Drive technology for pedestrian entrances and industrial applications | security | centralised monitoring | maintenance | special solutions

DENNISON DOORS Limited

DFA 127

The silent, energy-saving automatic swing door operator

02392 266166
info@dennisondoors.co.uk

One operator for all types of applications

The universal, electro-mechanical DFA 127 swing door operator system

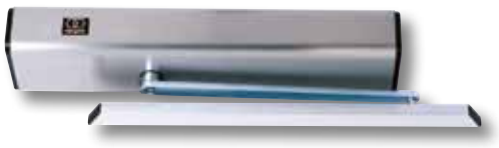
Universal swing door operator DFA 127

„Push and go" function

DFA 127 swing door operator with sliding arm

Safety sensors available on both sides

The universal swing door system – same design – same accessories – same software



- Worldwide approvals; complies with DIN 18650
- Approved as an automatic door control system as a fire protection barrier
- Can be used with fire protection profile systems such as, for example, Jansen, Forster, Heroal, Schüco
- Geronto technology – to enable barrier-free access
- Energy-saving thanks to its low current "closed" position
- Integrated sequential control available for two-leaf fire protection doors

Remote control unit with illuminated LCD display

Select the operator for your swing door application

The extremely low noise DFA 127 is the first swing door operator that can be used as the basis for many different applications for swing doors. Thanks to its modular design and its new technology, with spring tensions that can be adjusted on-site, the DFA 127 can be used universally over the complete range of EN4 – EN6 door controller sizes.

- Low noise
- Energy-saving
- Adjustable spring tension

The operator system with 4 orientations

→ One version → modular construction → all types of installation → well-proven technology

FULL POWER

The "STRONG"
that can be used anywhere

Key benefits:

- Universal, powerful, programmable

Recommended use:

- For doors where a more powerful opening operation is required
- Optimised for the operation of large and heavy doors
- Ideal when a high dynamic range is required

Compact and powerful

LOW ENERGY

The "GENTLE"
with reduced motion power

Key benefits:

- Depending on the installation location, requires little to no additional sensors
- Even elderly people are not afraid of using the door system
- The convenient, slow-moving operator inspires trust and confidence

Recommended use:

- For environments used by people with limited and slow reaction capabilities

Reliable, quiet operation can be customised

INVERS

The "SAFE"
that also opens without power

Key benefits:

- No emergency power unit necessary
- Opens using spring tension
- The end stop can be integrated into the drive unit (no parts to stumble over on the floor)

Recommended use:

- For the ventilation opening and smoke clearance of rooms in case of fire
- For guiding people in the case of a power failure

Opens in case of a power failure

FIRE

The "DEPENDABLE"
that closes reliable in case of fire

Key benefits:

- Combines convenience and safety
- Can be combined with a range of fire protection profile systems

Recommended use:

- Anywhere where automatic fire and smoke protection barrier doors are required

Reliable closing in case of fire

The following features apply to all operator types:

- Identical design of all model variants
- All models share the same technology
- Well-proven peripherals are developed and produced in-house
- Same operating system for all models
- Strikingly silent running capability
- Intelligent system
- Maintenance-free and reliable
- Available in a wide range of finishes

FULL POWER DFA 127 FP

The "Strong", universal all-rounder – the swing door operator for standard applications

The universally installable, electro-mechanical operator is the highly efficient power pack behind a family of swing door drives. The well-proven automatic system is characterised by its advanced technology, its compact design and its especially quiet running. This powerful automatic system also owes its versatile range of applications to the fact that its spring tension can be adjusted on-site, which makes its use possible in door operator sizes from EN4 – EN6. The drive thereby becomes even more flexible with regard to customised settings. The sophisticated technology under the direction of the record controller permits complex functions with optimum force over the complete door swing movement. With its small size and modular structure, all types of installation with standard or slide arm can be mounted. The intelligent sensor system makes possible an even more convenient and more reliable operation of the door.

Specially suitable for:

- The physically challenged in flats, hospitals and old people's homes
- Pedestrian traffic in public buildings
- Administrative and office buildings
- Restaurants and hotels

The door drive can be installed as:

- 1-leaf standard door
- 2-leaf standard door (continuous operator casing)
- Deployment of an electrical sequential control
- Automatic door control system for fire and smoke protection barriers
- Use in escape and rescue routes
- Energy-saving mode – adjusted opening one or both door leaves (nurse opening)
- Interlock function – for doors installed one after the other
- Push-pull opening – aligned to the direction of user

LOW ENERGY DFA 127LE

The "GENTLE" swing door drive – the solution for a careful automatic door operation

The LOW ENERGY DFA 127LE is the ideal drive for environments where people with slow and limited reaction capabilities are moving about, for example, in hospitals and retirement homes. The LOW ENERGY is the ideal basis for safe opening assistance. The movement power is limited to 1.6 joules so that persons in the swing area are protected and not endangered. The operator with the LOW ENERGY version is extremely quiet, and is therefore highly suitable for use in the immediate vicinity of living areas. Menu guided, intuitive, convenient – the operation of the drive is simple and is carried out with the help of a user-friendly display with easy-to-understand text. As with the FULL POWER version, this model allows all types of installation thanks to reliable, well-proven technology. The type of travel and the spring tension can be adjusted on-site according to customer requirements.

Specially suited to:

- Retirement and nursing homes
- Hospitals, clinics and residences for senior citizens
- The LOW ENERGY DFA 127LE is also suitable for all the applications described for FULL POWER (restriction in the fire protection area)

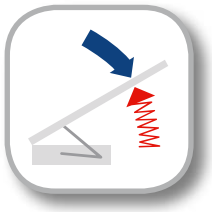
Special advantages:

- Thanks to its gentle motion sequence, it generates a high level of confidence in people with slow reaction capabilities
- No additional sensor technology necessary
- Maintains the peaceful atmosphere in living areas thanks to its virtually silent operation
- Simple, intuitive operation with remote control featuring a display with graphics and text

DFA 127

INVERS DFA 127 IN

The "SAFE" that opens with spring tension – in case of power failure



The INVERS DFA 127 IN stands out through the possibility of safely opening the door, even when no electrical power is present. During the motorised closing, the mechanical energy required to open the door is stored in the spring system. The INVERS thereby only demonstrates its true strength when danger threatens. In the case in which a building is about to be filled with smoke and there is a power failure at the same time, the INVERS will still open the doors safely without needing mains power supply. As a result, the door can be used as a ventilation opening within a building for the targeted supply of fresh air or for the extraction of smoke and heat.

This represents an enhancement of confidence and security with regard to the saving of human lives.

In ensuring the guidance of persons through the building, the INVERS also shows the way without needing any mains electricity. The security sensors also ensure reliable safety for the INVERS.

Particularly suited to:

- Opening escape routes
- Enhancing the safety of pedestrians
- Extracting smoke and heat
- Use in major buildings, such as theatres, congress centres, clinics, airports etc.

Special advantages:

- The opening end stop is integrated into the door operator system (no hindrance, no objects to stumble over in the path of pedestrian users)
- No emergency power supply needed for opening
- rmotor brake – as the system can hold the door closed by itself, no additional electrical opener is needed for escape routes
- The same design as the other DFA systems

The automatic door operator that ensures safety

FIRE DFA 127^{FS}

→ The "DEPENDABLE" that closes reliably in case of fire

Reliable and safe closing in case of fire – the FIRE DFA 127^{FS} version is approved for use on smoke and fire protection doors. In case of fire, the closing of the swing door is triggered by a smoke and heat alarm. For this, the additional controller receives a command to close the passage¬way immediately. The operator closes the doors with spring tension. The use of external components for the door system for example, smoke and heat alarms or electrical door openers, requires evidence of a building inspectorate approval. With the integrated, mechanical sequential controller, two-leaf doors can also be used as fire protection barrier doors. Country-specific directives and regulations must be followed.

Specially suitable for:

→ Anywhere where automatic fire and smoke protection barrier doors are required

Approvals for specific countries:

→ Germany: DIBt
German Institute for Building Technology, No. Z-6.5-1944

→ France: CNPP
Centre National de Prévention et de Protection

→ Austria: IBS
Institute for Fire Protection Technology, ÖNORM – B 3850

Particular benefits:

→ Convenience and safety combined

→ Compact design – thanks to integrated fire protection technology components

→ All types of arms can be used

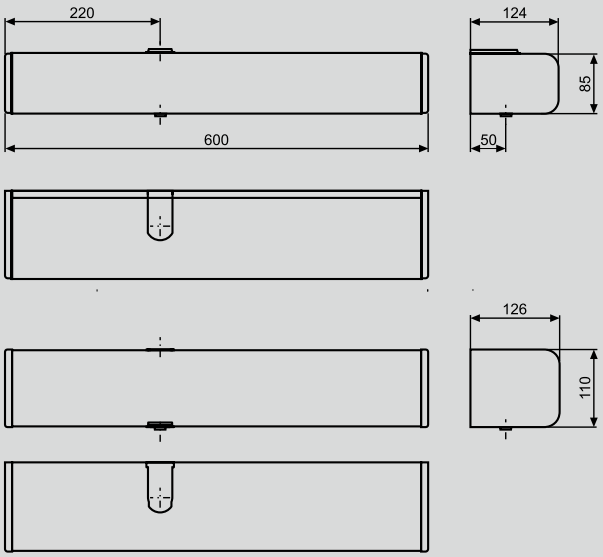
→ The door system can be connected to existing fire control systems

→ Own additional controller allowing the connection of smoke and fire alarms

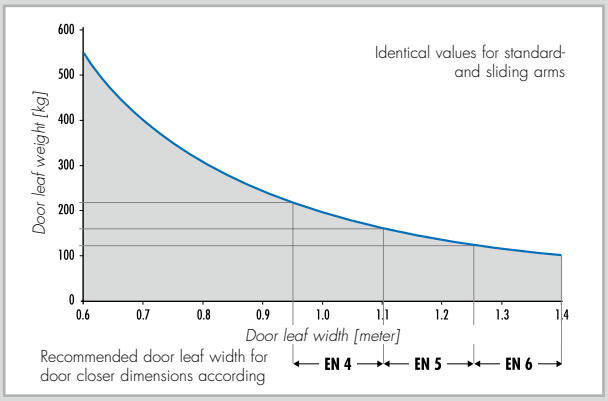
DFA 127

DFA 127, the universal platform for
all automatic swing door applications

Technical specifications



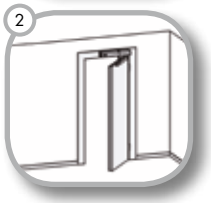
Dimensions of the operator (H x W x L)	85 x 124 x 600 mm (110 x 126 x 600 mm)
Door closer size	EN4 – EN6 for standard arm and slide arm
Opening time / closing time	3 – 20 s / 5 – 20 s
Opening angle	70 – 115° (INVERS up to 95°)
Electrical power supply	230 VAC, 50 / 60 Hz, rated power 67 W
Consumption in standby mode	13 W
Noise level in operation	–18 dB (i.e. whisper-quiet)
Operating modes with internal BDI operating switch	
	Automatic operation
	Continuously open
	Manual operation
Operating modes with BDE-D control panel with display (optional) In addition to the standard modes	
	Locked
	One-way traffic
	Operation lock
Functions	
	Automatic reverse
	Touch control (push and go)
	Emergency exit, interlock control or 2-leaf doors
	Customer-specific door parameters
Options	
	Electro-magnetic brake
	Integrated mechanical sequential control
	Two doors interlock function
	Automatic door control system for fire and smoke protection doors
	Can be networked with the ADM Door Management System



Installation variants

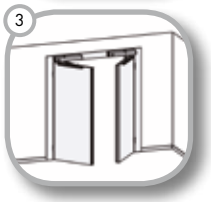
Lintel installation

(1-leaf door)
Standard arm DIN left or right pushing



Lintel installation

(1-leaf door)
Slide arm DIN left or right pulling

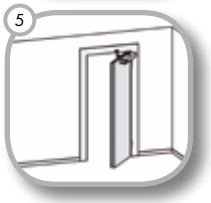


Lintel installation

(2-leaf door, master / slave operation)
Two electrically coupled drives with standard arm pushing or slide arm pulling

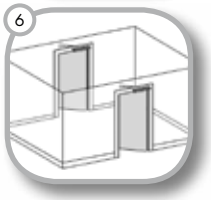
Lintel installation

(2-leaf door with two-way traffic)
Alternating operation of two drives that are independent of each other



Door leaf installation

(1-leaf door)
Arm and possible combinations such as lintel installations



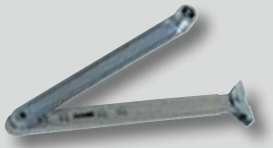
Interlock operation

(2 x 1-leaf doors standing one after the other)
Two electrically interconnected drives in all arm variants

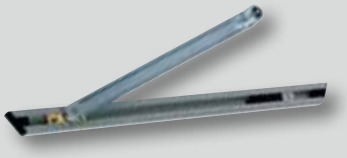
Accessories and options

Types of arms

- The power transmission from the drive to the door leaf takes place by means of an arm. Depending on the installation situation, the most favourable solution can be selected from two different arm types (standard or slide arm). Standard arms in different lengths are available for the compensation of the lintel depth.
- Through the use of optional axis extensions, so-called lever bushes, many different lintel depths can be compensated.

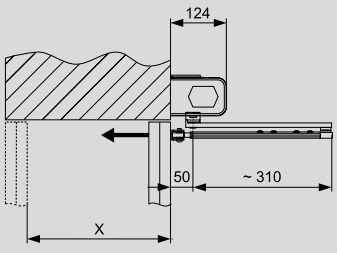


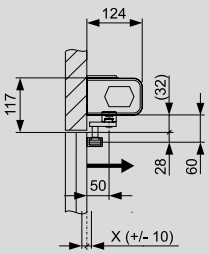
Standard arms, pushing



Sliding arms, pulling or pushing

Lintel depths

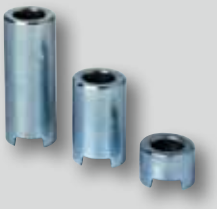




Type	Standard arm SG1 – SG3	Slide arm GG
Lintel depths	X = 0 – 330 mm	X = 0 + / –10 mm

Axis extensions

- For standard or slide arm



Type	Standard arm pushing	Slide arm pulling
20 – 80	42.5 – 102.5 mm	32.0 – 92.0 mm

Sensor systems

- **RAD 290 radar motion detector**
- Infrared presence detector
- Security sensors for the monitoring of the door swivel area

Product range

FULL POWER LOW ENERGY INVERS FIRE

(conforms to DIN 18650)

Full POWER + LOW ENERGY + FIRE

- Currentless drive units function like a mechanical door closer

Invers

- **Currentless drive unit opens using spring tension**

Arm systems and accessories

- Standard arm: pushing, different lengths
- Slide arm pulling and pushing with integrated stop
- Axis extensions

Operator casing

- Standard (stainless steel 85 mm) and in aluminium 85 mm and 108 mm
- Extended as required
- Extended for double swing doors (master / slave operators)

Treated surfaces

- Satin stainless steel or coloured aluminium or anodised

Spring tension

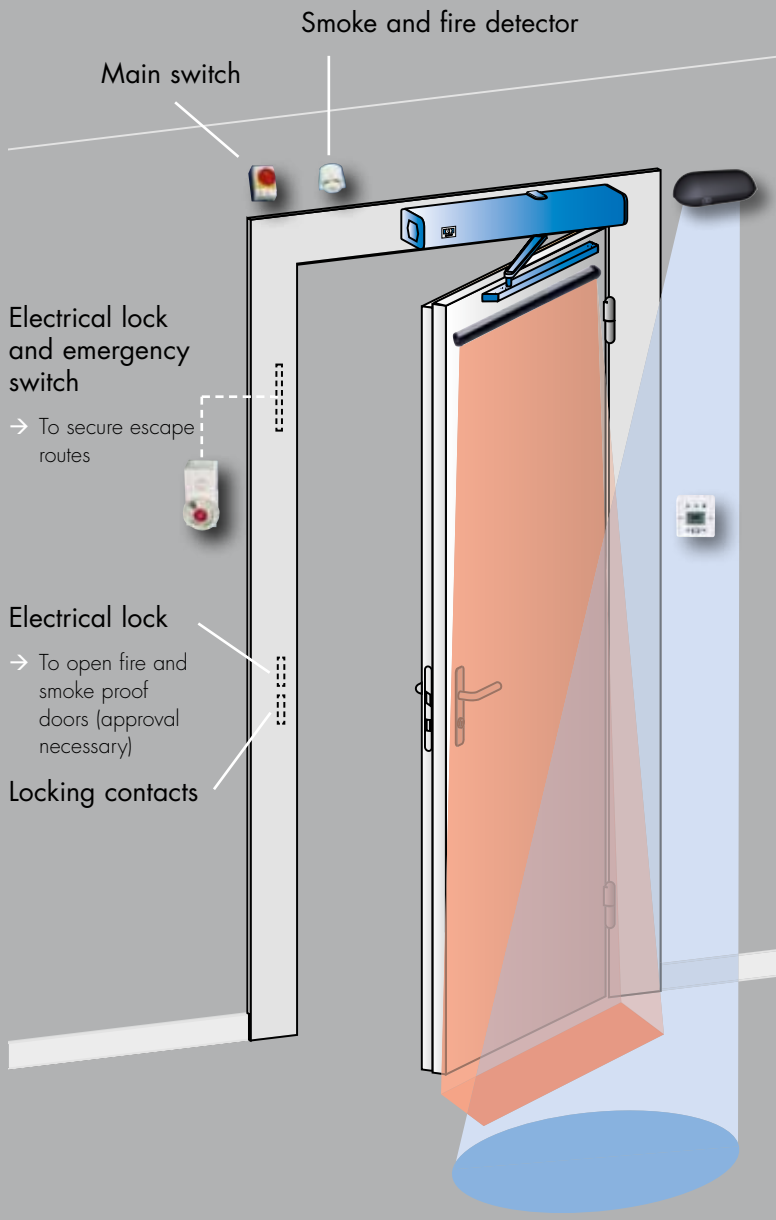
- Adjustable spring pretensioning (EN4 – EN6)

Installation versions

- Lintel installation on hinge side or opposite hinge side
- Also as automatic door system for fire and smoke-proof applications
- Master / slave operation applied as fire proof doors require also a mechanical sequential control

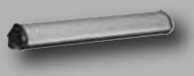
Trigger devices

- Radar RAD 290
- Active and passive infrared sensors
- Hygienic sensor
- Push button
- Presence detector
- Pull switch
- Remote controller
- Key operated contact



Safety + security sensors (both sides)

- Sensor bar to monitor door swing area: flexible cable routing for existing doors



Additional options

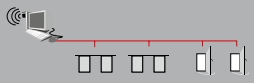
- Interlock control (master / master)
- Mechanical integrated sequential control, for use with fire protection doors (only possible with housings 108 mm high)

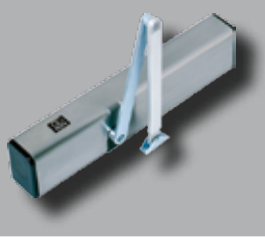
Control panel

- BDI (toggle switch standard)
- Options:
  - BDE-D with display (key switch)
  - Manuel switch
  - BDE-M (mechanical key switch instead of BDI)

Centralised door management

- record ADM^{pro}
- record ADM^{open}
- LON interface
- Web camera





DFA 127

what we do...

automatic doors

- sliding doors
- revolving doors
- swing doors
- air curtains
- 'operator only' systems

shutters

- roller shutters
- sliding shutters
- sectional doors
- concertina doors
- fire rated shutters

steel doors

- security doors
- vandal resistant doors
- fire exit doors
- sub-station doors
- certified doors

security grilles

- bar grilles
- window grilles
- window bars
- commercial property
- domestic property

barriers and gates

- swing gates
- sliding gates
- barriers
- automatic bollards
- parking sytems

access control

- code locks
- card readers
- door intercom
- cards and tags
- system integration

pvc doors

- rapid roll doors
- high-speed doors
- pvc strip curtains
- grp doors
- polycarbonate doors

security cage

- modular solutions
- steel mesh storage
- multiple locking options
- perimeter protection
- steel panel options

services

- planned maintenance
- service contracts
- 24*7*365 call-out
- rapid response times
- BS7036 compliant

Dennison Doors Limited Unit 7 The Parkwood Centre Aston Road Waterlooville Hampshire PO7 7HT
Email: info@dennisondoors.co.uk Tel: 02392 266166 Fax: 02392 266199