

# 9

## Door closers/operators

**ABLOY® Automatic Swing Door Operators provide an efficient, reliable, sophisticated and safe means of opening a hinged door automatically. ABLOY door closers are of the highest quality with models meeting both European and American standards.**



Tried and tested over many years, ABLOY Automatic Swing Door Operators are used extensively within both public and private housing for the disabled and the elderly. There are various models for standard, lightweight and heavy duty fire doors, each offering an extensive range of functions.

The Disability Discrimination Act means that in the majority of public and indeed many commercial buildings, the provision of easy access and egress is a legal requirement. When installed in conjunction with ABLOY motor locks or selected solenoid locks, automatic swing door operators provide effective, hands-free access control without compromising security.

Our complete range of door closers featured within this section are produced using the most up to date manufacturing techniques and materials. Versatile and easy to install, they conform to BS EN 1154 standards, Grades 1-6.

Automatic swing door operators



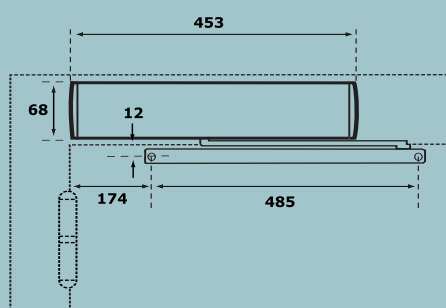
DA300/L	DA300/S
For lightweight, medium traffic interior doors. Pull function	As DA300/L but push function

**Features**

- Motor driven opening and closing
- Protected against mechanical overload
- Integral control of electric locks (24VDC output)
- Easy to install
- Can be mounted to wall (or door leaf if AC supply disconnected)
- Vandal resistant clutch mechanism
- Quiet operation
- Compact, slimline design
- 'Push and go' function
- Built in back check
- Operates with pressure pads, push button switches, card readers and radar (infra-red and microwave)
- Low resistance when door is opened manually
- Lock control relay with NO/NC contacts
- Secondary DC inlet power back up
- Supplied complete with arm and mounting plate
- NB Products are supplied on condition they are installed by trained ABLOY door operator installers*

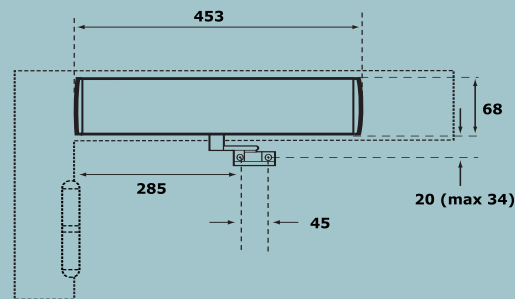
**DA300/L**

Pull function (sliding arm)



**DA300/S**

Push function (standard arm)



**SPECIFICATION**

*Max door widths and weights*

<b>Standard arm</b>	1000mm - 60kg
<b>Sliding arm</b>	1000mm - 40kg

*Technical details*

<b>Supply voltage</b>	115/230VAC ±15%, 50 to 60hz
<b>Power consumption</b>	85W
<b>Weight</b>	3.1kg
<b>Operating temperature</b>	0°C to +40°C
<b>Corrosion resistance</b>	IP20
<b>Output voltage</b>	24VDC (0.5A)
<b>Hold-open time</b>	0-60 seconds
<b>Opening angle (max)</b>	100° (90° with pull arm mounted on closing side)

**OPTIONS AND ACCESSORIES**

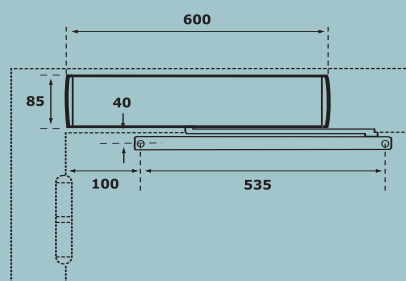
<b>Standard arm (push type)</b>	7190
<b>Sliding arm (pull type)</b>	DC194
<b>Handing</b>	Non handed
<b>Mounting plate</b>	DA101
<b>Finish</b>	Silver



DA361/L	DA361/S
For heavy duty, high traffic exterior/interior fire doors. Pull function	As DA361/L but push function

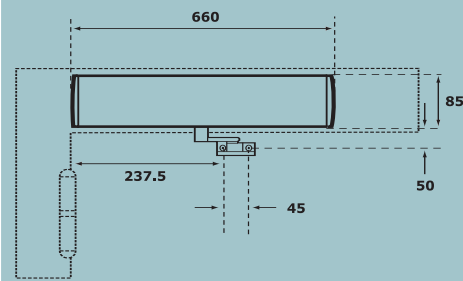
### DA361/L

Pull function (sliding arm)



### DA361/S

Push function (standard arm)



#### Features

- Motor driven opening, closed hydraulically
  - Protected against mechanical overload
  - Integrated control of electric locks (24VDC output)
  - Easy to install
  - Vandal resistant clutch mechanism
  - Quiet operation
  - Compact, slimline design
  - 'Push and go' function
  - Operates with pressure pads, push button switches, card readers and radar (infra-red and microwave)
  - Low resistance when door is opened manually
  - Lock control relay with NO/NC contacts Secondary DC inlet power back up
  - Supplied complete with arm and mounting plate
- NB Products are supplied on condition they are installed by trained ABLOY door operator installers*

#### SPECIFICATION

<b>Max door widths and weights</b>	
<b>Standard arm</b>	1000mm - 125kg 1150mm - 100kg 1300mm - 90kg
<b>Sliding arm</b>	900mm - 100kg 1000mm - 90kg 1100mm - 80kg
<b>Technical details</b>	
<b>Supply voltage</b>	100/115/230VAC ±10%, 50 to 60hz
<b>Power consumption</b>	100W
<b>Weight</b>	9.1kg
<b>Operating temperature</b>	-10°C to +60°C
<b>Corrosion resistance</b>	IP20
<b>Output voltage</b>	24VDC (0.5A)
<b>Hold-open time</b>	0-60 seconds
<b>Opening angle (max)</b>	100° (90° with pull arm mounted on closing side or 110° with pull arm on opening side)

#### OPTIONS AND ACCESSORIES

<b>Standard arm (push type) Max door frame depth 150mm</b>	DA156
<b>Standard arm (push type) Max door frame depth 150-250mm</b>	DA157
<b>Sliding arm (pull type)</b>	DA158
<b>Handing</b>	Non handed
<b>Mounting plate</b>	DA102
<b>Finish</b>	Silver

Automatic swing door operators

DA400/L	DA400/S
For high traffic exterior/interior doors. Pull function	As DA400/L but push function



**Features**

Motor driven opening and closing

Protected against mechanical overload

Integral control of electric locks (12 and 24VDC outputs)

Comprehensive programming of door via digital display

Infra-red handset available for remote programming

28 functions (adjustable) including:

- opening and closing speed, force and angle
- opening times for each activator
- seal force elimination
- integral safety feature – door stops for 3 secs if obstacle detected and re-opens if required
- closing sequence (e.g. interlocks)

Battery back-up available (fitted with battery adaptor)

Vandal resistant clutch mechanism

Operates with pressure pads, push button switches, card readers and radar (infra-red and microwave)

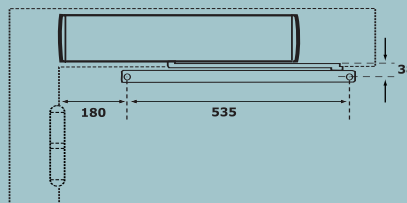
For surface or concealed applications

Supplied complete with arm and mounting plate

*NB Products are supplied on condition they are installed by trained ABLOY door operator installers*

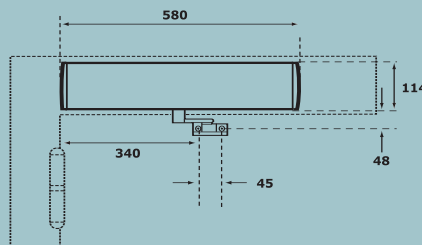
**DA400/L**

Pull function (sliding arm)



**DA400/S**

Push function (standard arm)



**SPECIFICATION**

*Max door widths and weights*

<b>Standard arm</b>	1000mm - 120kg 1150mm - 100kg 1300mm - 90kg
---------------------	---

<b>Sliding arm</b>	1000mm - 80kg 1150mm - 70kg 1300mm - 60kg
--------------------	---

*Technical details*

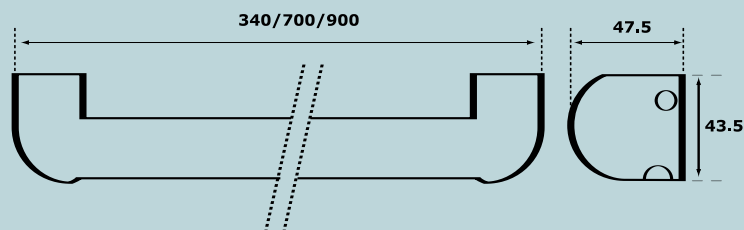
<b>Supply voltage</b>	230VAC, 50hz (10amp fuse)
<b>Power consumption</b>	50W
<b>Weight</b>	7kg
<b>Operating temperature</b>	-10°C to +50°C
<b>Corrosion resistance</b>	IP20
<b>Output voltage</b>	12VDC (0.5A) 24VDC (0.8A)
<b>Hold-open time</b>	0-60 seconds
<b>Opening angle</b>	100° max

**OPTIONS AND ACCESSORIES**

<b>Standard arm (max frame depth 150mm)</b>	7281
<b>Standard extended arm (max frame depth 150-250mm)</b>	7282
<b>Sliding arm (pull type)</b>	7611
<b>Handing</b>	Non handed
<b>Mounting plate</b>	DA100
<b>Battery</b>	12V: 7891 24V: DA130
<b>Extension pieces (to lower arm)</b>	
10mm	7285/01
20mm	7285/02
60mm	7285/06
<b>Finish</b>	Silver (brass and white to special order)

**Series 810**

High Performance  
Infra-red  
Safety Sensor  
System



**Versions**

**810/71**  
Master (340mm)

**810/72**  
Master + Slave  
(700mm overall)

**810/73**  
Master + 2 Slaves  
(900mm overall)

**Features**

- Strongly recommended when installing operators
- Fast detection speed stops door fast
- Insensitive to colour variations
- Insensitive to reflectivity of ground
- Precise infra-red technology
- Door stops or re-opens if sensor activated
- Immune to electrical and radio frequency
- Vandal-proof – if blinded, door goes to safety mode
- Range adjustable by rotating cam
- Easy installation and adjustment
- Not IP rated
- Finish: SAA with black lens

**Technical Specification**

- Supply voltage:  
Relay output 12-24 AC/DC  
(± 10%)
- Relay output:  
Maximum constant rating - 1A  
under 30V (resistive)
- Current consumption:  
on 60mA max  
off 30mA max
- Standard output-relay with  
switch over contact (voltage  
free)
- Detection range:  
0.7m to 2.5m (adjustable)
- Detection mode – presence (or  
motion)
- Response time: < 50ms
- Max voltage: 30VDC
- Max current: 100mA
- Output hold time: 0.1 sec – 4.5  
secs (adjustable)

**Eagle 2**

Bi-directional sensor



**Features**

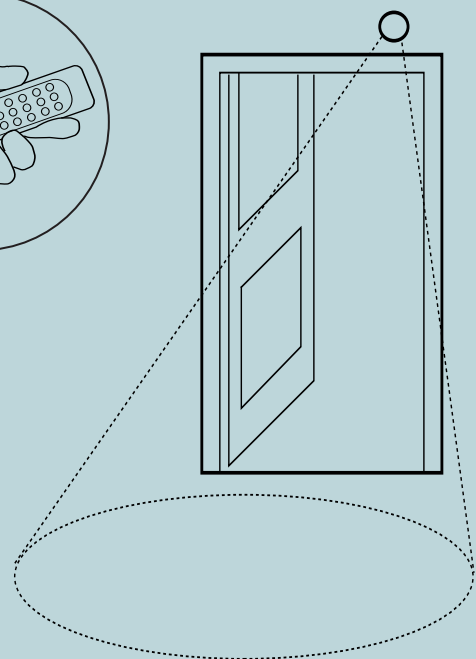
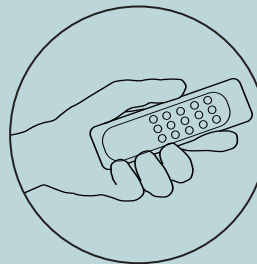
- Sophisticated design
- Digital technology
- Very wide sensing field
- Tilt angle:  
From 0° to 90° vertical  
From -30° to 30° lateral
- Detection area:  
*Wide field* 4m(W) x 2m(D)  
*Narrow field* 2m(W) x 2.5m(D)
- Compact size: 120mm(W) x 80mm(H) x 50mm(D)
- Virtually vandal-proof
- Fully controlled by coded infrared remote control (supplied separately)
- Remote control adjustment:
  - Sensitivity
  - Hold time
  - Detection direction
- Finish: Anthracite grey

**Accessories**

- ERA - rain protector
- Eagle remote control for easy adjustment, use with ECA remote control sensing unit

**Technical Specification**

- Supply voltage:  
12V to 24VAC ± 10%  
12V to 24VDC +30%/-10%
- Mains frequency: 50-60 hz
- Power consumption:  
<2W
- Max switching power:  
30W (DC)/60VA (AC)
- Temperature: -20°C to +55°C
- EMC compatibility
- Mounting height: 4m max
- Cable length: 2.5m



**TS4**

RQE touch switch



**DA033**

Elbow contact



**PBS.H**

Square push plate



**PBJ.H**

Jamb push plate



**Features**

- Proximity or touch
- No moving parts
- Built in timer (adjustable) 0-45 seconds
- Isolated relay contacts
- Robust housing with single gang back box

**Technical Specification**

- 12VDC
- Current consumption:
  - non-active 40mA
  - active 50mA
- Range adjustable up to 20mm
- Finish: White ABS Cover

**Features**

- For internal use only
- Simple to install
- Dimensions: 180 H x 90 W x 22 D
- Finish: ABS white

**Features**

- Operates with a simple push
- Can be fully recessed
- Mechanical operation
- Waterproof seal
- For internal or external use
- Can be used with remote control when fitted with receiver
- Temperature range: 20°C to +55°C

**When used with EAS RF receiver and transmitter**

- Frequency: 433.92MHz
- Detection distance: 25m (max)
- Supply voltage: 12 to 24VAC ±15%  
24 to 30VDC ±10%
- Power consumption: max 38mA at 24VDC
- Adjustable hold open time: 0.5 to 10 seconds
- Max number of Transmitters: 10
- Finish: Steel face plate, housing stainless steel, black box



Finger protection

Power supply

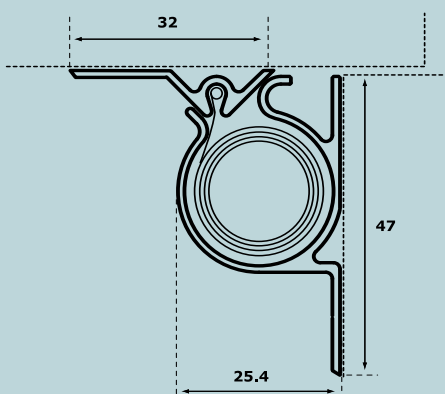


**FP200**

Roller blind system

**PSU-4**

Dual voltage power supply



**Features**

Protects against trapped fingers on inside of door

For use especially with automatic swing door operators

Fits any hinged door

Tested to 200,000 operations

Standard length: 1925mm (other lengths to special order)

Finish: SAA (dark bronze and white to special order), black blind

**Features**

Linear fan assisted

Full short circuit protection

Output rated @ 12VDC 8 Amps - 24VDC 4 Amps

EMC compliant

**Technical Specification**

Supply voltage: 230VAC, 50hz

Auto reset thermal shutdown @ 80°C

Battery protection fuse @ 10 Amps

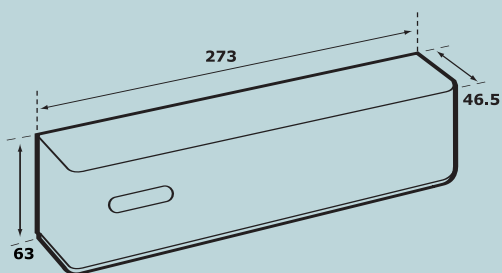
Mains fuse rated @ 2.0 Amps

Enclosure: 283mm (H) x 224mm (W) x 92mm (D)

NB: Enclosure will accommodate a 12V 7Ah battery only. Separate enclosure required for 24VDC back up.

Modul door closers

Modul 7233	Modul 7234	Modul 7235
For light interior doors	For interior and exterior doors	For heavy interior and exterior doors



7233

**Features**

BS EN1154 closing force:  
Class 3 (Class 1 with sliding arm)

Closing and latching speed adjustable

Latching starting point adjustable

Standard or sliding arms available (see page 12)

Easy arm height adjustment (max 14mm)

Operating temperature:  
-35°C to +45°C

Aluminium profile body

Finish: Silver (Brass, white and brown to special order)

7234

**Features**

BS EN1154 closing force:  
Class 4 (Class 2 with sliding arm)

All features of Modul 7233 plus –

Optional back check available  
Ref: 7234(BC)

With adjustable BC starting point

7235

**Features**

BS EN1154 closing force (adjustable):  
Class 3-5 (Class 1-3 with sliding arm)

All features of Modul 7233 and 7234 plus –

Optional delayed closing  
Ref: 7235(DC)

Optional back check  
Ref: 7235(BC)

With adjustable BC starting point

**BS EN1154 requirements**

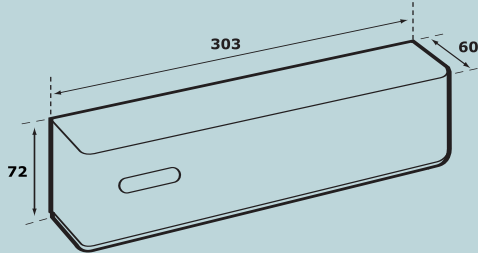
Door closer size (class)	Closing torque Nm (0-4°) min	Recommended max door leaf width (mm)	Door leaf mass (kg) max
1	9	750	20
2	13	850	40
3	18	950	60
4	26	1100	80
5	37	1250	100
6	54	1400	120
7	87	1600	160

**DC Series door closers**

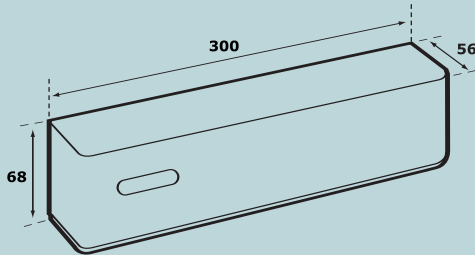
DC241	DC240(BC)	DC250
For interior doors	For interior or exterior doors with heavy use or pressure conditions	For interior or exterior doors with heavy use



**Plastic cover**



**Metal cover**



**DC241**

**Features**

BS EN1154 closing force (adjustable): Class 1-5 (Class 1-2 with sliding arm)

ANSI 156.4 Class 1-5

Closing and latching speed adjustable

Latching starting point adjustable

Operating temperature -35°C to 50°C

For use with standard or sliding arms (see page 12)

Easy adjustment of arm height (14mm max)

A pressure relief valve protects against abuse

Cast aluminium body

Finish  
Plastic covers: Silver (Brass, white, brown and black to special order)

Metal cover: stainless steel

*NB Arm not included*

**DC240(BC)**

**Features**

BS EN1154 closing force (adjustable): Class 2-6 (Class 1-4 with sliding arm)

ANSI 156.4 Class 2-6

All features of DC241 plus –

Back check (BC) standard

Adjustable BC starting point

Optional delayed closing

Ref: DC240(BC+DC)

Two pressure release valves protect against abuse

*NB Arm not included*

**DC250**

**Features**

BS EN1154 closing force (adjustable): Class 1-5

For use with sliding arm (DC194) only

All features of DC241/240 plus:

Non handed

Can be installed to door or frame

Cam action ensures ease of opening

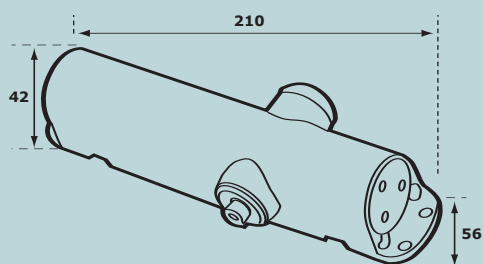
*NB Arm not included*

**BS EN1154 requirements**

Door closer size (class)	Closing torque Nm (0-4°) min	Recommended max door leaf width (mm)	Door leaf mass (kg) max
1	9	750	20
2	13	850	40
3	18	950	60
4	26	1100	80
5	37	1250	100
6	54	1400	120
7	87	1600	160

**DC210**

For  
lightweight  
interior  
doors



**Features**

BS EN1154 closing force (adjustable):  
Class 2-3

Closing and latching speed adjustable

Comes complete with arm

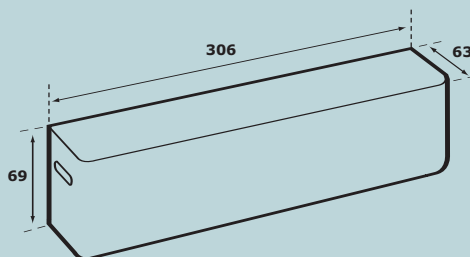
Die-cast aluminium body

**Finish**

Silver

**DC247**

For heavy  
weight  
interior  
or exterior  
doors



**Features**

BS EN1154 closing force  
(adjustable): Class 6-7

Closing and latching speed  
adjustable

Operating temperature:  
+50°C to -35°C

Back check (standard)

For use with standard arm DC197  
only (not included)

Easy adjustment of arm height  
(14mm max)

Cast aluminium body

**Finish**

Plastic covers: Silver (Brass,  
white, brown and black to special  
order)

## Arms and mounting plates

### Arms

7190, 7191, 7199  
7281, 7282, 7611  
DA156, DA157,  
DA158, DC194

### 7190/DC197/DA158

Standard arm

- Optimum closing strength
- Allows door to open 180°



### 7199

Special arm

As 7190 but with lockable ball joint to protect against abuse

### 7191

Hold-open arm

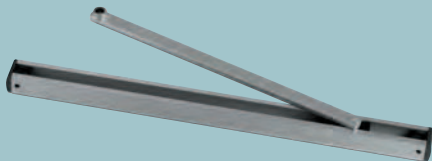
- Angle adjustable to 150°



### DC194/DA156/DA157

Sliding arm

- Protects against abuse



### 7281/7282

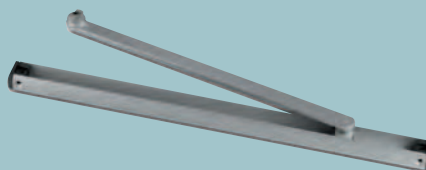
Standard arm

- 7281 - 150mm max frame depth
- 7282 - 150 to 250mm frame depth

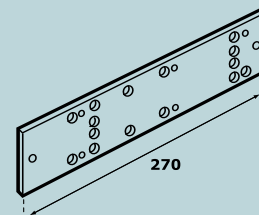


### 7611

Sliding arm

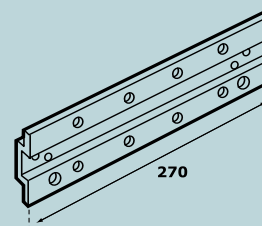


### Mounting plates



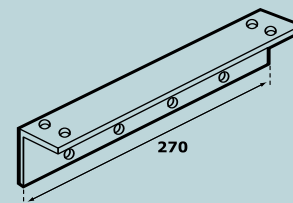
### 101

Flat mounting plate



### 102

For metal profile doors



### 103

Angle mounting plate

### ARMS COMPATIBILITY

	Product No									
	7190	7191	7199	DA156	DA157	DA158	DC194	DC197	7281 7282	7611
<b>Door operators</b>										
DA300/L							●			
DA300/S	●									
DA361/L						●				
DA361/S				●	●					
DA400/L										●
DA400/S									●	
<b>Door closers</b>										
7233	●	●	●				●			
7234	●	●	●				●			
7235	●	●	●				●			
DC241	●	●	●				●			
DC247								●		
DC240(BC)	●	●	●				●			
DC250							●			



**Abloy Security Limited**  
**1/3 Hatters Lane**  
**Croxley Business Park**  
**Watford**  
**Hertfordshire**  
**WD18 8QY**

 **01923 255066**

 **01923 230281**

 **sales@abloysecurity.co.uk**  
**www.abloysecurity.co.uk**



Master Locksmiths  
Association



Full member

Due to a continuous programme of development, Abloy Security Limited reserve the right to make alterations without notice. For technical reasons connected with colour reproduction the colours shown may vary slightly from those of the product. All dimensions provided within this catalogue are approximate and for guidance only. E. & O. E. For terms and conditions of sale, please refer to current price list.

Abloy Security Limited markets high quality products and accessories for security applications. Our customer base provides solutions to a broad spectrum of public and private organisations throughout the UK and Ireland.

The ASSA ABLOY Group is the world's leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience.