



record DFA 127

> The silent, energy-saving automatic swing door operator



record

your global partner for entrance solutions





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



One operator for all types of connections



→ Low noise

→ Universal

→ Adjustable spring tension (EN4-EN6)

1

FULL POWER



The **STRONG** all-rounder that can be used anywhere

2

LOW ENERGY



The **GENTLE** one with reduced movement power

3

INVERS



The **SAFE** one for effective building security

4

FIRE



The **DEPENDABLE** one in case of fire



Select the operator for your revolving door-application ...

The extremely low noise DFA 127 is the first swing door operator from record that can be used as the basis for many different applications for swing door controllers. 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 within the EN4 - EN6 door controller sizes.

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

- Worldwide approvals, complies with DIN 18650
- Approved as an automatic door control system for a fire protection barrier
- Can be used with fire protection profile systems such as, for example, Jansen, Forster, Heral, Schüco
- Geronto technology - to enable barrier-free access for everybody
- Energy-saving thanks to its low current "close" position
- With integrated sequential control

→ New operating unit with practical text display



The operator system with 4 orientations

→ One version → a modular structure → all types of installation → in a well-proven technology

FULL POWER



The "STRONG"

that can be used anywhere

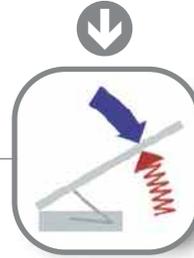
LOW ENERGY



The "GENTLE"

with reduced motion power

INVERS



The "SAFE"

that also opens without power

FIRE



The "DEPENDABLE"

that closes in case of fire

→ The following applies for all operator types:

- The same design
- The same technical concept
- The same peripheral units
- One operating system
- Silky smooth running capability
- Intelligent system
- Easy to maintain

→ Key benefits:

- Universal, powerful, programmable
- Depending on the installation location, requires little to no additional sensors
- Even older people have no fear of using the door system
- The slow-moving operator creates confidence and convenience
- No emergency power unit necessary
- Runs on spring tension
- The end stop can be integrated into the drive (no stumbling block on the floor)
- Convenience and safety combined
- Combinable with divers fire protection profile system

→ Recommended use:

- For doors where a more powerful opening operation is required
- Above all, wherever large and heavy doors have to be operated
- Ideal where a high dynamic range is required
- For environments where there are people with limited and slow response capabilities
- For the ventilation opening and smoke clearance of rooms in case of fire
- And for guiding people in the case of a power loss
- Anywhere where automatic fire and smoke protection barrier doors are required



→ Compact and powerful



→ Reliable, quiet operation can be customised



→ Opens in case of a power loss, ideal for guiding persons



→ Reliable closing in case of fire

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 the family of swing door drives from **record**. 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 **record** sensor system makes possible an even more convenient and more reliable operation of the door.

FULL POWER DFA^{FP} - Wide range of possibilities for use

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 travel



→ Compact → efficient → quiet

LOW ENERGY DFA 127^{LE}

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

The LOW ENERGY DFA 127^{LE} 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 Joule so that persons in the swing area will not be endangered, and will be protected. The operator with the LOW ENERGY version is extremely quiet in operation and is therefore even more suitable for use in the immediate vicinity of the living area. **Menu guided – intuitive – convenient - the operation** of the drive is simple and is carried out with the help of a display with user-friendly text guidance. As with the FULL POWER version, all types of installation can be realised thanks to well-proven and mature technology. The type of travel and the spring tension can be **adjusted on-site according to customer requirements**. The intelligent record sensor technology thereby makes additional safety possible in the use of the automatic door.

LOW ENERGY DFA 127^{LE}

Specially suited for :

- Retirement and nursing homes.
- Hospitals, clinics and senior citizen residences.
- The LOW ENERGY DFA 127^{LE} 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, depending on the installation location.
- Maintains the peaceful atmosphere in living areas thanks to its virtually silent operation.
- Simple operation with graphics and text display.
- Adaptation of the surface colour to the door design.



INVERS DFA 127^{IN}



The swing door operator that opens with spring tension

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 an emergency 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. **A gain in 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. record security sensors also ensure reliable safety for the INVERS.

INVERS DFA 127^{IN} particularly suited for:

- The opening of escape routes, for the safety of pedestrian guidance, for the extraction of smoke and heat.
- Applications 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 stumbling blocks in the transport path of the guidance system).
- No emergency power supply needed for opening
- record motor brake - due to the system holding the door closed by itself, no additional electrical opener is needed for escape routes.
- The same design as the other operators.



→ The automatic door operator that "ensures safety"

FIRE DFA 127^{FS}



Building Inspectorate Approval
German Institute for Building
Technology (DIBt) No. Z-6.5-1944

The swing door operator 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 will be triggered by an smoke and heat alarm. The additional controller of the **record** operator thereby receives a command to immediately close the passageway. 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, will require evidence of a building inspectorate approval.

With the integrated, mechanical sequential controller, two-leaf doors can also be used as fire protection barrier doors. The high quality and flawless functioning of fire protection systems is safeguarded by periodic external monitoring. Country-specific directives and regulations must be followed.

FIRE DFA 127^{FS} specially suitable for:

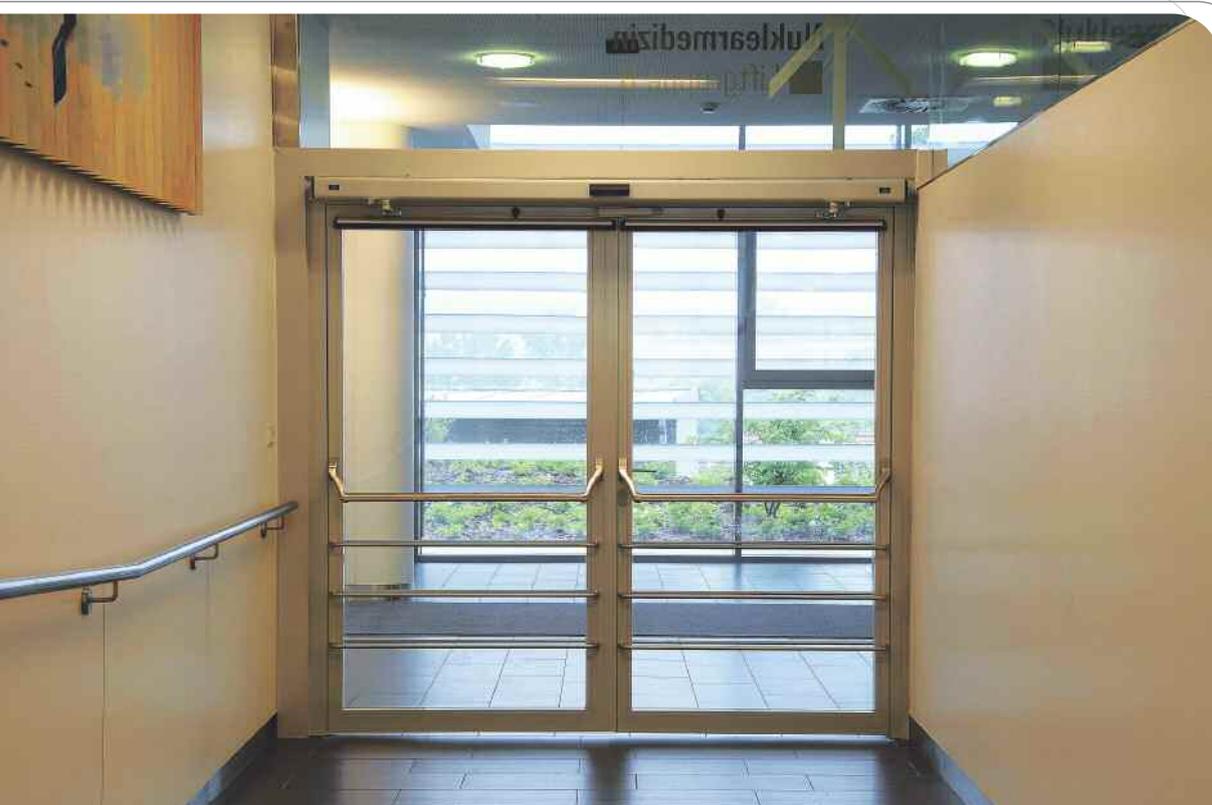
- Anywhere where automatic fire and smoke protection barrier doors are required.

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

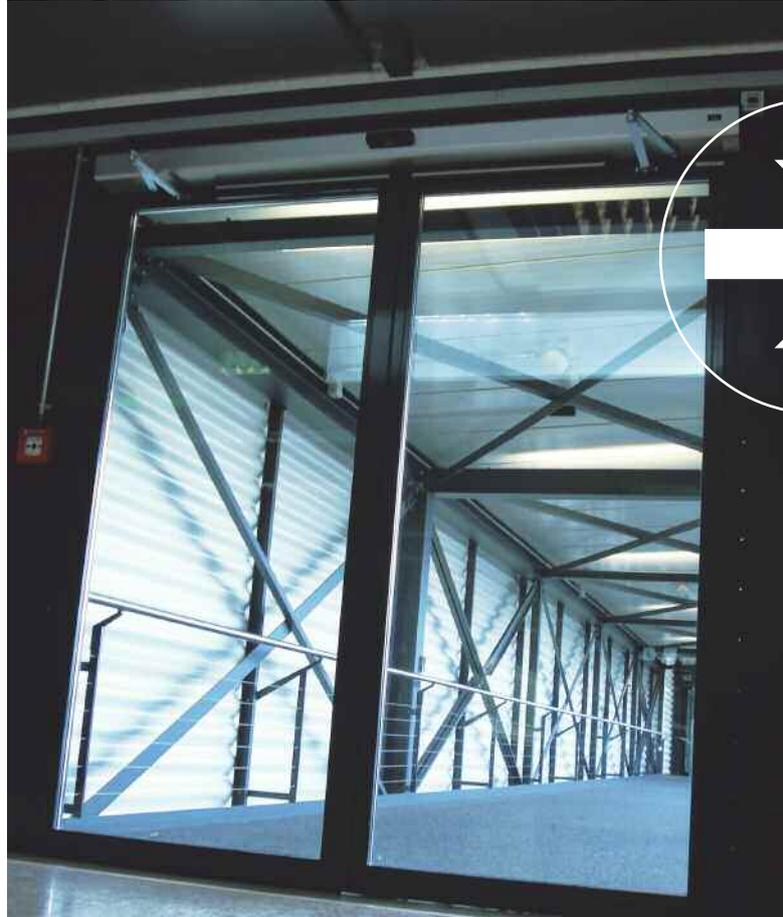
Particular benefits:

- 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 an existing fire control system.
- Own additional controller for the connection of smoke and fire alarms.
- Can be used together with various fire protection profile systems.

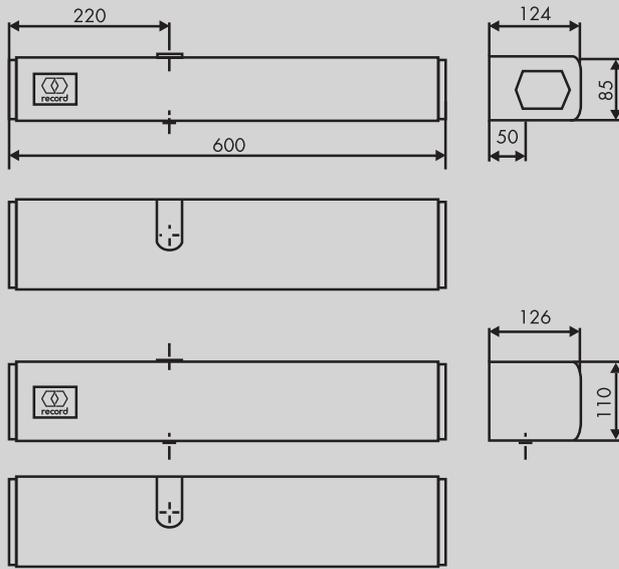


DFA 127


→ In case of fire – safe door closing



→ The technical characteristics



Dimensions of the operator (HxWxL)	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 (comparable with whispering)

→ Operating modes with internal BDI operating switch

Automatic operation	
Continuously open	
Manual operation	

→ Operating modes with BDE-D control panel with display (optional)

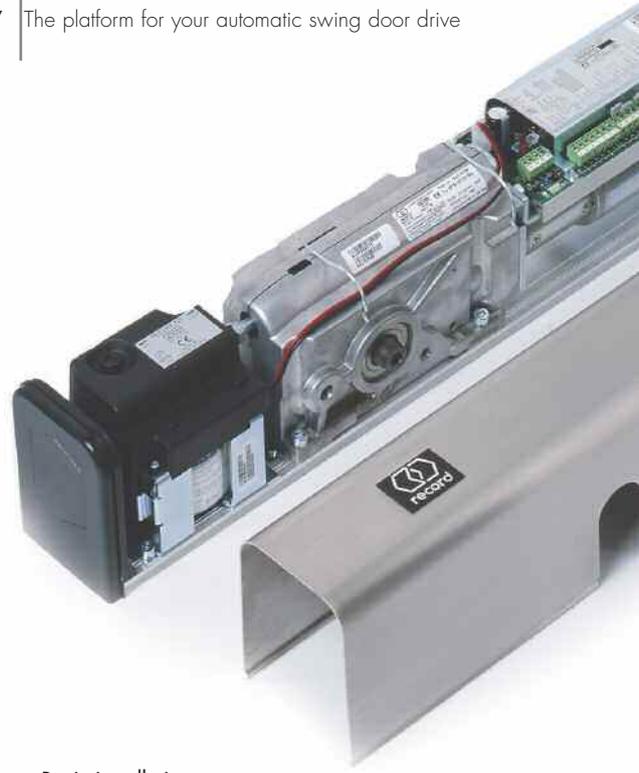
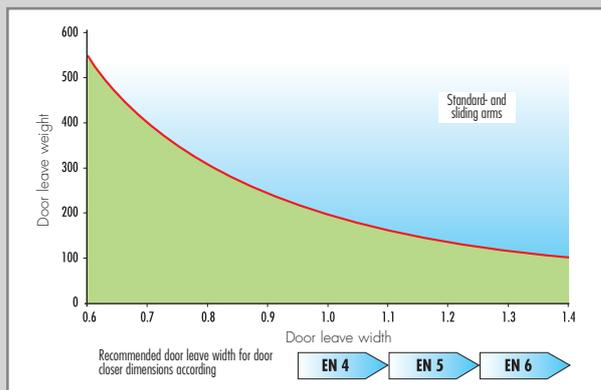
In addition to the standard modes	Locked
	One-way traffic
	Operation lock

→ Functions

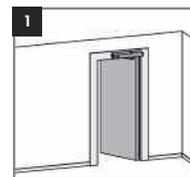
Automatic reverse	
Touch control (Push and go)	
Emergency exit, interlock control or 2-leaf doors	
Customer-specific door parameters	

→ Options

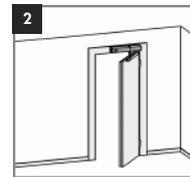
Electro-magnetic brake	
Integrated mechanical sequential control	
Two doors interlock function	
Automatic door control system for fire and smoke protection doors	
Can be networked with the record ADM Door Management System	



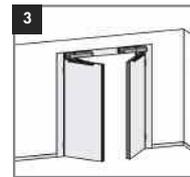
Basic installations with standard or slide arm



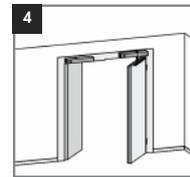
Lintel installation
(1-leaf door)
Standard arm DIN left or right pushing



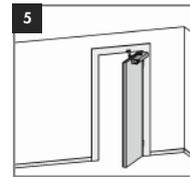
Lintel installation
(1-leaf door)
Slide arm DIN left or right pulling



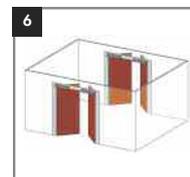
Lintel installation
(2-leaf door, master/slave operation)
Two electrically coupled drives with standard arm pushing or slide arm pulling



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



→ Accessories and options

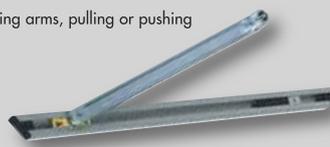
→ Types of arms

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

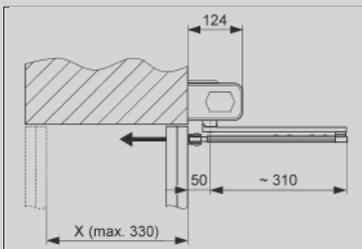


Sliding arms, pulling or pushing

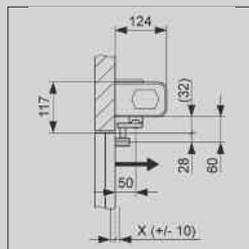


→ Lintel depths

(standard arms only)



Lintel depths with standard arm



Lintel depths with slide arm

SG1-SG3

X = 0 - 330 mm

GG

X = 0 +/- 10 mm

→ Axis extensions

for standard or slide arm



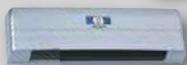
Type
20 to 80

Standard arm pushing
42,5 - 102,5 mm

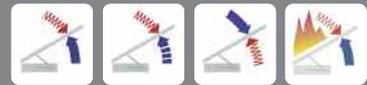
Slide arm pulling
32 - 92 mm

→ Sensor systems

- record RAD 290 radar motion detector
- Infra-red presence detector
- Security sensors for the monitoring of the door swivel area
- Infra-red remote control for RAD 290 radar system



→ Product range



FULL
POWER

LOW
ENERGY

INVERS

FIRE

(conforms to DIN 18650)

→ Arm systems and accessories

Standard arm: pushing, different length
Slide arm pulling and pushing with integrated stop
Lever adapters

→ Operator casing

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

→ Treated surfaces

Satin stainless steel or coloured aluminium (RAL) or anodised



→ Spring tension

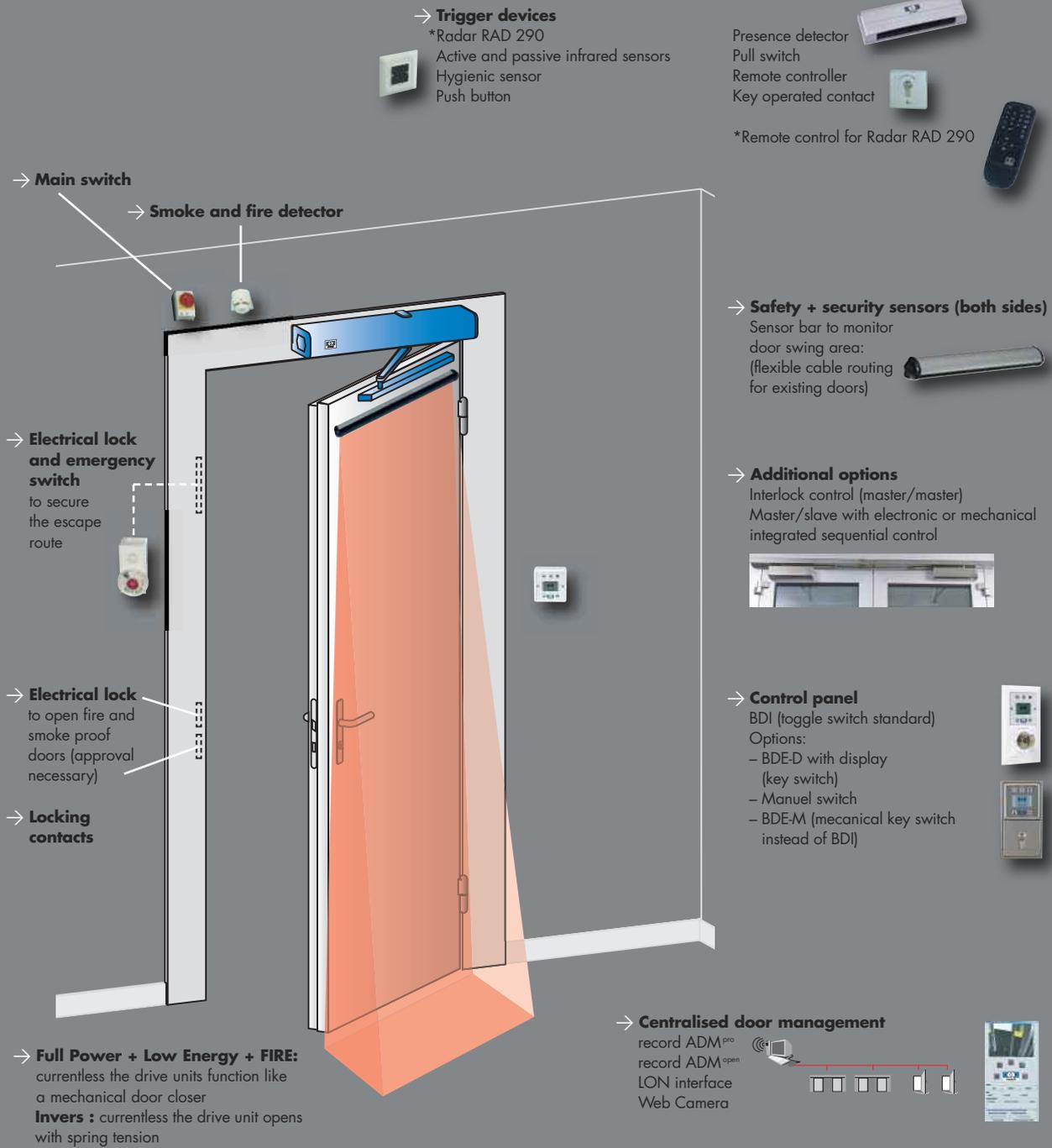
Adjustable spring pretensioning force (EN4-EN6)

→ Installation versions

Lintel installation on hinge side or opposite hinge side
Also as automatic door system for fire and smoke-proof applications (Z - 6.5 -1944)

M/S applied as fire proof doors require also a mechanical sequential control





DFA 127



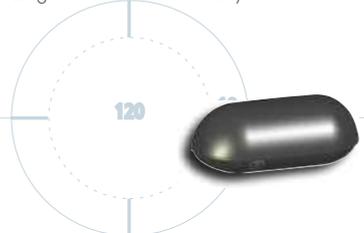


> record's proximity enables our service network to respond quickly...

record's technical staff undergo regular training, and guarantee dependable, high quality maintenance. They also ensure the value of your installation is maintained over the long-term. Remote diagnosis and maintenance, or on-site troubleshooting: **record's service personnel are always close at hand.**



Individual advice | Installation and commissioning | Competent maintenance | Troubleshooting hotline | Long term ensured functionality



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