

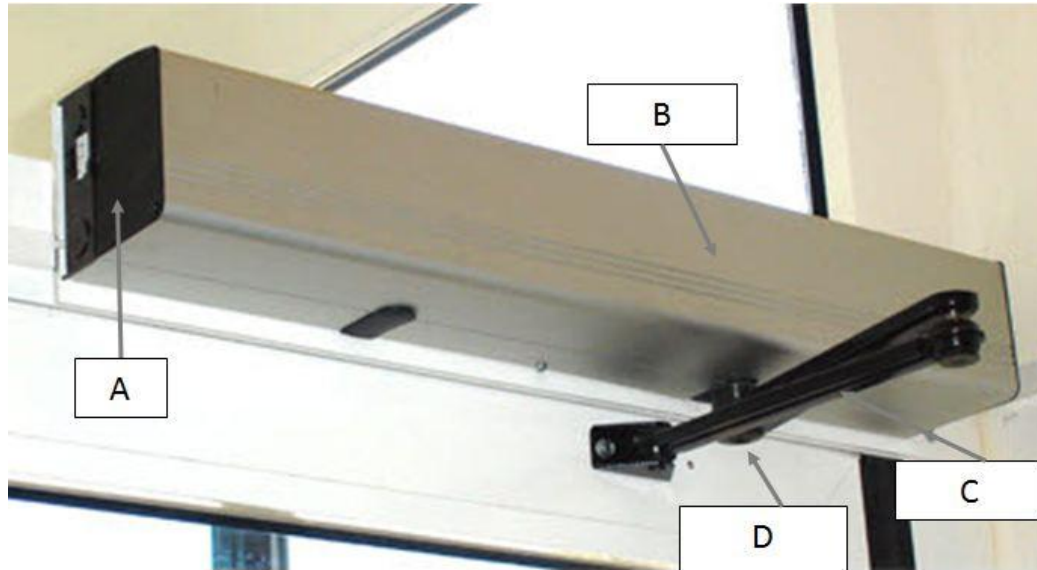


# An Introduction to Automatic Swing Doors

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# Automatic Swing Operator



## A SWING DOOR OPERATOR

(some times referred to as swing door opener or automatic swing door operator) is a device that operates a swing door for Pedestrian use. It opens or helps open the Door automatically, waits, then closes it.

**A. End Cap**

**B. Operator Cover**

**C. Operator Arm**

**D. Drive Shaft/Spindle**

# Swing Door Operator Applications

- **Full Energy** - Opens and closes the door at full speed. Typically used on the entrance doors of medium sized retail businesses with medium to heavy levels of pedestrian traffic. (Larger retail businesses prefer sliding door operators) Full automatic door safety measures will apply.
- **Low Energy** - Opens and closes the door at reduced speed, in order to limit the kinetic energy of the moving door to levels deemed safe for disabled users. Typically used where a simple door closer is sufficient for abled users, yet it is necessary to add access to disabled users: small businesses, apartments, bathrooms. Suitable for Light pedestrian traffic.
- **Power Assist** – Enables the user to open the door manually at a reduced force, making the door seem lighter compared to opening against a standard door closer. The door then closes as if on a normal spring door closer.
- **Push and Go** - The Operator will activate if the door is manually opened

# Activation

A door operator may be activated in various ways

[http://www.global-automatics.com/shop/sensors/sensors/cat\\_26.html](http://www.global-automatics.com/shop/sensors/sensors/cat_26.html)

**Activation Sensor** - (Sometimes referred to as a PIR or Radar)  
the door opens when a user approaches it.



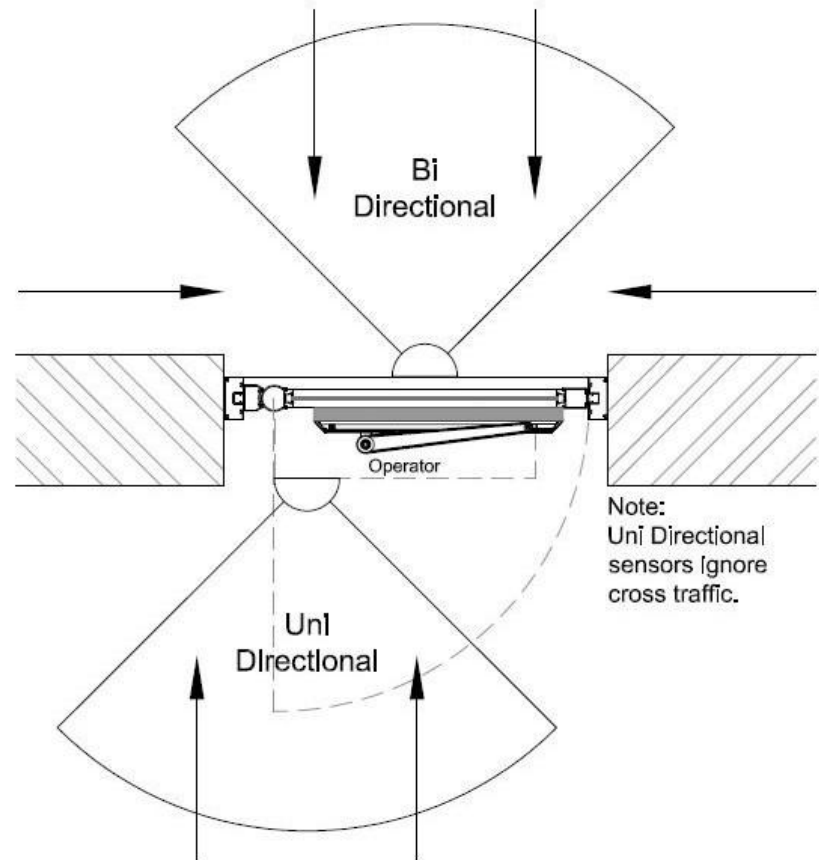
There are two types of activation sensor for Automatic Swing Doors

**Uni Door Activation Sensor - Domino 1000** - Uni directional door activation sensor with cross-traffic filtering function and turtle mode for the detection of slow moving pedestrians, can be set up to ignore swing door movement. (Microwave Technology) Black

**Bi Door Activation Sensor - Domino 1010** - Bi directional door activation sensor,

**The BS7036 states** that Automation activation devices should be positioned to ensure that, where practicable, the edge of the detection zone where activation is initiated should be as follows:

- 1400mm from the door, measured perpendicular to the plane of the closed door, when the door opens away from the user;
- 1400mm from the leading edge of the door in the fully open position when the door opens towards the user.



# Activation

[http://www.global-automatics.com/shop/press-pads/cat\\_14.html](http://www.global-automatics.com/shop/press-pads/cat_14.html)

**Push button** - opens the door when a user presses the button.



- **Hardwired Push Button** - Push button activation for an automatic door hardwired into operator to the activation switch (Push button, Microwave sensor) Hardwired stainless steel switch (Also known as a push button or push pad) with ABS back box, wheelchair logo and "Push to Open" text printed.
- **Wireless Push Button** - Wireless stainless steel switch with ABS back box. Transmitter included and an Ultra-small 433MHz receiver will be required for the wireless push button to work with an Automatic door operator for the wireless push buttons to work with. Wheelchair logo and "Push to Open" text printed.

Our hardwired and wireless push pads come with the Wheel chair logo and "Press to open" text in three sizes - 115mm x 115mm x 44mm, 152mm x 152mm x 44mm and slim line 38mm x 115mm x 44mm.

# More Activation

[http://www.global-automatics.com/shop/press-pads/press-pad-accessories/cat\\_28.html](http://www.global-automatics.com/shop/press-pads/press-pad-accessories/cat_28.html)

**Access control** - the door opens when an Access Control System determines the user is authorized to go through. This incorporates magnetic locking, keypad and key fob entry systems.



**3 Position Key Switch** - A wall mounted switch ideally used on automatic swing doors that gives the user the option to change the function of the door operation. The functions are Auto, off and Hold Open.



**Remote Control** - Remote control transmitter sends a signal to the operator to open the door. Works with Ultra Small Receiver 433MHz-RX



**Ultra-small 433MHz receiver** is used with Wireless push button. This is normally installed in an automatic door operator when a wireless push button is to be used as activation; it receives the signal from the transmitter in the push button telling the door operator to open.

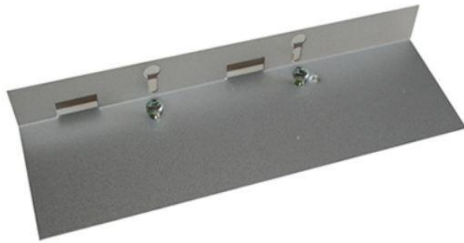
**Relay Board 24V** - suitable for various applications such as connecting large Electric locks to swing door operators



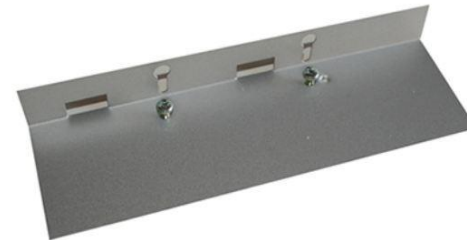
# Weather Covers and Ceiling Kits

[http://www.global-automatics.com/shop/sensors/sensor-accessories/cat\\_25.html](http://www.global-automatics.com/shop/sensors/sensor-accessories/cat_25.html)

**HR 100 Ceiling Kit** - A ceiling mounting kit  
Suitable for a HR100



**HR 94 Ceiling Kit** - A ceiling mounting kit  
Suitable for a HR94



**Domino Weather / Ceiling Kit** - A dual Purpose  
Rain cover and Surface mounting ceiling kit for  
the Domino. Ceiling kit sensor.



**Flush Mounting Kit - HR-100** - A Flush Housing  
kit Suitable for a HR100



# Disability Toilet Locking System

## Overview:

The Prox sensors will function without actual touch, work through gloves and are washable. The entire Label is sensitive. Visually enhanced labels.

**Swing Door:** Leaving the Door in an unlocked state enables Manual or Assisted entry.

This encourages the user to locate the “Touch to Lock” sensor therefore ensuring that the system has been switched into the “Engaged” mode before using the facility. (Permanently Locked door version is possible with Key Fob entry etc)

**Entering:** the facility either Manually or with “Assisted Entry” the Door must be shut before the “Touch to Lock” sensor will function, therefore inhibiting pranksters. This is achieved by the use of a Normally Closed magnetic Door contact.

Simply operate the “Touch to Lock – Touch to Open” sensor to lock the door. The Red LEDs will illuminate on both internal and external units denoting “Engaged / Locked”. The “Assisted Entry” sensor will no longer function.

**Exiting:** the facility simply operate the “Touch to Lock – Touch to Open” sensor, the Red LED changes to Blue & the door will Unlock and Open Automatically

**Sliding Door:** An additional Activate timer PCB can be adjusted to keep the door open on entry until the system has been set to the “Engaged / Lock” mode, whereon operating the “Touch to Lock – Touch to Open” sensor closes and Locks the door, therefore ensuring privacy.

## Vacant / Engaged:

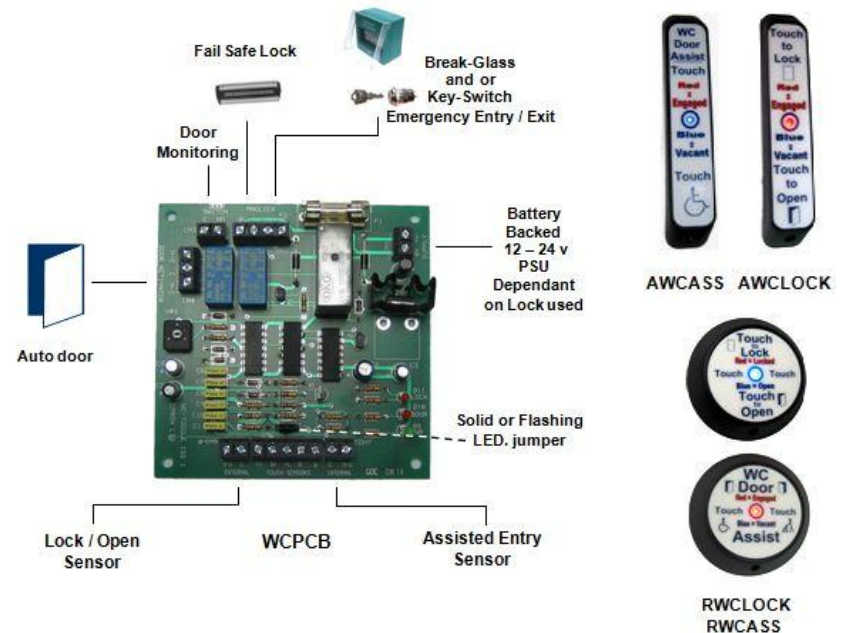
A link on the PCB enables Flashing or Solid status LEDs. Blue for Vacant – Red for Engaged  
(We have incorporated Blue as opposed to green due to colour blind users finding difficulty distinguishing between Red & Green) A separate Engaged / Vacant sign is also available. (SGENG)

## Sensors / Signage:

Any combination of sensor can be incorporated

**Power Supply:** A 12 or 24 v 1A Battery Backed Power supply can be incorporated.

NB: The Lock voltage is dependant on PSU option.



# On Door Safety

[http://www.global-automatics.com/shop/sensors/sensors/cat\\_26.html](http://www.global-automatics.com/shop/sensors/sensors/cat_26.html)

**On Door Safety Sensors** primary use is to prevent the door from coming into contact with a door user.



## On Door Safety Sensor Sensors Application

- **Full Energy** - Operators require at least 2 sensors, one on the opening face and one on the closing face of the door.
- **Low Energy** - Operators are not required to have any safety sensors if set to low energy, if the door were to come in contact with the user the motor will reverse direction. The kinetic energy of the moving door is limited by the reduced moving speed.
- **Closing Face**, door mounted sensor - Mounted on the approach side of the door itself, used as the door is closing to detect a user in the way of the closing door. In that case, the operator either stops the door or reopens it.
- **Opening Face**, door mounted sensor - Mounted on the swing side of the door itself, used as the door is opening to detect a user in the way of the opening door. In that case, the operator stops the door.

**IMPORTANT!** - These sensors detect presence not movement.

**The BS7036** states – A presence sensing safety device should be fitted that interrupts the door at any point during it's cycle if an obstruction is detected.

# More Door Safety

[http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/other-accessories/cat\\_34.html](http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/other-accessories/cat_34.html)

**Finger Guard** -When automating a door that would create a gap at the back edge when in the open position a finger protection guard will be required. Fitting door **finger guards** is a simple and economical safety measure - particularly in situations where children or the elderly could sustain finger trapping injuries.



**Automatic Door Safety Sign** - A Selection of safety signs are required to comply with the current British standards BS7036



**Safety Barriers** - The BS7036 states that when a swing door, in the open position can be approached from the side the barrier should be fitted along the line of the door leaf in the open position.

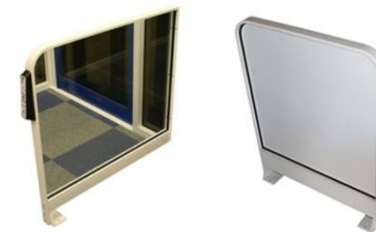
The distance between the barrier and the fully open door should be greater than 25mm and less than 100mm.

**Construction and Placing of Barriers:** Barriers should be a minimum of 900 mm in height, They should be at right angles to, or in the same plane as the doorway opening, Barriers should be capable of resisting a horizontal force of at least 740 N/m applied to the top edge.

Our Barriers are built to order from our bespoke aluminium section. They are dry glazed Using Gasket and stand 900mm high. Each barrier is constructed with a large supporting rail and cleat system to withstand the pressures put on them during their life. Available with Glass or an aluminium Infill Panel.

Our floor to floor barrier has a two substantial angled feet for secure fastening to the ground. The Barrier Allows 80mm clear gap between the floor and bottom of the barrier.

Our Automatic door barriers are available Built ready to install or in Kit Form

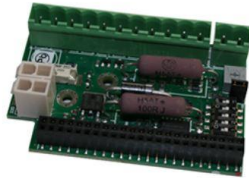


# Battery Back Up, Ex Boards & Fire Alarm Links

[http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/cat\\_29.html](http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/cat_29.html)

## EMO battery card EXU-S1

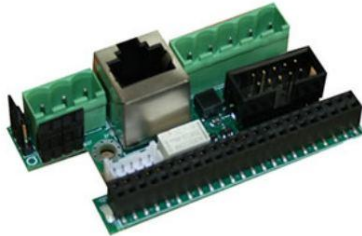
Required if fitting Battery backup or Locking Systems with the EMO swing door operator.



## EMO Battery Cells - Optional Battery back up Unit (EXU-S1 battery card will be required)



**EMO Safety Card – SA** - The SA Extension card allows the fitting of On door safety sensors and Monitored safety sensors. Both Opening Face and closing face are Normally closed Inputs.



**Fire Alarm Links** - Depending on your fire officer's requirements the door may be required to close or open in the event of a fire. Dedicated fire alarm contacts are available with in most automatic door operators. These are volt free normally open and will be connected to the fire alarm panel by others such as a credited fire alarm company.



Please Note that each EMO swing door operator comes with only one of these cards as standard and the other must be added to the Order when placed.

# Operator Arms

[http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/arms/cat\\_31.html](http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/arms/cat_31.html)

Where you mount an automatic swing door operator will determine exactly what type of arm you will require. It is extremely important, when fitting an automatic swing door operator, to establish what type of arm you require prior to install to avoid any complications. See the site survey section for more info on what to look out for.

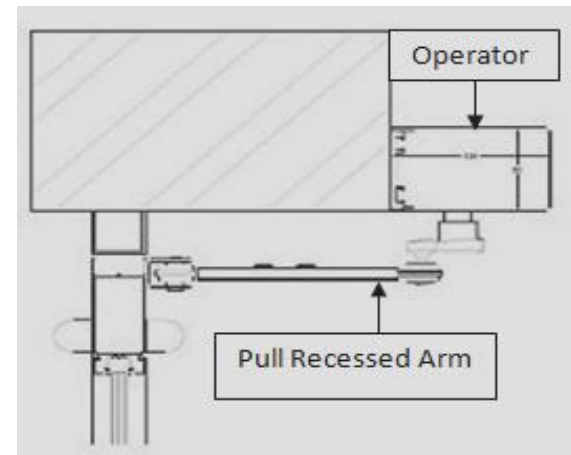
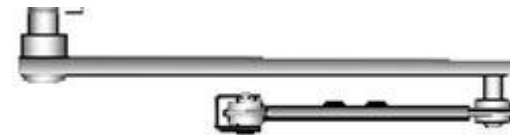
**Push Arm** – The pushing arm system is used where the operator is installed above the door and it opens inwards. This arm will accommodate most deep reveals up to 480mm with the addition of arm Telescopic extensions. Door opening angle adjustable up to 120°. Maximum door weight 250kg.



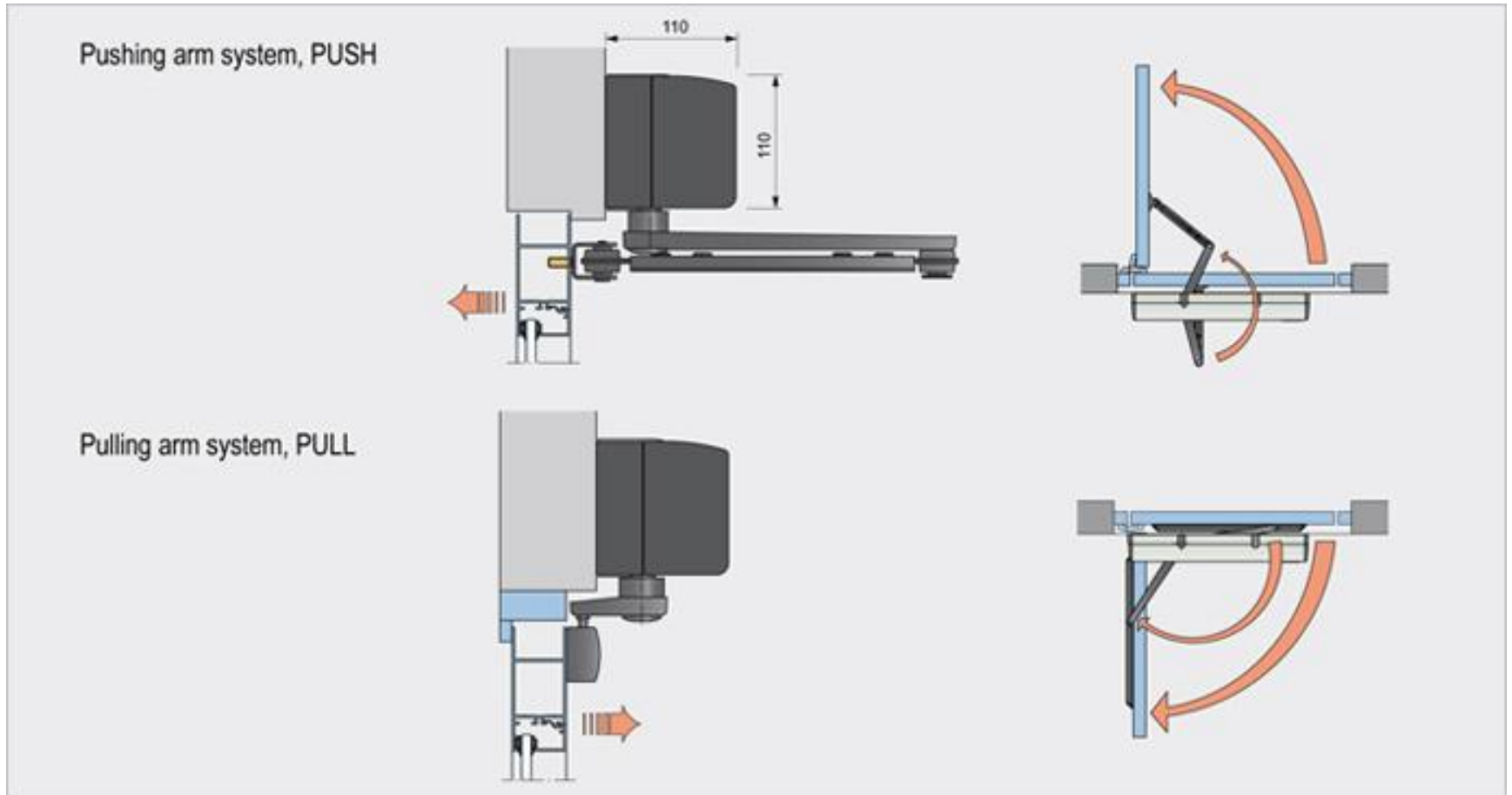
**Pull Arm** - The pulling arm system is used where the operator is installed above the door and it opens inwards. Door opening angle adjustable up to 120°. Maximum door weight 110kg



**Pull Recessed Arm** – This is a special arm with modified extension pieces to accommodate large reveals when the operator is to be mounted on the pull side of the door. A Special "Pull" arm for doors with a recess of 100- 250mm






# Arm Drawings



# Operator Arms & Extensions

[http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/arm-accessories/cat\\_32.html](http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/arm-accessories/cat_32.html)

**Telescopic arm piece and arm ext joining piece** -These are Used to extend the push arm when a standard arm is not big enough for very deep reveals.

SAS-F, Arm Extensions			
Reveal	Extension		
Up to 4-3/8" 0-110 mm	None (Standard arm)	<b>345 mm extension</b> Art. No. 173005	
4-3/8" to 9-1/4" 110-235 mm	345 mm	<b>230 mm extension</b> Art. No. 173004	
9-1/4" to 14-1/8" 235-360 mm	230 mm + Joint part	<b>Joint part</b> Art. No. 173191	
14-1/8" to 19" 360-485 mm	345 mm + Joint part		

**Drive Shaft Extensions** -A shaft Extension Piece to allow you fit The Automatic Door Operator Higher than usual. These come in Various lengths, 20mm, 50mm and 70mm.



**Breakout Arm** - A pull type arm -utilises an aluminium channel that is fixed to the door. The special setup allows the arm to "break away" from the door to all manual breakout in the opposite direction. This is required if the door is on an emergency escape route and opens inwards.

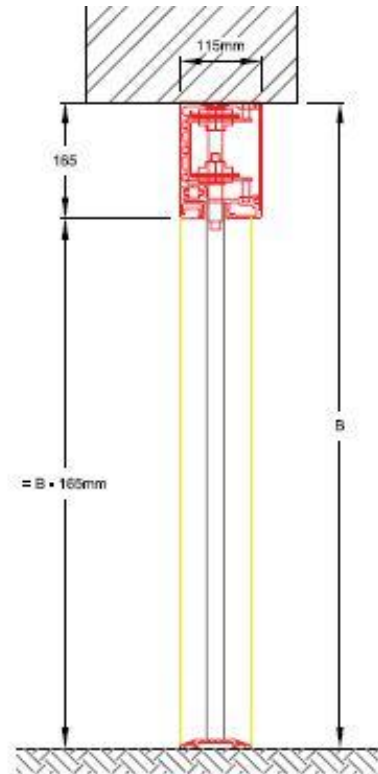


**Door Mounted Operator** – When there is not enough space to mount the operator above the door if there is no alternative the operator can be fitted to the door itself. **Please call for more information .**

# Inhead Swing Operator

[http://www.global-automatics.com/shop/swing-door-operators/operators/cat\\_23.html](http://www.global-automatics.com/shop/swing-door-operators/operators/cat_23.html)

**Inhead Swing Operator** - The ideal solution where a high Density traffic swing door is required. The Inhead operator allows you to have an automatic swing door without the unsightly operating units and arms being on view. The door is operated by an Inhead operator via a standard arm mounted in the top of the door rail.



## Features -

- Only 165mm of housing
- Hold all of the automatic equipment
- No unsightly arms
- Compact unit
- Can be used to replace existing "In-head" swing systems
- + Built in "break-out"

## Door Functions

- **AUTOMATIC** – Allows access from both directions
- **CLOSED** – All activations are ignored - The electric lock will engage
- **HOLD OPEN** – The doors are held in the fully open position



# Fittings

[http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/cat\\_29.html](http://www.global-automatics.com/shop/swing-door-operators/swing-operator-accessories/cat_29.html)

## Door Loop

Door loops are required as cable housing when installing an "On Door" Safety Sensor. They allow the wires to cross the door frame from the sensor to the operator fitted above.



## Fitting/Mounting Plate

Mounting Plate used to reinforce the area above the door where the automatic door operator is to be fitted. These can be powder coated if required. Weight of the operators is around 15 kg per motor.



## Packer Bar

Used on swing doors that open with a pull arm. Pull arms require the area above the door to be flush with the door. The packer bars are used when this is not the case, for example if there is any sort of reveal, alcove or large architrave. Commonly seen on Standard aluminium doors.



## Dummy Closer

Doors that have a transom spring closer concealed in the head of the door or a floor spring require a dummy closer so that the spring closer will not work against the automatic door operator when powered.



# Powder Coating

**What is Powder Coating?** - Powder coating is a type of coating that is applied as a free-flowing, dry powder. The main difference between a conventional liquid paint and a powder coating is that the powder coating does not require a solvent to keep the binder and filler parts in a liquid suspension form. The coating is typically applied electrostatically and is then cured under heat to allow it to flow and form a "skin". The powder may be a thermoplastic or a thermoset polymer. It is usually used to create a hard finish that is tougher than conventional paint. Powder coating is mainly used for coating of metal, such as aluminium extrusions.

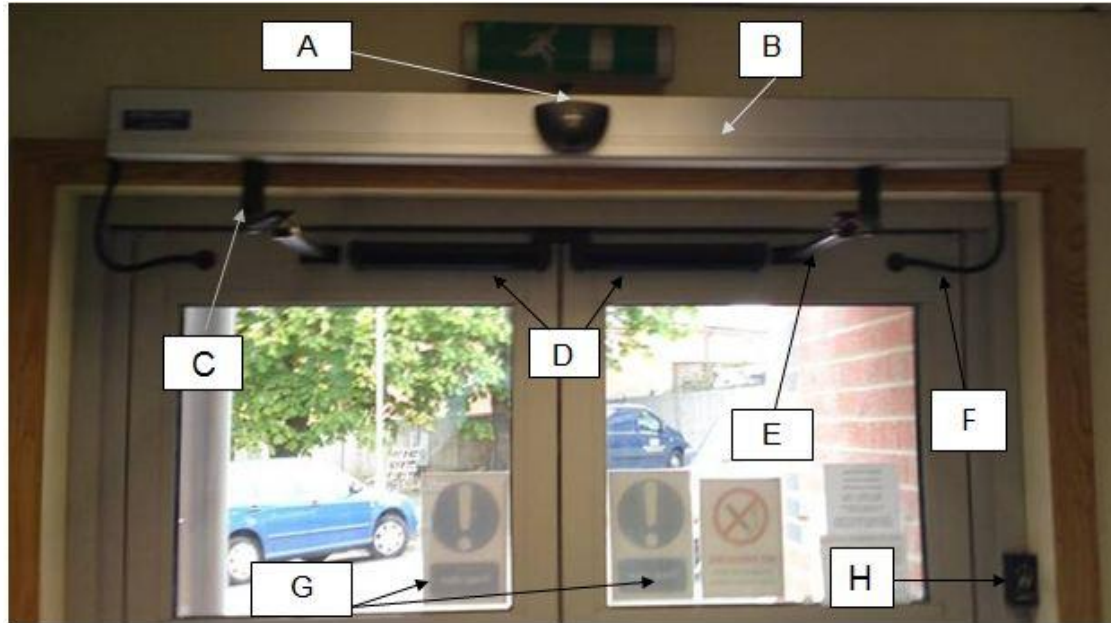
**Powder Coating and Automatic Doors** - Powder coating is an important part of the door automation industry. It is used on newly prefabricated doors, shop fronts and helping new equipment blend in with existing aesthetics. The main swing door items that may require powder coating when fitting on an existing door are operator covers, fitting plates, operator arms, packer bars and safety barriers.

**RAL Colours** - RAL is a colour matching system used in the UK. RAL refers to the RAL CLASSIC system, mainly used for varnish and powder coating.

There are a wide range of RAL colours available but please keep in mind that non standard colours may be more costly to source so please check these with your powder coating company prior to install.



# Typical Door Setup Example



- A. Activation Sensor
- B. Two operators under an extended double cover
- C. Drive Shaft Extension
- D. Safety Sensors
- E. Push Arm (Articulated)
- F. Door Loop
- G. Safety Signage
- H. 3 position Key Switch

# How To Deal With An New Enquiry



The questions on the “swing door enquiry sheet” will help you identify any potential issues and select the appropriate equipment for an in principle quotation

# Swing Door New Enquiry Sheet

To ensure correct product specification, all questions must be answered completely.

Site Details	
Address :	Main contact name :
	Landline telephone number :
	Mobile telephone number :
Post Code :	Email :
Type of Door	
Single Door	
Double Door	
Size of Door	
Please give measurements in mm	
Height	
Width	
How does the door open?	
(to determine what side the operator will be mounted on)	
Door Opens Inwards	
Door Opens Outwards	
What material is the door made from?	
Wood	
Aluminium	
Glass	
UPVC (We can't automate)	
Above The Door	
Give details and measurements of the area above the door, recess, alcove, architrave and any door frame.	

**What is construction of the area above the door?**

(Glass, wood, concrete plasterboard, etc) This is where the operator is likely to be mounted so It may need to be reinforced with a fitting plate

**Is there any existing door closer?**

Give details of any existing door closers e.g. floor mounted, built into the header etc.

**How would you describe the condition of the door?**

This is to establish if the door will require attention prior to Installation

**Door Application?**

Domestic

Commercial

**Where is the door?**

Private home, office, shop, school etc

**Fused Spur**

Always Inform the customer that they must provide a 13A 240Volt power supply terminated in a switched fused spur within 1000mm (1 meter) of the operator. This must be installed and working prior to our installation date. A local electrician will easily install a fused spur quickly and with minimal cost or fuss.

# Dealing With A New Enquiry

Every automatic door installation is different so to establish exactly what is required you must establish exactly what the customer requires.

**Ask the customer how they want the door to operate.** It is of the utmost importance that you establish exactly what functions the clients require from the doors so that you can quote appropriately. Always ask the customer what they want to achieve from their door automation and this should give you the information to pick the appropriate activation and accessories.

**Always ask questions** and offer all of the potential activation options available as there may be things such as a 3 position key switch that the customers were not aware of.

All too often return site visits are made because simple customer requirements have not been established through simple questioning. It only takes seconds to ask a question and it costs nothing. A site revisit can cost you valuable time and money.

**Use The New Enquiry Questions** - Using the Swing Door Enquiry sheet is extremely important for you to establish what the client needs and to avoid any potential future problems with installation and equipment.



# Selling Automatic Doors

Here are some of the main reasons people buy automatic doors that will help you identify a sales need.

- **Safety** - With today's modern sensors and the BS7036:1996 safety standards, automatic doors are incredibly safe. Fail safe devices and procedure mean accidents are rare.
- **Customers prefer automatic doors** - Research proves that consumers prefer automatic doors and expect to see them at: hospitals, airports, hotels/motels, shopping centre entrances and retail stores.
- **Aesthetics** - Automatic doors come in a wide range of finishes, from stainless to powder coating. A well designed entrance can add "significance" to your business.
- **Convenience** - Automatic doors enable easy access for all and instantly demonstrate to users that the establishment cares about their visitors.
- **Your image** - Automatic doors are impressive and give your building a certain status.
- **Low maintenance** - Automatic doors are extremely reliable. They are often operated thousands of times a day and last for several years without any trouble
- **Free** - In most circumstances, a UK based business, will purchase an automatic door to the sum of several thousand pounds. This purchase can be a "capital allowance" and your accountant can depreciate it over several years. This often equates to the actual cost of the system being negligible. (Please consult your accountant for exact rules and allowance).
- **Cost effective** - Automatic doors practically pay for themselves when you consider the energy saving on the building's heating and the increased image and convenience factors for your customers.
- **DDA compliance** - Automatic doors allow unhindered access for all your customers without persecution no matter their mobility
- **Work with professionals** - Automatic door systems are quite complicated and any company wanting to install them must go through a vigorous training program and ideally join the "Automatic Door Suppliers Association".
- **Choice** - There are several different types of automatic door: swing doors, sliding doors, folding doors, balanced doors, revolving doors and low energy swing doors. This means that there is always a solution available to solve your access issues.
- **Security** - A wide range of locking solutions are available within automatic doors. Features such as timers and controlled access mean you can open or close your building without even being present.
- **Energy Efficient** - Automatic doors effectively reduce wasted energy and often considerably lessen annual heating and cooling costs.
- **Diagnostics** - Some automatic systems have "self diagnostics". This means faults and necessary repairs can be quickly identified. Down time of your door is, therefore, kept to a minimum.
- **Information** - Systems can be introduced to count frequency of operations. This allows the customer to calculate busy trading periods and/or the number of visitors through the door set.
- **Advertising space** - Often door systems are made of slim aluminium sections with vast areas of glass. This can be used as an additional advertising space for your business

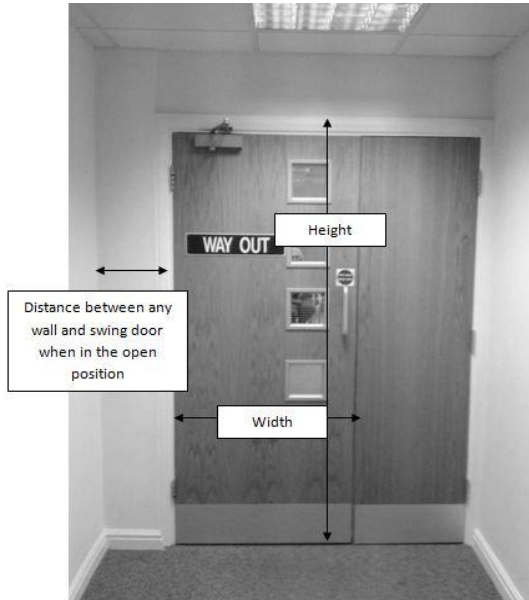
# Site Survey



To establish exactly what equipment is required to automate a set of doors a site survey will normally be required.

# Site Survey

Check the approach to either side the door including the ceiling. False ceilings can be useful for accommodating cables.



It is also important that you have a record of what is to the left and right of the door. If using a special Pull arm there must be at least 135mm between the door in the open position and the wall.

**Max Door Width - EMSW 1600mm EMO 1200mm**  
**Min Door Width - EMSW 700mm EMO 700mm**

If a push arm is to be fitted measuring the door height is important as the arm will hang down into the opening when opening the door and this could cause a hazard to pedestrians. If the door is over 2000mm in height or more this should not be an issue.

**Is there an existing door closer?** This is important because some concealed spring closers have to be removed and replaced With dummy closers. If this is the case then there will be additional Costs for equipment and time because it will involve removal of the existing doors to replace with a dummy closer. .



**Concealed Spring or Transom Closer**

(Replace with a Dummy closer)



**Floor Spring**

(Replace with a Dummy closer)



**Overhead Spring Closer**

(Remove)

# Headroom

**Headroom, Reveal, Architrave and Alcoves.** - This is important that measurements are taken during the site survey to establish if any special opening arms or drive shaft Extensions will be required.

It is also extremely important to try and establish the construction of the area above the door. Is it plasterboard, brick, concrete etc? If you are unsure about the construction of the headroom always quote for a fitting plate as this will spread the weight of the operator when being fitted above the door.

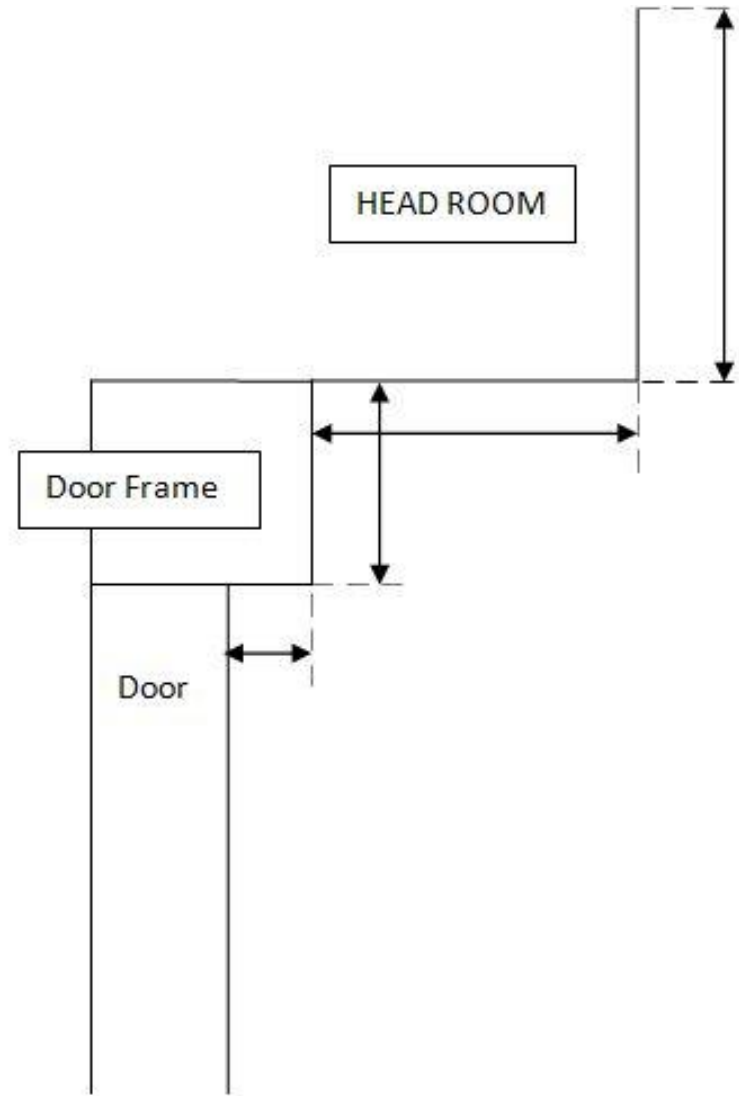


**IMPORTANT** - Always measure the area above the door.

**Required Head Room** above the door to fit the EMSW and EMO swing operators is...

**Push Application - 110mm**

**Pull application - 150mm**

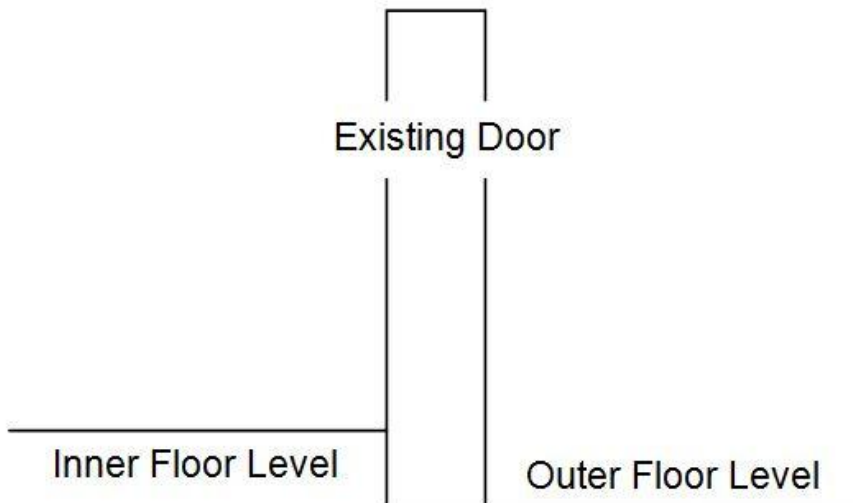


# Floor Levels

## (New Framework Installs)

**Floor Levels** - It is important to measure the floor levels inside and outside. This can be achieved taking height measurements from various points inside and outside the building when surveying for the installation of new prefabricated doors.

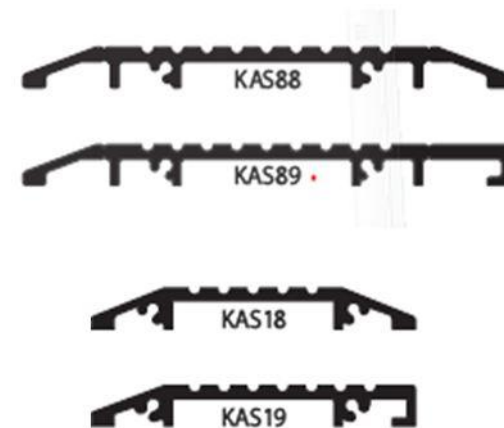
This is important so that the difference in floor height can be accommodated when a door is being prefabricated.



**Threshold** – Relevant when surveying for a new prefabricated door a threshold is normally an aluminium strip that is used when the internal and external floor surfaces meet and can be used in conjunction with a brush strip to create a weather seal.

A threshold must not create a tripping hazard and under Part M must not be greater than 15mm in height.

Threshold Section Examples.



# Safety Barriers

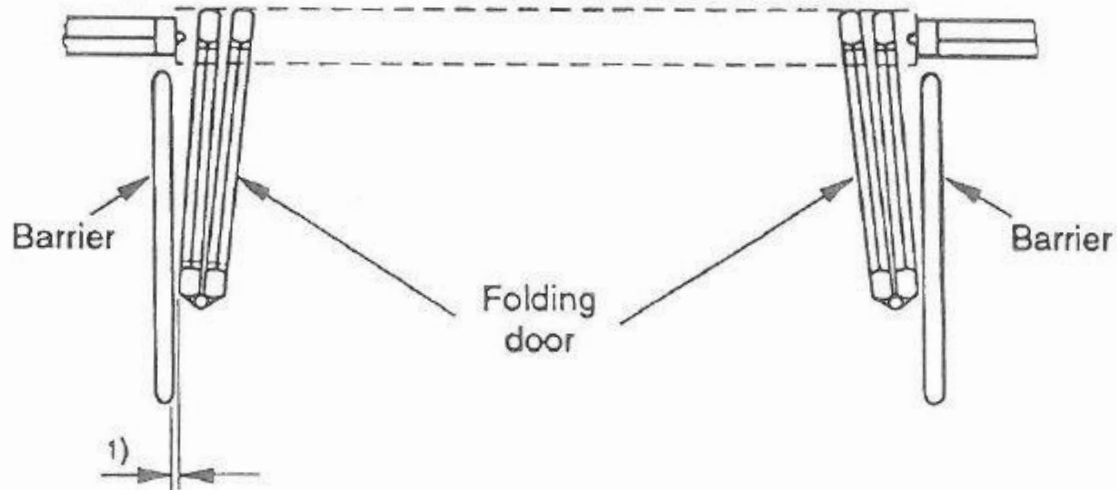
[http://www.global-automatics.com/shop/barriers/cat\\_15.html](http://www.global-automatics.com/shop/barriers/cat_15.html)

**Safety Barriers** – The BS7036 states that when a swing door, in the open position, can be approached from the side then the barrier should be fitted along the line of the door leaf in the open position.

In this picture it shows a door that can be approached from the side while in the open position so therefore will require a safety barrier. It is important that you quote for these up front as they are an expensive additional extra if missed off a quote and the doors cannot be signed off to BS7036 without them. If there was an accident and the safety barriers have not been fitted the clients could be liable.



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Dimension 1) to be greater than 25 mm but less than 100 mm.

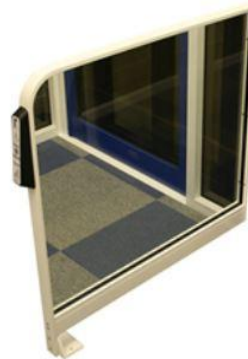
**Figure 2. Position of barrier at folding door**

### Barrier Types

**Wall To Floor** - When you are looking to fit a “wall to floor” safety barrier it is important that you make us aware of any skirting boards that the barrier may have to be fitted around as they are built to order they and can be manufactured to accommodate.

**Floor To Floor** – These are only fitted to the floor so no wall or skirting board measurements will be required. When you survey always ask if the level of the floor is going to be the same when you plan to install as the customer may have plans to install a ramp if n the entrance is to be used for disabled access.

**IMPORTANT** – If a barrier is required you should enquire if there is any under floor heating as you can not fit barriers if this is the case



# Fused Spur, Locks and Latches

**FUSED SPUR - IMPORTANT** – Always Inform the customer that they must provide a 13A 240Volt power supply terminated in a switched fused spur within 1000mm (1 meter) of the operator. This must be installed and working prior to our installation date. A local electrician will easily install a fused spur quickly and with minimal cost or fuss.



**Locks and Latches.** It is important to establish what locks, if any, will be required, so ask then client what level of security they require during the day when the door is in use and what they would want at night. Devises such as an electric strike or Maglocks may be required to secure the door. This will also establish what alterations, if any may be required.



**IMPORTANT** – Remember that, for a swing door to be automated the door must be free swinging. This means that there must be no resistance when the motor powers to open or close the door. Some latches and handles may have to be removed prior to installation if they hinder this.

# Interfacing Access Control

**Equipment to be interfaced.** It is important to take pictures of a Any items of existing access control equipment that is being used on the door as this may interfere with the installation of the door operator

Ask the client if they require their existing access control to be linked into the new automatic door system. Interfacing existing controls is normally possible with a minimum of fuss but always tell the installers what is there and how you want it perform with the automatic door system prior to install so that they are prepared for the work.



Key Pad

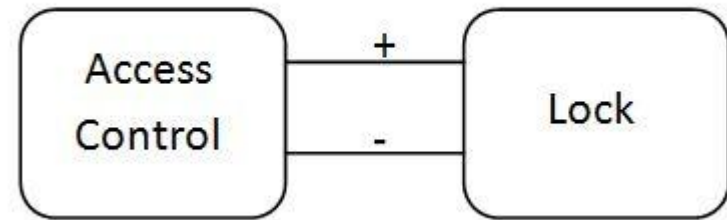
Electric Strike

Push To Exit Button

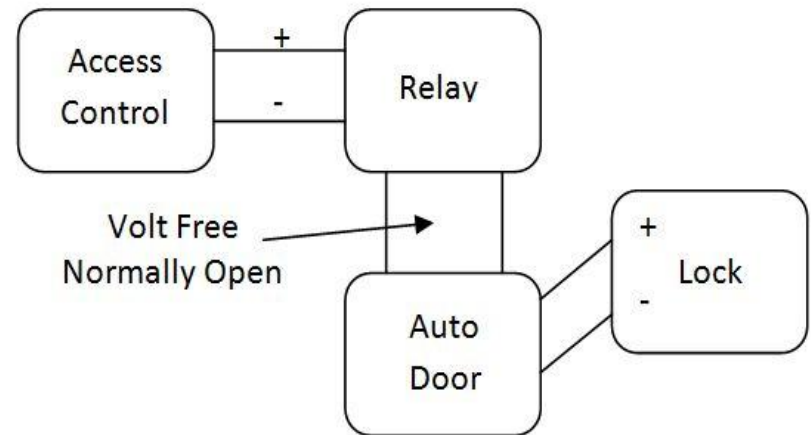
**Anything that looks like it may affect the Installation or operation of Automatic Doors.** Use your common sense and photograph anything that you think may be a help or a hindrance. You can always send photos with questions to Global and we will tell you if they think there will be an issue.

Example :

Existing System



After Installation



Full wiring diagrams are available on our website and can be explained fully in our comprehensive training.

# Part M Quick Help Sheet

**Part M** is the relevant sections of the building regulations document relating to access to dwellings and other buildings.

**Please note:** The building Reg Part M is a very large regulation and this page is just an example of some parts that will be relevant to you. Please consult the relevant standard for full Info.No threshold is preferred but where necessary ( external doors ) Less than 15mm.

That there is a 1500 x 1500mm level landing clear of any door swings immediately in front of any entrance and is of a material that does not impede the movement of a wheel chair.

## CLEAR OPENINGS

Direction and width of approach	New Buildings	Existing Buildings
Straight on	800	750
At right angle with an access route at least 1500mm	800	750
At right angle with an access route at least 1200mm	825	775
External doors to be used by the general public	1000	775

## **Visibility Requirements:**

- **If completely glazed:** between 500mm and 1500mm from the floor must be visible.
- **If the door has a mid rail:** between 500mm and 800mm then 1150mm and 1500mm from the floor must be visible.
- **Manual controls** (push pads etc) must be between 750mm and 1000mm from floor level and set back 1400mm from the leading edge of the door when fully open.
- **Manifestation:** Clearly defined with manifestation on the glass at 2 x levels - 850 to 1000mm and 1400 to 1600mm contrasting with the glass from both sides and in all lighting conditions



# Notes

Disclaimer - All Pictures and Wording in this document remains the property of Global Automatics Ltd. All information is based on the opinion of the writer and does not constitute the company view. This collection of information has been collated as a "help guide" and should not be used as a sole source when researching automatic doors. All information should be taken as an opinion not as fact as you should consult the relevant governing bodies before using this information for specifying/ estimating. Global Automatics cannot be held responsible for any errors in this document and reserve the right to make amendments where deemed necessary.

For more information on the BS7036:1996 please go to [www.bsigroup.co.uk](http://www.bsigroup.co.uk) where you can purchase a full copy of this British standard or the Automatic door suppliers association – [www.adsa.org.uk](http://www.adsa.org.uk)