Electrically controlled panic exit systems 2008
Electrically controlled panic exit systems

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Safety and Security

Public buildings like most industrial and commercial premises are required to meet both the conflicting need for both safety and security. The JPM access control panic bars are designed to provide not only safe and effective escape through a doorway but to satisfy the need to secure property and contents.

Available in several versions according to the applications and the needs of the site: blocking, motorised dogging, with door monitoring.

These models ensure security and prevention of unauthorised use of exit doors.

Applications

Emergency Exit Doors in establishments open to the public which are locked electrically as hospitals, retirement homes, museums, educational establishments, supermarkets and retail stores.

Emergency doors in banks, administration buildings and industrial sites.

Isolated doors or doors functioning autonomously with “break glass” box and connected to the buildings smoke or fire detection system.
**Applications**

**Blocking Function (Failsafe)**
Ensuring exit control by Electro-mechanical locking of the push bar, a magnet locks the push bar, push bar unlocks on interruption of power supply and reverts to mechanical panic bar ensuring immediate exit.

**Electric Latch Retracting ELR**
Ensures access control through motorisation of the push bar retracts the bolt or the vertical latches, for free access for a number of seconds then resets the push bar in blocked position for selective entrance control.

A permanent free access position, e.g. during opening times, is possible, or for a defined length of time. The ELR function by motorisation is not compatible with a fire door application.

**Detection**
The push controls with detection function are equipped with a sensor in the door, a sensor on the bolt, and a sensor on the push pad, to provide informations on the status of the door opening and closing.

The JPM Push Control provides a ready means of escape, during authorised times or in case of emergency, by the single action of pushing on a horizontal bar fitted across the full door width.

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**Technical datas**

- The basic JPM Push Control horizontal and vertical panic exit device is suitable for timber, metal, PVC, and security glass doors with mid rail.
- All functions are reversible and non-handed.
- To order you must specify the voltage and the finishes as follow:
  - Epoxy coated Standard finishes:
    - "XX : 01 = body red / touch bar black / 24V
    - "XX : 02 = body red / touch bar black / 48V
    - "XX : 03 = body silver / touch bar black / 24V
    - "XX : 06 = body silver / touch bar black / 48V

- Voltage:
  - The power supply must be regulated rectified DC voltage.
    - 24Vdc +/-10%
    - 48Vdc +/-10%

- Consumption:
  - Blocking: 24 Vcc 157 mA / 48 Vcc 106 mA
  - Dogging (in action): 24 Vcc 2 A / 48 Vcc 1 A
  - ELR (normal): 24 Vcc 550 mA / 48 Vcc 320 mA
  - Supplied with 3 meters connection cable.

- Door thickness:
  - Standard 35 to 60 mm
  - + 60 mm, extension connection kit on request.
  - Burglary resistance 450kg.
  - Outside mechanical trim with or without cylinder on option, to refer to the outside trim chapter.

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**Features & Specifications**

**Rim Type Series**
- Suitable for single and double doors of 900 or 1200 mm width doors.

**Vertical Series**
- Suitable for single and double doors of 900 or 1200 mm width doors, adjustable on site.

**Door Height**
- Standard maximum height up to 2300 mm extension to 3000 mm.
- Installed with center line of exit device at 1023 mm above finished floor level.

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**Special features**

**STANDARDS**
This product has been successfully tested in accordance with NF 561-937 Fiche XIV and EN1125 (safety position)

**JPM Guarantee**
2 years - 250 000 cycles

Immediate opening with 100 kg loaded door
Electrically controlled panic exit systems

PUSH CONTROL

Blocking version

Single point Push Control, blocking version
Ref. 900101-xx*
Dimensions: 838 mm length
Ref. 910101-xx*
Dimensions: 1141 mm length

Vertical Push Control, blocking function
Ref. 930101-xx*
Dimensions: 838 mm length
Ref. 940101-xx*
Dimensions: 1141 mm length

Blocking and monitoring version

Single latch - blocking and detection version
Ref. 900111-xx*
Dimensions: 838 mm length
Ref. 910111-xx*
Dimensions: 1141 mm length

Vertical Push Control - blocking and detection version
Ref. 930111-xx*
Dimensions: 838 mm length
Ref. 940111-xx*
Dimensions: 1141 mm length

Blocking and ELR version

Single latch Push Control - blocking and detection version
Ref. 900411-xx*
Dimensions: 838 mm length
Ref. 910411-xx*
Dimensions: 1141 mm length

Vertical Push Control - blocking and detection version
Ref. 930411-xx*
Dimensions: 838 mm length
Ref. 940411-xx*
Dimensions: 1141 mm length

* XX : 01 = body red / touch bar black / 24 V
* XX : 02 = body red / touch bar black / 48V
* XX : 03 = body silver / touch bar black / 24V
* XX : 06 = body silver / touch bar black / 48V
Electrically controlled panic exit systems

**PUSH CONTROL**

**ELR and monitoring version**

*Single latch Push Control - ELR and detection version*
Ref: 900310-xx*
Dimensions: 838 mm length
Ref: 910310-xx*
Dimensions: 1141 mm length

*Vertical latches Push Control - ELR and detection version*
Ref: 930310-xx*
Dimensions: 838 mm length
Ref: 940310-xx*
Dimensions: 1141 mm length

**Semiautomatic ELR version for fire doors**

By simple pressure on the Push Control the ELR function is activated, and the door is free to be used for the exit or the entrance. Combined with an hold open device door closer, and in the event of power failure the door will be locked again. The door can always be opened in the escape direction as panic device function. The Semiautomatic ELR version is also equipped by 2 monitoring contacts with indication of door status, closed or open, and latch status, out or retracted; both combined give the security or safety status of the exit way.

*Single latch Push Control semiautomatic ELR version - silver and black push pad.*
Ref: 900 210-03
Dimensions: 838 mm length

*Vertical Push Control - semiautomatic ELR - silver and black push pad*
Ref: 930 210-03
Dimensions: 838 mm length
JPM 90 PUSH BAR with exit detection
Applications

A panic exit device to EN1125 is intended for use where panic situation may arise, to give safe and affective escape through a doorway with minimum effort and without prior knowledge of the panic exit device.
New solutions meeting aditional needs have been developed to incorporate additional features. An electricaly controlled panic exit sysem, intended for use where panic situations are forseen, enables the electrical control of the panic device by means of an independant and separate electrical locking element.
These separates elements may be combined with the panic device to provide the required system function, eg. a door operator, electric bolt, magnets.

Technical datas

Features & Specifications

Rim Type Series
• Suitable for single and double doors of 900 or 1200 mm width doors.

Vertical Series
• Suitable for single and double doors of 900 or 1200 mm width doors, adjustable on site.

Door Height
• Standard maximum height up to 2300 mm extension to 3000 mm.
• Installed with center line of exit device at 1023 mm above finished floor level.
  - Supplied with 2 meters flexible connection cable.
  - Contains a microswitch: 5A/250Vca - 5A/30Vca

Special features

STANDARDS
This product has been successfully tested in accordance with NF S61-937 Fiche XIV and EN1125 (safety position)

JPM Guarantee
2 years - 250 000 cycles

Immediate opening with 100 kg loaded door
Electrically controlled panic exit systems

JPM 90 PUSH BAR with exit detection

Touch pad with monitoring contact without latch
Fitted on the internal side of the door, to release an electrical locking device by simple and low pressure. Supplied with 2 meters flexible cable. Tested to equip fire doors. Fitted on the internal side of the door, to release an electrical locking device.

Silver and black touch pad, adjustable on site from 790 to 620 mm
Ref. BD9000-01

Silver and black touch pad, adjustable on site from 1055 to 735 mm
Ref. BD9100-01

Push bar with monitoring contact
The push bar is always free, a microswitch signals if the touch pad has been used. Combined with an electric blocking system, e.g. access control, it releases the door for immediate escape. Supplied with 2 meters flexible cable.

Single latch - silver and black touch pad - adjustable on site from 838 to 665 mm
Ref. 900000-21

Single latch - silver and black touch pad - adjustable on site from 141 to 820 mm
Ref. 910000-21

Vertical latches - silver and black touch pad - adjustable on site from 838 to 665 mm
Ref. 930000-27

Vertical latches - silver and black touch pad - adjustable on site from 141 to 820 mm
Ref. 940000-27
Verrou control

Allows locking of the emergency exit for control purposes by a failsafe mechanism.

Allow the unlocking of the emergency exit, even if a load is applied to the door.

Monitoring: The front red light informs whether the door is locked or unlocked.
Applications

The Verrou Control is a complementary electrical locking system for emergency exits fitted with a mechanical Panic Exit device or a remote control bar. The design gives high burglary resistance and access control ability. Designed for areas which require authorized exit through doorway equipped by panic exit system to EN1125.

Technical datas

- reduced volume: 350 x 47 x 41 mm.
- reversible, non handed.
- opens even a 500 kg load is applied to the door.
- fixing bracket with cover for flush doors.
- outflow of electrical information on "dry contact".
- state of the activated safety device:
  - waiting = locked
  - safety = unlocked 2 pole type power relay, 30 V-2A
- door position.
- door position:
  - red light = door closed and locked.
  - light out = door unlocked.
- nominal voltage 24 VDC or 48 VDC depending on product version.
- reduced electricity consumption: 3.1 W
- ready to be connected to the fire detection system.
- operating -20° to +70°, IP42
- materials and finish: stainless steel or aluminium epoxy coated

Special features

CONFORT
- Reversible.
- Match with panic device 89 and 90 JPM series

SECURITE
- 1000 KG resistance
- This product has been successfully tested in accordance with NF S61-937
- JPM guarantee
- 2 years - 250,000 CYCLES
Verrou control

24 Volts - 90 mA Verrou control white finish
Ref. VE1000-11-0A

24 Volts - 90 mA Verrou control with stainless steel cover
Ref. VE1000-12-0A

24 Volts - 90 mA Verrou control silver finish
Ref. VE1000-17-0A

48 Volts - 60 mA Verrou control white finish
Ref. VE1000-13-0A

48 Volts 60 mA Verrou Control with stainless steel cover
Ref. VE1000-14-0A

48 Volts - 60 mA Verrou Control silver finish
Ref. VE1000-18-0A

Accessories for Verrou Control

Angle fixing bracket - white
Ref. VE0010-01-0A

Angle fixing bracket - silver
Ref. VE0010-02

Angle fixing bracket - stainless steel
Ref. VE0010-03

Spacer plate for strike - 12 mm
Ref. VE0014-01-0A
Our JPM magnets are designed to secure any kind of door or gate that closes against a fixed stop. The product consists of an electromagnet which mounts on the fixed frame, and a strike plate which mounts on the moving door or gate. The strike plate is delivered with fasteners that let it flex, so when a door closes, it automatically self-aligns with the magnet. Powerful magnetic force then secures the door, and release is achieved by switching off current. Magnalocks are remarkably efficient. Low power consumption is especially important when large numbers of Magnalocks are operated from a central power supply. Efficiency saves in wire gauge, power supply and battery backup costs.

As a continued commitment to excellence in customer service and product quality, JPM introduces MagnaCare™ Lifetime Replacement Warranty. This unique program, covers virtually every product we manufacturer, for any reason (installation error, vandalism, or even rare factory defects) for the lifetime of the installation! MagnaCare™ even includes next business day overnight delivery at no charge. The MagnaCare™ Lifetime Replacement Warranty program is included in the cost of the product.
Applications

Model 62 increases holding power to 545 kg, appropriate for exterior and perimeter doors through which criminals could gain entrance to cause substantial economic loss. Entry cannot be forced without special tools, or before the door and frame actually give way.

Fixing: Standard or face mounted models

Shear Aligning Magnalocks (SAM): SAM, the Shear Aligning Magnalock provides 455 kg holding force and mounts fully concealed in wood, steel or aluminum doors. Concealed mounting is extremely pertinent to both higher security and an aesthetic finished appearance. The lock is mortised into the frame, and the strike is mortised into the door. SAM can also be installed in any position on the door—top, side or bottom. It is ideal for swing-through and sliding doors because of its unique, highly engineered design. Templates are available to door manufacturers for door and frame preparation prior to installation.

Technical datas

- Instant release circuit-no residual magnetism
- Fully sealed electronics-tamper proof & weatherproof
- Mounted using steel machine screws into blind finishing nuts
- Architectural brushed stainless steel finish (US32D/630)
- All ferrous metal surfaces plated to MIL specification

A unique benefit of the SAM’s physical design is that it functions equally well on doors that swing to close or doors that slide to close. A traditional magnetic lock secures a door by preventing the strike from being pulled away from the magnet body. A shear lock prevents the strike from being pulled across the magnet body.

Special features

- Instant release circuit-no residual magnetism
- Fully sealed electronics-tamper proof & weatherproof
- Mounted using steel machine screws into blind finishing nuts
- Architectural brushed stainless steel finish (US32D/630)
- All ferrous metal surfaces plated to MIL specification
Electrically controlled panic exit systems

Electric magnets

Single magnet

Single magnet, with monitoring, 24V, holding force 545 kg.
Ref. M62001-03-0A

Face mounted

Face mounted single magnet with monitoring, 24V, holding force 545 KG
Ref. M62001-04-0A

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Single mortise magnet

Single mortise magnet - dual voltage 24/48V - holding force 455 kg - with connecting box
Ref. SAM001-01-0A

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Escape door strike model VE5000

- Compact symmetrical design
- Instant door release under preload in the event of power failure
- Monitoring contact
- Burglary resistance 750 kg
- Capable to equip fire doors.
Applications

Especially developed to lock doors in escape routes, the VE5000 model can be fitted quickly and easily in various profiles and frames. A further advantage is the secure and reliable unlocking procedure under a preload of up to 500 kg, a holding power 100% in the event of a power failure. The VE5000 meets the NF S61937 Fiche XIV, standard.

Technical datas

- reversible, non handed.
- nominal voltage 145 mA / 24 VDC or 72 mA / 48 VDC depending product version.
- reduced electricity consumption: 3.5W
- ready to be connected to the fire detection system
- operating -20° to +70°, IP42
- materials and finish: stainless steel strike
- Supplied with adjustable mortise latch;
- Hand to specify 1 for RHR - 2 for LHR
Accessories and supplements Escape door strike model

24v model for single swing door
Ref. VE5000-1/2-A

48v model for single action door
Ref. VE5000-02-1/2-A

24v model for single swing door with monitoring contact - Hand right (1) or left (2) to precise.
Ref. VE5001-01-1/2A

48v model for single action door with monitoring contact
Ref. VE5001-02-1/2A
Electric strike for panic exite device

Functions

Fail safe :

The door strike is blocked as long as the current is switched on. If the current is switched off or interrupted by a current failure, the keeper is free to move and the door can be opened.

Fail secure :

• The door can be opened during passing of current.
• Fail secure with 100% coil :
• Heavy duty version for long energization period

Monitoring versions :

• Gives the door status, open or closed

Spacers kit :

• for fitting adjustment

Remark :

• The use of an electric strike with a panic device is not compatible with the EN1125 standard.
Applications

Surface mounted Electric strike for JPM 89 and 90 series panic device. Provides electrical remote control allowing door to open without actuation of the exit device.

Technical Datas

Fail safe:

- AC 12 V - 0,4 A / 24 V 0,3 A
- DC: 12 V - 0,6 A / 24 V - 0,5 A

Fail secure:

- DC: 12 V - 0,2 A / 24 V - 0,15 A

Special features

- 3 years guarantee
- Réversible
- Résistance +1000 kg
- unlocking under a preload of up to 20 kg / 12 Vac
Electrically controlled panic exit systems

Electric strike for panic exit device

**12 volts - Fail secure - 400 mA/Vca - 600 mA/Vcc**

**Basic version**
Ref. ATP260-01

**With door position contact**
Ref. ATP260-05

**With heavy duty coil for long energization period**
Ref. ATP260-08

**24 volts - Fail secure - 300 mA/VCA - 500 mA/VCC**

**Basic version**
Ref. ATP260-02

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**12 volts - Fail safe - 200 mA/VCC**

**Basic version**
Ref. ATP260-03

**With door contact position**
Ref. ATP260-06

**24 volts - Fail safe - 150 mA/VCC**

**Standard version**
Ref. ATP260-04

**With door position contact**
Ref. ATP260-07
**Outside trims for panic device**

Outside trim with handle for European profile cylinder, Silver epoxy coated finish  
Ref. EN3000-13

Outside trim with handle for European profile cylinder, Black epoxy coated finish  
Ref. EN3000-14

Outside trim with knob for European profile cylinder, Epoxy coated silver  
Ref. EN3300-04

Outside trim with knob for European profile cylinder, Stainless steel aspect finish  
Ref. EN3300-17

**Lead covers**

Surface mounted - internal diameter 11mm, 475 mm length  
Ref. FM2412-01-0A

**Lead covers**

Concealed, internal diameter 8mm, for doors opening up to 90°  
Ref. FM2500-01-0A

Concealed, internal diameter 8mm, for doors opening up to 180°  
Ref. FM2500-02-0A

**Emergency call point**

Break glass emergency call point, surface mounting, green colour.  
Ref. F80400-03-0A

Door selector in stainless steel CE-EN1154 - packed by 2 pieces  
Ref. 914000-04

Control terminal to combine both the control device and the door terminal - adjustable opening time. The TIS1000 terminal can manage 2 electric locking devices.  
Ref. TIS100-02-0A

**Key pad - surface mounted**

-12 volts AC / VCC  
Ref. DN3040-01  
Dimensions: 114 x 70 x 35 mm
ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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Du Détail naît la Différence