

## introduction

This comprehensive range of Door Controls feature varying power sized units for many different door applications. They come with a choice of architectural covers which are each available in 26 different plated or colour coated finishes.

To help select the correct closer for you, each unit has a listing showing their key features, certification numbers and fire ratings.

Plated arms are available on certain units only, and test certificates are available upon request.

## cover options



90 cover



91 cover



92 cover



93 cover



94 cover

## finishes



SE

silver  
sprayed

GE

gold  
sprayed

BE

bronze  
brown

PB

polished  
brass

SC

satin  
chrome

PC

polished  
chrome

SS

satin  
stainless

PS

polished  
stainlessRAL  
9002ivory  
coast (IC)RAL  
1023mellow  
yellow (MY)RAL  
1004daffodil  
yellow (DY)RAL  
3003flame red  
(FR)RAL  
3005bordeaux  
red (BR)RAL  
3007plum red  
(PR)RAL  
8017burnt  
sienna (BS)RAL  
8017chocolate  
brown (CB)RAL  
8019burnt oak  
(BO)RAL  
9005raven  
black (RB)RAL  
7043slate grey  
(SG)RAL  
7036elephant  
grey (EG)RAL  
7036silver grey  
(SGR)RAL  
9016snow white  
(SW)RAL  
5002royal blue  
(RBL)RAL  
5003denim  
blue (DB)RAL  
5003deep blue  
(DBL)RAL  
6009bottle  
green (BG)RAL  
6016emerald  
green (EG)RAL  
6014olive green  
(OG)

## BS EN1154 classification

This standard classifies door closers using a 6 digit coding system. Each digit relates to a particular feature of the product measured against the standards performance requirements.

digit (1) - category of use

'3' denotes the unit is for closing doors from at least 105°

'4' denotes the unit is for closing doors from 180° open

digit (2) - durability

'8' successfully completed 500,000 test cycles

digit (3) - test door mass/size

seven grades are identified as shown in the table below (where a closer provides a range of power sizes both the minimum and maximum sizes shall be shown):

power size	test door mass	recommended door leaf width
1	20kg	750mm
2	40kg	850mm
3	60kg	950mm
4	80kg	1100mm
5	100kg	1250mm
6	120kg	1400mm
7	160kg	1600mm

digit (4) - fire behaviour

'0' denotes the unit is **NOT** suitable for use on fire/smoke doors

'1' denotes the unit **IS** suitable for use on fire/smoke doors

digit (5) - safety in use

'1' all door closer units are required to satisfy the essential requirement of safety in use.

digit (6) - corrosion resistance

'0' - indicates no defined corrosion resistance

'1' - indicates mild corrosion resistance

'2' - indicates a moderate level of corrosion resistance

'3' - indicates high corrosion resistance

'4' - indicates very high corrosion resistance

Within this section units have been tested to BS EN1154, with many units also having been tested to current Certifire testing and C E test criteria. Therefore, the 6 digit classification is shown against each of the varying units, thus indicating their performance and grading under BS EN1154.

An example of the grading for a 1559 closer unit would be as follows:

3	8	4	1	1	3
(1)	(2)	(3)	(4)	(5)	(6)

## GR110 cam action closer size 3 fully DDA (Doc M) compliant



### key features

Heart-shaped cam and the linear drive mechanism ensure the resistance encountered decreases almost instantly with the door opening action – so even children, the elderly and people with disabilities have no problem in opening the door. User-friendly and reliable closing is also ensured by the delayed increase in the actuating torque at the 'latching' end of the sweep. Easy to fix without mounting backplate.

Non-handed.

Four installation arrangements with one model. Proven quality manufacture for long service life. Proven technology of the heart-shaped cam. Cost-efficient slide channel door closer for interior doors.

Convenient, low-resistance opening with fully controlled closing.

Two regulating valves for precise adjustment of closing speed.

Available with hold-open and cushioned limit stay options.

This product meets the requirements of EN 1154 and is intended for use on general doors.

Quality-assured manufacture registered to ISO 9001, EN 29001, BS 5750. Certified and verified by BSI Quality Assurance Reg. No. Q 6423, FM 10756.

The product conforms to the safety and quality standards of the European Community (CE mark (Conformité Européen)).

### specification

CE Certified Number	0432
Certifire Approved	CF413
DDA (Doc M) Compliant	yes
Meets EN1154	yes
Fire Tested to EN1634	yes
Power Size	3
Application	universal
Arm Assembly	slide channel
Architectural Cover	90, 91 & 93 cover option
Closing Speed	adjustable
Latch Action	adjustable
Stand Open Option	yes (NOT for use on fire doors)
Backcheck	no
Delayed Action	no
Guarantee	10 years

	silver	plated	colours
90/91/93 Covered Unit	110	110	110
	##.##	##.##	##.##
*c/w Stand Open Armset	110SO	110SO	110SO
	##.##	##.##	##.##
**c/w Cushioned Limit Stay	110LS	110LS	110LS
	##.##	##.##	##.##



110-91PC



110-90SE



110-93SE



## 1559 budget closer size 2 - 4

### key features

C E Tested

Closing Force Size 2 - 4 (EN1154)

Maximum Door Width 850 - 1100mm

Suitable for Doors 40 - 80kg

Adjustable Latch Action

Universal Application (fig 1, fig 66 & fig 61)

Fire Tested to BS EN1634-1

1½ Hour Fire Rated

Self Handing (fits to left or right hinged doors)

180° Opening (retains control of door when opened 180°)

### specification

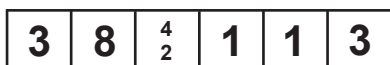
C E Certified Number	1239
Meets EN1154	yes
Fire Tested to EN1634	90 mins
Power Size	2 - 4
Application	universal
Arm Assembly	projecting arm
Architectural Cover	mechanism only or 92 cover
Closing Speed	adjustable
Latch Action	adjustable
Stand Open Option	yes (NOT for use on fire doors)
Backcheck	no
Delayed Action	no
Guarantee	10 years

	SE/GE	plated	colours
Mechanism Only	1559	-	-
	18.50	-	-
92 Covered Unit	92-1559	92-1559	92-1559
	30.72	42.99	30.72

92-1559PB



1559



1239

## GR150 budget closer size 3 - 4

### key features

Certifire Approved CF290

Closing Force Size 3 - 4 (EN1154)

Maximum Door Width 950 - 1100mm

Suitable for Doors 60 - 80kg

Adjustable Check Action

Universal Application (fig 1, fig 66 & fig 61)

Fire Tested to BS EN1634-1

1 Hour Fire Rated

Self Handing (fits to left or right hinged doors)

180° Opening (retains control of door when opened 180°)

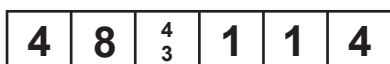
### specification

Certifire Approved	CF290
Meets EN1154	yes
Fire Tested to EN1634	1 hour
Power Size	2 - 4
Application	universal
Arm Assembly	projecting arm
Cover Type	silver slide cover
Check Action	adjustable
Latch Action	adjustable
Stand Open Option	yes (NOT for use on fire doors)
Backcheck	no
Delayed Action	no
Guarantee	10 years

	silver slide cover
Mechanism Only	150
	50.00



150



## GR100 closer unit size 2 - 4

### key features

C E Tested  
 Certifire Approved CF310  
 Closing Force Size 3 - 4 (EN1154)  
 Maximum Door Width 850 - 1100mm  
 Suitable for Doors 40 - 80kg  
 Universal Application (fig 1, fig 66 & fig 61)  
 Fire Tested to BS EN1634  
 2 Hour Fire Rated  
 Adjustable Check Action  
 Independant On/Off Latch Action  
 Self Handing (fits to left or right hinged doors)  
 180° Opening (retains control of door when opened 180°)  
 3 Cover Options Available for this Unit

3	8	4	1	1	2
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0432

### specification

C E Certified Number 0432  
 Certifire Approved CF310  
 Meets EN1154 yes  
 Fire Tested to EN1634 2 hours  
 Power Size 3 - 4  
 Application universal  
 Arm Assembly projecting arm  
 Architectural Cover 90, 91 & 93 cover option  
 Check Action adjustable  
 Closing Speed adjustable  
 Stand Open Option yes  
 (NOT for use on fire doors)  
 Backcheck no  
 Delayed Action no  
 Guarantee 10 years

	SE/GE	plated	colours
90 Covered Unit	100-90	100-90	100-90
	42.04	56.13	42.04
91 Covered Unit	100-91	100-91	100-91
	42.04	56.13	42.04
93 Covered Unit	100-93	100-93	100-93
	42.04	56.13	42.04



100-91PC



100-90SE 100-93SE

## 30 closer unit size 2 - 4 backcheck & delayed action

### key features

C E Tested  
 Closing Force Size 2 - 4 (EN1154)  
 Maximum Door Width 850 - 1100mm  
 Suitable for Doors 40 - 80kg  
 Adjustable Check Action  
 Adjustable Delayed Action  
 Backcheck Standard  
 Independant On/Off Latch Action  
 Universal Application (fig 1, fig 66 & fig 61)  
 Self Handing (fits to left or right hinged doors)  
 180° Opening (retains control of door when opened 180°)  
 4 Cover Options Available for this Unit  
 Available with Matching Plated Armsets\*  
 (\*please specify when ordering)

4	8	4	1	1	3
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1121

### specification

C E Certified Number 1121  
 Meets EN1154 yes  
 Fire Tested to EN1634 1 hour  
 Power Size 2 - 4  
 Application universal  
 Arm Assembly projecting arm  
 Architectural Cover 90, 91, 93 & 94 cover option  
 Closing Speed adjustable  
 Latch Action adjustable  
 Stand Open Option yes  
 (NOT for use on fire doors)  
 Backcheck yes  
 Delayed Action yes  
 Guarantee 10 years

	SE/GE	plated	*MA	colours
90 Covered Unit	9030	9030	9030	9030
	51.07	67.30	87.50	51.07
91 Covered Unit	9130	9130	9130	9130
	51.07	67.30	87.50	51.07
93 Covered Unit	9330	9330	9330	9330
	51.07	67.30	87.50	51.07
94 Covered Unit	9430	9430	9430	9430
	51.07	67.30	87.50	51.07

9130PBMA



9030PCMA 9130PC



9330SE 9430SE

## 41 closer unit size 2 - 5 backcheck standard

### key features

C E Tested  
 Closing Force Size 2 - 5 (EN1154)  
 Maximum Door Width 850 - 1250mm  
 Suitable for Doors 40 - 100kg  
 Adjustable Check Action  
 Adjustable Latch Action  
 Backcheck Standard  
 \*Optional Delayed Action  
 \*\*Stand Open Option Available  
 Universal Application (fig 1, fig 66 & fig 61)  
 Self Handing (fits to left or right hinged doors)  
 180° Opening (retains control of door when opened 180°)  
 3 Cover Options Available for this Unit

4	8	5	1	1	3
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1121

### specification

C E Certified Number 1121  
 Meets EN1154 yes  
 Fire Tested to EN1634 1 hour  
 Power Size 2 - 5  
 Application universal  
 Arm Assembly projecting arm  
 Architectural Cover 90 & 91 cover option  
 Closing Speed adjustable  
 Latch Action adjustable  
 Stand Open Option yes  
 (NOT for use on fire doors)  
 Backcheck yes  
 Delayed Action optional  
 Guarantee 10 years

	silver	plated	colours
90/91 Covered Unit	41	41	41
	86.69	104.46	90.40
*c/w Delayed Action (DA)	41DA	41DA	41DA
	94.60	112.37	98.31
**c/w Stand Open (SO)	41SO	41SO	41SO
	96.70	114.47	100.41

9141PC



9041SE

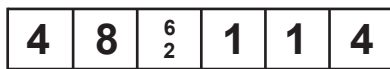
## 61 closer unit size 2 - 6 asymmetric guide rail system

### key features

Asymmetric Guide Rail System  
 Infinitely Adjustable Closing Force  
 Fire Tested to BS EN1634-1  
 1 Hour Fire Rated  
 Maximum Door Width 850 - 1400mm  
 Suitable for Doors 40 - 120kg  
 Infinitely Adjustable Check Action  
 Infinitely Adjustable Latch Action  
 Infinitely Adjustable Backcheck (optional)  
 Delayed Action (optional)  
 Electro-Magnetic Option  
 Self Handing (for left or right hinged doors)  
 180° Opening  
 Multi-Functional Unit  
 Stand Open Option Available  
 Selector Option Available  
 Smoke Detection Option Available  
 Cover Options '91' Only Available for this Unit  
 The rapidly falling opening movement ensures the door can be opened with ease

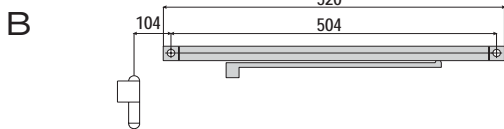
### specification

C E Certified Number 0432  
 Meets EN1154  
 Fire Tested to EN1634  
 Power Size 2 - 6  
 Application universal  
 Arm Assembly slide channel  
 Architectural Cover 91 cover only  
 Closing Speed adjustable  
 Latch Action adjustable  
 Stand Open Option yes  
 (NOT for use on fire doors)  
 Backcheck adjustable  
 Delayed Action optional  
 Guarantee 10 years

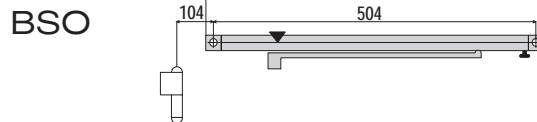


	silver	plated	colours
9161B	9161B	9161B	9161B
	<b>134.69</b>	<b>152.46</b>	<b>138.40</b>
9161BSO	9161BSO	9161BSO	9161BSO
	<b>134.69</b>	<b>152.46</b>	<b>138.40</b>
9161S	9161S	9161S	9161S
	<b>143.28</b>	<b>161.05</b>	<b>146.99</b>
9161SHO	9161SHO	9161SHO	9161SHO
	<b>153.29</b>	<b>171.06</b>	<b>157.00</b>
9161EF	9161EF	9161EF	9161EF
	<b>294.50</b>	<b>312.27</b>	<b>298.21</b>
9161EFR	9161EFR	9161EFR	9161EFR
	<b>622.46</b>	<b>640.23</b>	<b>626.17</b>
9161SR	9161SR	9161SR	9161SR
	<b>284.60</b>	<b>302.37</b>	<b>287.81</b>
9161SPEFR	9161SPEFR	9161SPEFR	9161SPEFR
	<b>719.71</b>	<b>737.38</b>	<b>722.92</b>

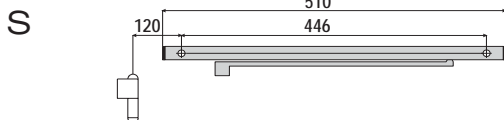
### asymmetric guide rail options



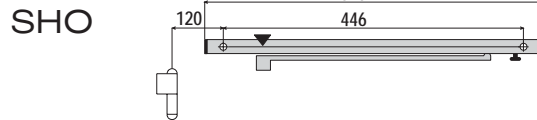
Basic screw fixing guide rail which can be used with 11, 12 & 61 Units  
**Please note:** Only use with 61 Unit when applying to fire doors



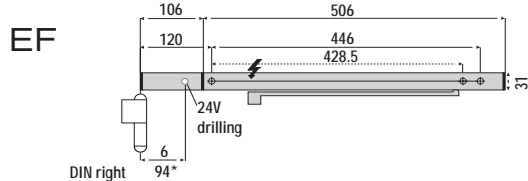
Basic screw fixing guide rail which can be used with 11, 12 & 61 Units  
 Hold-open angle adjustable between approx. 70° and 150°  
**Please note:** Not suitable for use on fire doors



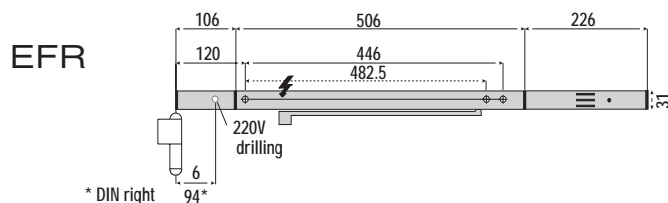
Concealed fixing guide rail applied with mounting kit for use with 61 Unit  
**Please note:** Only use with 61 Unit when applying to fire doors



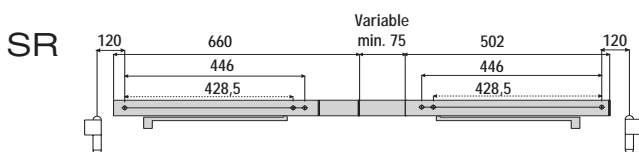
Concealed fixing guide rail applied with mounting kit for use with 61 Unit  
 Hold-open angle adjustable between approx. 70° and 150°  
**Please note:** Not suitable for use on fire doors



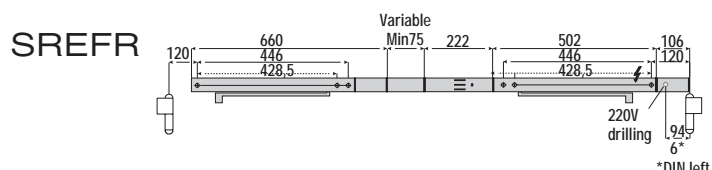
Guide rail with electro-magnetic hold open. Wired through alarm or fail safe. Electro-magnetic hold-open angle adjustable between approx. 70° and 130°. Current 24Vdc 1W power consumption when in open position. For use with 61 Unit  
**Please note:** Suitable for use on fire doors



Guide rail with electro-magnetic hold open and smoke detector, with the same specification as the EF model, except the drive is affected by the smoke detector. For use with 61 Unit.  
**Please note:** Suitable for use on fire doors



Guide rail for double doors with selector option. For use with 61 Unit.  
**Please note:** When ordering selector option, please take into account door width.



Guide rail for double doors with selector option, 2 electro-magnetic hold open devices and smoke detector. Stand open adjustable between 70° and 130° approx. 24Vdc operation. For use with 61 Unit.  
**Please note:** When ordering selector option, please take into account door width.

## floor springs

### finishes



polished  
brass



satin  
stainless



polished  
stainless



#### specification

Meets EN1154	yes
Fire Tested to EN1634	1/2 - 2 hours
Power Size	1 - 4
Operation	double cam action
Application	single or double action timber or metal doors internal use
Maximum Door Weight	300kg
Thermo Constant	yes
Cover Plates	SSS, PSS or PB
Backcheck Standard	yes
Delayed Action	yes
Check Action	adjustable
Latch Action	adjustable
Stand Open Option	yes (NOT for use on fire doors)
Guarantee	5 years

3	8	4	1	1	3
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This universal power adjustable unit offers strength and versatility. Suitable for both single and double applications, it meets all of today's exacting standards.

## single action application

	item	plated
9601 Single Action Complete (PB, SS or PS)	-	9601
	-	275.00
9601SO Single Action Stand Open Complete (PB, SS or PS)	-	9601BSO
	-	288.00
9601M Universal Mechanism Only	9601M	-
	200.00	-
9601MSO Universal Stand Open Mechanism	9601MSO	-
	234.00	-
9644SA Single Action Strap	-	9644SA
	-	29.85
9645SA Single Action Top Centre	-	9645SA
	-	43.75
9630 Cover Plate (PB, SSS or PSS)	-	9630
	-	31.20
9601DA Single Action Mech. with Delayed Action	9601DA	-
	295.00	-
9650 Gel Sealing Pack	9650	-
	25.00	-
9655 Extended Spindles (5 - 50mm)	9655	-
	20.00	-

## double action application

	item	plated
9602 Double Action Complete (PB, SS or PS)	-	9602
	-	275.00
9602SO Double Action Stand Open Complete (PB, SS or PS)	-	9602SO
	-	288.00
9601M Mechanism Only	9601M	-
	200.00	-
9601MSO Universal Stand Open Mechanism	9601MSO	-
	234.00	-
9644DA Double Action Strap	9644DA	-
	23.00	-
9645DA Double Action Top Centre	-	9645DA
	-	44.46
9630 Cover Plate (PB, SSS or PSS)	-	9630
	-	31.20
9602DA Double Action Mech. with Delayed Action	9602DA	-
	295.00	-
9650 Gel Sealing Pack	9650	-
	25.00	-
9655 Extended Spindles (5 - 50mm)	9655	-
	20.00	-

**note:** Mechanical stand-open units are not recommended for use on fire doors.

**note:** It is recommended to apply gel sealing packs in extreme situations such as hospitals, swimming pools, health clubs, marine areas etc. to help prevent against corrosion.

**note:** Guaranteed for 5 years against faults in manufacture or material in the UK, Isle of Man & Channel Isles. Warranty extends to correct size and application.

## electro magnetic floor spring



#### specification

Meets EN1154	yes
Power Size	4
Application	single or double action timber or metal doors internal use
Cover Plates	SSS, PSS or PB
Backcheck Standard	yes
Latch Action	no
Power Supply	24V DC
Wiring	supplied c/w 1m conduit, 3m flexible cable and connections
Guarantee	10 years

3	8	4	1	1	3
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## single or double action application:

for use where a fire door is required to remain open but close in the event of fire or power failure

	item	plated
9610 Single Action Complete	-	9610
	-	815.00
9620 Double Action Complete	-	9620
	-	815.00
9610M Universal Electro Mag Mechanism Only	9610M	-
	740.00	-
9644SA Single Action Strap	-	9644SA
	-	29.85
9645SA Single Action Top Centre	-	9645SA
	-	43.75
Double Action Strap	9644DA	-
	23.00	-
9645DA Double Action Top Centre	-	9645DA
	-	44.46
9630 Cover Plate (PB, SS or PS)	-	9630
	-	31.20
9646 Transformer Rectifier/Fuse (1-10 Units)	9646	-
	186.00	-
9647 Transformer Rectifier/Fuse (1-30 Units)	9647	-
	220.00	-
9648 Transformer Rectifier/Fuse (1-50 Units)	9648	-
	259.00	-

## surface mounted spring closer



Surface Mounted Spring Type Closer.  
Spring Tension Closing Force Adjustable.  
White, Brass, Satin Chrome and Polished Chrome Finishes Available.

White	Brass	Satin Chrome	Pol. Chrome
GR99WE	GR99PB	GR99SC	GR99PC
###	###	###	###

## concealed chain door closer

Concealed Spring Type Closer.  
Spring Tension Closing Force Adjustable.  
Certified to BS 476 Pt. 22:1987  
(1/2 hour Fire Rated)  
Left or Right Hand Fitting.  
Suitable for use on Doors up to 50kg.  
Nickel and Brass Plated Finishes Available.



Brassed	Nickel Plated
PR8006EB	PR8006NP
3.15	3.15

## powermatic concealed size 3 door closer

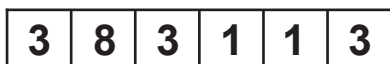
### key features

CE Marked  
Closing Force Size 3 (EN1154)  
1/2 hour Fire Tested  
Suitable for Doors up to 80kg  
Suitable for Doors up to 950mm wide  
Suitable for Latched and Unlatched Installations  
Adjustable Closing Speed and Latching Action  
Endurance tested to 500,000 Closing Cycles  
Unique Twin Power Mechanism  
Protected by Worldwide Patents

### specification

CE Certified Number  
Certifire Approved  
Meets EN1154  
Fire Tested to EN1634  
Power Size  
Application  
Closing Speed  
Latch Action  
Guarantee

1121  
CF370  
yes  
yes  
3  
jamb mounted  
adjustable  
adjustable  
10 years



1211

	brass	chrome	satin chrome	bronze
powermatic	R100	R100CP	R100SC	R100BMA

see separate list for prices and discounts

R100



## perkomatic double chain concealed door closer

### key features

1/2 hour & 1 hour Fire Tested  
Suitable for Doors up to 75kg  
Suitable for Latched and Unlatched Installations  
Adjustable Closing Speed and Latching Action  
Endurance tested to 500,000 Closing Cycles

### specification

Application  
Check Action  
Latch Action  
Stand Open Option  
Guarantee

jamb mounted  
adjustable  
adjustable  
optional  
10 years

	brass	chrome	satin chrome	bronze
perkomatic	R85	R85CP	R85SC	R85BMA

see separate list for prices and discounts

R85



## perko single chain concealed door closer

### key features

1/2 hour & 1 hour Fire Tested  
Suitable for Doors up to 50.8kg  
Suitable for Latched Installations  
Endurance tested to 500,000 Closing Cycles

### specification

Application  
Check Action  
Latch Action  
Stand Open Option  
Guarantee

jamb mounted  
adjustable  
adjustable  
optional  
10 years

	brass	chrome	satin chrome	bronze
with square forends	R2	R2CP	R2SC	R2BMA
with radius forends	R1	R1CP	R1SC	R1BMA

see separate list for prices and discounts

PERKO





## automatic door operators

### 2005

#### key features

The 2005 is a Low Energy operator intended for light duty swing doors. This really is a truly innovative design which has many features including battery back-up in event of Power failure. The ability to select Push & Go or Low Energy operation mode. The Low Energy facility makes the 2005 Sprint particularly suitable in Hospitals, County Councils, Borough Councils, Nursing Homes and Public Buildings where Elderly and Disabled access is required.

A particular safety feature of the 2005 Sprint ensures that if it meets an obstruction on its closing cycle it will immediately re-open before automatically closing slowly whilst searching for obstruction. On the opening cycle the reverse occurs.

#### Prices upon application

#### technical information

dimensions  
maximum range  
operation  
box/housing  
opening system  
closing system  
opening speed  
closing speed  
power supply  
power input  
motor  
emergency power supply  
electric lock power supply  
anti-crush device  
limit-switch system  
adjustments  
power supply for access.  
controls

push and go  
low energy

L450 x H80 x W90mm  
80kg  
continuous duty  
black ABS  
motor driven  
by motor  
1.5 to 3 seconds  
set at 70% of full speed for opening  
230V=/50Hz  
0.2A max.  
12V  
yes  
1.2A  
standard  
automatic with encoder  
automatic closing/speed of movement  
24V=/0.5A  
enabling of automatic closing, opening, closing,  
safety reverse, stop, reset  
can be selected with dip switch  
can be selected with dip switch



### 2006

#### key features

The 2006 is a robust low Energy operator for swing doors. The 2006 is for doors up to 100kg, which are subjected to continuous use and is particularly suitable for use in Hospitals, County Councils, Nursing Homes and Public Buildings where elderly and disabled access is required.

With its geared motor the opening-closing speed adjustments are under constant control with an anti-crush feature for maximum safety. With motor driven opening and spring operated closing, the 2006 can be used for Fire Exit doors and is ideal for installations requiring gentle and easy movement rather than great force.

#### Prices upon application

#### technical information

dimensions  
maximum range  
operation  
box/housing  
opening system  
closing system  
opening speed  
closing speed  
power supply  
power input  
motor  
emergency power supply  
electric lock power supply  
anti-crush device  
limit-switch system  
adjustments  
power supply for access.  
controls  
push and go  
low energy

L560 x H127 x W116mm  
100kg  
continuous duty  
box extruded aluminium  
motor driven  
by spring  
3 to 5 seconds  
4 to 8 seconds (adjustable)  
230V=/50Hz  
1A max.  
24V  
-  
1.2A  
yes  
during opening  
automatic closing/speed of movement  
24V=/0.5A  
opening  
yes  
yes



### 2009

#### key features

Regulation of opening and closing speeds  
Regulation of acceleration and decelerations  
Safety sensor inhibiting distance in opening mode  
Pushing thrust limitation

Wind stop force intensity

Push and go activation distance

Intensity of final thrust on closing phase to ensure electric lock is latched

Activation of the functions can be selected via the on board 3 way switch on the lateral side of the operator, manual key switch or via a digital selector

Programming the functions and parameters can be done by the on board dip switch or via the digital function selector

The regulation of the opening angle (maximum 95°) must be adjusted at the initial installation of the operator

In a power fail situation it can be opened by hand and closed by spring

Door stand open

One or two way traffic

Night lock

Synchronisation of two operators

Cyclic opening and closing

#### Prices upon application

The new 2009 Silent Runner Automatic Swing Door Operator is designed for continuous use and is safe, sensitive, silent and reliable.

This operator can be programmed to suit all applications: as an automatic low energy operator where elderly and disabled people use the doors frequently or a high volume automatic commercial operator on a busy airport - it also has the built in intelligence to install a full range of extra safety sensors if required.

Achieving compliance with the Disability Discrimination Act 1995 (DDA) and the European Directive the state of the art control panel makes the 2009 Silent Runner one of the safest and most sensitive automatic swing door operators on the market today.

#### technical information

dimensions  
weight of operation  
opening system  
closing system  
drive  
synchronisation  
maximum opening  
power requirements  
protection  
opening time adjustment  
separate Inputs

output  
power failure  
push & go  
adjustments  
release time

L 545 x H107 x W100mm  
12kg  
manual open by hand  
by spring  
for one door  
two operators  
95°  
230V AC/50Hz;  
IP22  
0-20 sec pause  
for motion detectors, presence sensors  
and photocells  
DC for auxiliary sensors and electric lock  
doors close by spring  
automatic opening by pushing  
via control unit or digital selector  
0.5 sec for lock before opening of door

