coating in RAL7042 (alternatively RAL6005 or RAL7016) with a SS316 door	MPG-162C-A140
Structure in SS304	MPG-162C-A110
Structure in SS316	MPG-162C-A120
MPG-172 ("Stand alone" version)	
Hot-dip galvanized steel structure (uncoated)	MPG-172C-A150
hot-dip galvanized steel + powder coating in RAL7042 (alternatively RAL6005 or RAL7016)	MPG-172C-A100
Hot-dip galvanized steel structure (uncoated), with a SS316 door	MPG-172C-A170
Hot-dip galvanized steel + powder coating in RAL7042 (alternatively 6005/7016), with a SS316 door	MPG-172C-A140

## OPTIONS FOR MPG-162

Includes an MBC-110 control unit and fastening kit; steel frame structure.

Product Description	Item code
Locking device, locked without power supply (please indicate in the order)	1031,5343
Locking device, unlocked without power supply (please indicate in the order)	1031,5342
Special RAL color for MPG-162C-A100	
Special RAL color for MPG-162C-A140	
Lighting for MPT 3* with MPG 162, 4 lamps without photoelectric sensor	1031,5727
Lighting for MPT 3* with MPG 162, 4 lamps with photoelectric sensor	1031,5717
Canopy for MPT3* with MPG-162, made of shaped and powder-coated sheet metal, length = 3451 mm, width = 2634 mm, (width = measurement of direction of passage)	1008,5050
Special color for canopy 1008, 5050	
Type D galvanized canopy for MPT33/132/30 and MPG, with drip and crossbeams, internal right or external left drain outlet	1008,5139
Special color for type D canopy, RAL powder coating	
Expansion of base frame kit for MPG-162 without induction loops	1031,5376
Expansion of base frame kit for MPG-162 with 2 induction loops	1031,5371
Expansion of base frame kit for pitched-roof MPG-162 without induction loops	1031,5378
Expansion of foundation frame kit for pitched-roof MPG-162 with 2 induction loops	1031,5257

Includes an MBC-110 control unit and fastening kit; steel frame structure.

Product Description	Item code
Locking device, locked without power supply (please indicate in the order)	1031,5343
Locking device, unlocked without power supply (please indicate in the order)	1031,5342
MPG-172 lighting, 2 lamps without photoelectric sensors	1031,5723
MPG-172 Lighting, 2 lamps with photoelectric sensors	1031,5718
Canopy for MPG-172, made of shaped and powder-coated sheet metal, length = 2000 mm, width = 2634 mm (width = measurement of direction of passage)	1008,5053
Special color for canopy 1008, 5053	
Expansion of base frame kit for MPG-172 without induction loops	1031,5373
Expansion of base frame kit for MPG-172 with 2 induction loops	1031,5380
Expansion of base frame kit for pitched-roof MPG-172 without induction loops	1031,5381
Expansion of foundation frame kit for pitched-roof MPG-172 with 2 induction loops	1031,5383

# WARRANTY CONDITIONS

# GENERAL CONDITIONS OF SALE

## 1. OBJECT AND SCOPE

1.1. These "General Terms and Conditions of Sale" (hereinafter, the "**Conditions**") apply to any and all sale or supply agreements (hereinafter, jointly defined, the "**Contracts**" and, individually, the "**Contract**") executed between FAAC S.p.A. soc. Unipersonale, (hereinafter, "**FAAC**"), as vendor, and the direct client of FAAC, as purchaser (hereinafter, jointly defined, the "**Clients**" and, individually, the "**Client**"), which concerns the products manufactured and/or sold by FAAC, including but not limited to automations for barriers, doors, gates, tubular, traffic bollards, access control software and their accessories (hereinafter, jointly defined, the "**Products**" and, individually, the "**Product**"). These General Conditions, therefore, apply only towards the Clients and don't extend to third parties.

1.2. The final user (hereinafter, the "**Final User**") to whom the Products are sold and/or installed must exclusively contact its own retailer for any warranty. It's expressly understood that, if the Final User is a "consumer", the warranty will be regulated by European laws for the consumer protection.

1.3. Except as provided in these Conditions, the right of recourse of the seller/retailer and/or the Client to FAAC is expressly excluded.

1.4. If the Client or the retailer also performs the installation of the Products, he must guarantee the correct installation, the connected activities (i.e. building works and electrical works) and the compliance with the local laws (if any) on safety, releasing all the necessary documentation.

## 2. PREVALENCE

2.1. In the event of any discrepancies between the provisions of this Conditions and those provided for in the Contract, the provisions of the Contract shall prevail, if agreed in writing.

2.2. In no case shall any general conditions of contract of the Client will be binding on FAAC, even if mentioned or included in orders or in any other documents transmitted by the Client to FAAC. No conduct of FAAC shall be interpreted or used to express tacit acceptance of FAAC to the general condition of contract of the Client. Therefore, all Contracts, offers, acceptance of orders and all deliveries by FAAC shall be deemed to have been made pursuant to the following General Conditions, except as otherwise expressly provided in writing by FAAC.

## 3. EXECUTION OF THE CONTRACT, TOLERANCES

3.1. Except as expressly indicated in point 3.3 below, the Contracts between FAAC and the Client may be concluded as follows:

(A) by signing a written agreement drafted in a sole document, being understood that, in this case, the Contract is deemed concluded when the last signature has been affixed;

(B) by the exchange of document (by @mail or, in general, any electronic/informatics tools), as follows: (i) the Client sends a purchase order (hereinafter, the "**Purchase Order**") to FAAC containing indication of the Products, the quantity requested, the delivery terms, information regarding their use, and all the technical data necessary to identify the specifications of the Products (ii) FAAC sends to the Client its written acceptance (hereinafter, "**Order Confirmation**"), being understood that FAAC shall, at its sole discretion, be entitled to accept or refuse the purchase orders of the Client. In this case, the Contract will be considered executed once the Client receive the Order Confirmation; or

(C) by the exchange of the documents as follows: (i) FAAC sends to the Client an offer, having legal value as a proposal, in which it specifies as, but not limited to, the exact identification of the Products, the quantity, prices, and terms of delivery and payment (hereinafter, the "**Offer**"), and (ii) the Client signs the Offer in acceptance and returns it to FAAC, this last document having a legal acceptance value (hereinafter, the "**Acceptance**"). In this case, the Contract is concluded at the conditions set forth in the Offer upon receipt by FAAC of the written Acceptance. It is expressly understood that Acceptance by the Client must reach FAAC within the period of validity of the Offer indicated therein or the Offer loses all validity.

3.2. The Contract cannot be cancelled by the Client, except with the written consent of FAAC and reimbursement by the Client of any loss, cost, or damage suffered by FAAC because of the cancellation by the Client.

3.3. It is expressly understood that the execution of the Contract by FAAC is conditioned to the obligation of the Client to pay any previous invoices issued by FAAC and not paid by the Client in terms.

## 4. SELLING PRICE OF THE PRODUCTS

4.1. Unless otherwise agreed in writing by FAAC and the Client, the prices applicable to each sale/supply of Products are indicated in FAAC's price list in force as of the date of conclusion of the Contract (hereinafter "**Selling Price**"), and the Selling Price is expressed in EURO.

4.2. The Selling Price, as well as any discounts applied by FAAC, shall be intended net of VAT and are subject to changes during the validity of FAAC's price list.

4.3. The Selling Price is intended "FCA" (in accordance to the most recent edition of the ICC'S Incoterms) – at FAAC's place of business in Zola Predosa (Bologna – Italy) or at other FAAC's storages – VAT and shipping cost excluded.

## 5. PAYMENT

5.1. Except as otherwise agreed in writing, payment for all Products shall be effected by means of:

(A) An irrevocable letter of credit ("**L/C**"), confirmed by a primary International bank, which has an official branch in the Client's country, in compliance with publication 500 of the International Chamber of Commerce as updated from time to time, and valid for at least 30 days from the anticipated date of final delivery; or in alternative,

(B) a bank wire transfer in accordance to the payment terms as agreed in writing by FAAC and the Client.

5.2. Delivery of the Products is conditional upon the issuing of the above L/C's or the payment of the price by any other means, which may have otherwise been authorised in writing by FAAC. Regardless of the means of payment agreed upon, it is understood that payments shall be deemed to have been effected at FAAC's place of business.

5.3. Under no circumstance shall the Client be entitled to suspend and/or delay payment of the Products or raise any claim in relation thereto until full payment has been made. In the event of any payment, FAAC shall be entitled to exercise its right provided under the laws in force where the Client is established in relation to late payment in commercial transaction, without prejudice to its right to seek any further damages. In any event, FAAC may, (i) terminate the Contract in relation to the Products not yet delivered and/or (ii) delay the carrying out of any order in hand, inter alia, by suspending delivery of the Products until such time as all outstanding debts owed by the Client to FAAC have been paid.

## 6. OTHER EXPENSES AND DUTIES

6.1. Unless otherwise agreed between FAAC and the Client, the price applied to any sale of Products are for delivery "FCA" (in accordance to the most recent edition of the ICC'S Incoterms) at FAAC's place of business in Zola Predosa (Bologna – Italy) or at other FAAC's storages, therefore FAAC shall not enter into any shipment or transportation agreement and shall not insure the Products, unless the Client should so expressly instruct FAAC in writing, being understood in any event that any and all risk and expenses in relation thereto shall be borne exclusively by the Client.

6.2. The Client agrees promptly to collect the Products upon receiving notice that the Products are ready and at its disposal and, in any event, within 8 (eight) days of the date of said notice.

6.3. Any and all taxes, duties, levies, licenses, authorisation, permits and any and all tax and administrative formalities relating to the importation and/or resale of the Products shall be borne and carried out exclusively by the Client or, alternatively, they may be carried out by FAAC at the Client's sole risk, expense and responsibility.

6.4. Standard packing of the Products suitable for air, land and sea transportation in container will be provided by FAAC free of charge. If the Client requires any special packing, the full cost of said special packing shall be invoiced by FAAC to the Client.

## 7. DELIVERY

7.1. All the delivery dates given by FAAC shall be deemed as indicative, not binding and are expressed in working days. In any event of late delivery, the Client shall not be entitled to cancel the Contract or to any compensation for damages of whatever nature.

7.2. Unless otherwise agreed between FAAC and the Client, the Products shall be delivered "FCA" (in accordance to the most recent edition of the ICC's Incoterms) at FAAC's place of business in Zola Predosa (Bologna – Italy) or at other FAAC's storages.

## 8. QUALITY STANDARDS

8.1. FAAC does not represent or guarantee the Client that the Products comply with the applicable laws and regulations in force in the country where the Client is established or where the Products are to be sold and/or delivered and/or installed. FAAC shall have no obligation to modify the Product in compliance with said laws or regulations and the Client shall be solely responsible for ensuring that the Product and any services of the Client conform to the applicable technical and safety standards, laws, and regulations in force in that country.

8.2. The Client, moreover, acknowledges that the Products may be dangerous to persons or property when not installed or not used in strict compliance with the instructions for installation and use supplied by FAAC and with the safety requirements specified in the technical standards. FAAC expressly disclaims liability for any personal injury or property damage resulting from installation or use of the Products, other than in strict compliance with FAAC's written instructions with respect to installation and use, or from installation or use of the Products together with safety accessories or other Products not manufactured by FAAC, being understood that the maximum liability of FAAC to the Client arising out of or in connection with the Product and based on a claim of breach or under the warranty, shall in no case exceed the price paid to FAAC for the Product which gives rise to the claim and, therefore, in no event FAAC shall not be liable also for special and consequential damages including, without limitation, loss of profits and indirect damages.

## 9. WARRANTY

9.1. FAAC warrants and guarantees to the Client that all new Products shall be free from manufacturing defects, under normal use and service, for a period of (i) 30 (thirty) months from the manufacturing date (as shown on the tag plate of each Product) for all Products other than Tubular Motor (the **"Warranty Period for Products other than Tubular Motor"**); and (ii) 5 (five) years from the manufacturing date (as shown on the tag plate of each Product) for all Products included in the tubular motor range (the **"Warranty Period Tubular Motor"**).

9.2. The Client acknowledges and agrees that FAAC's warranty is expressly limited to manufacturing defects and that said warranty shall not extend to any damage to the Products resulting from other causes, including, without limitation, misuse, transportation, or faulty installation thereof. The maximum liability of FAAC to the Client, arising out of or in connection with the Products in question and based on a claim of breach or repudiation of warranty, shall in no case exceed the price paid to FAAC for the Product(s) in question and, in addition, FAAC shall not be liable also for special and consequential damages of the Client including, without limitation, loss of profits and indirect damages. Should FAAC be in breach of its representation and warranty under this article 9, FAAC's entire liability and the Client's exclusive remedy shall be the repair or replacement of the defective part Product free of charge at FAAC's own workshop unless otherwise agreed in writing between FAAC and the Client. The Client shall send the part to be repaired or replaced, free of charge, and FAAC shall examine said part to determine whether it is defective and whether the manufacturer is responsible for the defect; in which case only FAAC shall repair or replace the part, in its sole discretion, and shall send the repaired or replacement part to the Client who shall bear the cost of transportation and installation only. Any Products which may have been returned without FAAC's written authorisation shall not entitle the Client to any credit notes or reimbursement. In any event, any and or risk and expenses relating to the return of the Products shall be born exclusively by the Client. Any claims relating to the defects of the Product in question, must be sent to FAAC by registered letter with return receipt requested or by @mail or, in general, any electronic/informatics tools within 8 (eight) days following the receiving date of the Product in the case of evident defects; and 8 (eight) days

following the date of discovery in the case of latent defects and in any event, within the Warranty Period for Products other than Tubular Motor and/or the Warranty Period Tubular Motor, failing which the Client shall lose all right to bring any claim in relations thereto. Any and all further or other warranties, are they expressed or implied, including without limitation any warranties provided by law, shall be deemed excluded and superseded by these conditions. FAAC further disclaims all expressed, statutory, or implied warranties applicable to Products and accessories which are not manufactured by it.

9.3. Unless otherwise agreed between FAAC and the Client, (i) the Product, repaired or replaced, will sent to the Client in full charge of the Client (FCA); (ii) warranty intervention does not extend the original warranty period of the Product and does not initiate a new warranty period for the repaired or replaced part; (iii) the repaired or replaced part will be owned by FAAC; (iv) the Customer will lose the warranty if he does not pay the invoices.

9.4. Warranty excludes the damages connected to: (i) transport; (ii) faults and/or negligence and/or inadequacy of the installation and of the use of the electrical system; (iii) tampering by unauthorized personnel or the use of components and / or nonoriginal spare parts; (iv) defects caused by chemical agents or atmospheric and / or natural phenomena in general; (v) the installation of the Products not according to the rules of the art, safety and compliance of use expressly indicated in the technical documentation of the same Products. Furthermore, warranty not include (vi) the consumables; (vii) interventions for verification of any faults not found; (viii) compensation for the period of inactivity of the plant where the Products are installed.

## 10. TITLE

10.1. Title to the Products shall pass to the Client only upon payment in full of the sale price of the Products. In the event of default by the Client, FAAC shall be entitled, without any formalities, including notice of default, to repossess all of the Products with respect to which title has not yet passed to the Client, wherever said Products may be; in addition, FAAC reserve the right to seek any other judicial remedies available to it in respect of the damages suffered.

## 11. PRIVACY

11.1. Under the clause 13 of the del Regulation (UE) 2016/679, FAAC, as data controller (hereinafter, the "Data Controller"), inform the Client that all the data disclosed by the Client in the performance of the Contract which is personal shall be processed according to such Regulation 2016/679 and, therefore, declare as follows: (a) the processing of data will be carried out, in compliance with such Regulations, by means of paper, computer or telematics means capable of storing, managing, transmitting the data itself, however by means of suitable means to guarantee their security and confidentiality; (b) the objective of the processing will be related and instrumental to the conclusion, management and execution of the General Conditions and the Contracts and for any administrative and accounting purposes connected with them (for example, but not limited to, handling of orders and invoices, drafting contracts including credit insurance; assignment of claim agreement; transportation and/or shipment agreement; etc.); for marketing purposes related to similar products to those already acquired, because it is a lawful interest of FAAC (under clause 6, Regulation 2016/679); for purposes related to the enforcement of legal obligations, regulations, Italian and UE regulations, as well as to order of competent Authority; (c) the transfer of the data is mandatory for all that is required by legal and contractual obligations and therefore any refusal by the Client to communicate the data or to enable it to be processed subsequently may cause the impossibility for FAAC to give rise to the obligations of the Contract; the transfer is discretionary for marketing activities; (d) the data will not be disclosed, but can be communicated exclusively for the above purposes, to the appropriate authorized persons for which will be necessary to make such communication for the purposes set out in the above letter (b), such as the other companies in the group to which FAAC belongs; (e) the Client has the right to access to its personal data, emend, cancel, limit the processing, to oppose, in addition to the right to portability, by submitting formal requests directly to the Data Controller; the Client has also the right to make a claim to the supervisory Authorities; (f) the data will be stored for commercial and marketing purposes for all the duration of the commercial relationship between FAAC and the client; after for the sole law's purpose; (g) the Data Controller is FAAC, Via Calari n. 10, Zola Predosa, Bologna – Italy.

## 12. FORCE MAJEURE

12.1. FAAC shall not be liable or reasonable to the Client for any failure or delay in performing of fulfilling any obligations undertaken in reference to the supply of the Product when such failure or delay is caused by occurrences beyond FAAC's reasonable control, or in any case caused by an event of force majeure, including, but not limited to, late delivery or nondelivery of materials by suppliers, strikes and other trade union actions, terrorist activities, suspension of electrical energy or difficulties in transportation. In the event of such events, the activities which cannot be performed shall be automatically postponed, without any penalty for FAAC, for a period equal to the situation of force majeure.

## 13. APPLICABLE LAW AND DISPUTE RESOLUTIONS

13.1. Unless provided at art. 13.2 below, any dispute that may arise in relation to the interpretation, performance, execution, validity and/or dissolution of the Contracts and/or connected to the Contracts, will be exclusively governed to the Italian laws - with the express exclusion of the 1980 Vienna Convention - and, the Court of Milan will have exclusive jurisdiction.

13.2. Any dispute related to and/or connected to breach of the obligations set forth in the art. 5 of this Condition will be exclusively governed to the Client's national laws - with the express exclusion of the 1980 Vienna Convention - and the competent Court will be the court where the Client is established.

## 14. OTHER

14.1. The invalidity or unenforceability of any provision, or portion thereof, of this Conditions shall not affect the validity or enforceability of any other provision.

14.2. Any failure by FAAC to enforce any of its rights under this General Conditions shall not be construed as a waiver of said rights.

14.3. This General Conditions supersede any prior agreement, whether written or oral, between FAAC and the Client, with respect to the subject matter.

14.4. Any amendment to this General Conditions shall be effective only if made in writing and duly signed by the FAAC and the Client.

14.5. Any software contained in the Products is the property of FAAC and is licensed free of charge and under non-exclusive basis, unless otherwise agreed in writing between the parties.

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