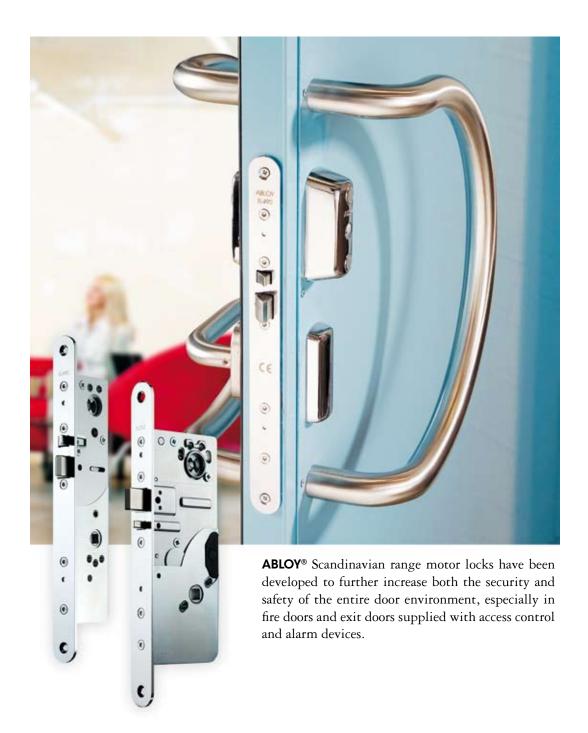


ABLOY® EL490, PE490, EL590 AND PE590 SCANDINAVIAN RANGE MOTOR LOCKS

Flexible multifunctional locking



APPLICATION

The electromechanical **ABLOY**[®] locks offer complete high security solution whenever you need pedestrian traffic control in addition to mechanical locking safety, for example in fire doors and exit doors. By using the latest technology, the new generation of **ABLOY**[®] motor locks are developed to further increase both security and safety of the door environment.

More possibilities - less product versions

ABLOY[®] motor locks EL490/PE490 for narrow profile doors and EL590/PE590 for wooden and metal doors are developed to aid product selection for demanding and functionally challenging door environment. The new motor locks are especially suitable for one- and two-way access controlled fire doors and emergency exit doors.

One-way access controlled doors

Typical applications are the exterior and fire doors of

- business premises
- hospitals

Doors with both access control and fixed time control

Typical applications are the exterior doors of

- educational premises
- public buildings
- sport halls
- apartment buildings

Two-way access controlled doors

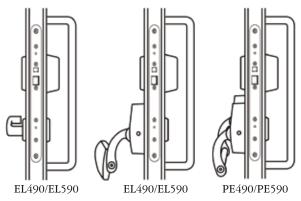
- exterior and fire doors of business premises
- access controlled doors, which are used also as emergency exits
- hospital and residential building doors, when special control is needed (e.g. dementia wards)

Entrance doors for customers with both access control and fixed time control

• exterior doors of business premises, where extra security is required to prevent vandalism (e.g. bank entrance doors)

FUNCTION

One-way access controlled doors



The lock is electrically controlled by access control system.

Mechanical opening by cylinder and by inside handle / push pad (EN 179/EL490, EL590) or panic bar (EN 1125/PE490, PE590) is always possible.

The lock is electrically controlled by fixed time control or access control system. When time controlled, the door can be opened by pulls and when access controlled, the door can be opened by

Mechanical opening by cylinder and inside handle is always

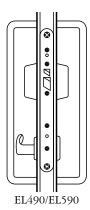
Please note the following lock case settings:

a reader outside and with inside handle.

• Bolt throw 14 mm in fire rated doors (EL590)

Doors with both access control and fixed time control

Two-way access controlled doors



The lock is electrically controlled by access control system, i.e. the lock can be opened by readers from both sides of the door. In case of emergency the door can be opened with the inside handle, which is activated by e.g. central fire alarm. In case of power failure, mechanical opening with the inside handle is always possible.

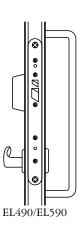
Please note the following lock case settings:

- The bolt throw 14 mm in fire rated doors (EL590)
- In emergency exit doors the handle operation must be changed to electrically controlled
- Accessory

possible.

Exit button

Entrance doors for customers with both access control and fixed time control



The lock is electrically controlled by access control system. Mechanical opening by inside cylinder is always possible. In case of emergency the inside handle is controlled by e.g. central fire alarm system or with exit button. In case of power failure, mechanical opening with the inside handle is always possible.

Please note the following lock case settings:

• In emergency exit doors the handle function must be changed to electrically controlled

Accessory

• Exit button

TECHNICAL INFORMATION

FEATURES

ABLOY® EL490, PE490, EL590 and PE590 motor locks offer several functional options in just one lock case. Because all the options are covered by a small number of versions, the same lock can be used in several differently functioning door environments. The following mechanical and electromechanical functions can be set at the installation phase:

- handing of the bolt
- handing of the trigger bolt (EL590, PE590)
- bolt throw: 14 or 20 mm (EL590)
- handle function: mechanical or electrically controlled (EL490, EL590)
- opening delay 1-20 sec.

MONITORING

The lock includes the following monitoring outputs:

- bolt deadlocked
- handle down
- cylinder monitoring (available as an accessory)
- The monitoring output for door automatics:

Normal (seal force 50N)

• bolt in The monitoring outputs are not available during power failure.

TECHNICAL DETAILS

Operating voltage: Current:

Max

Idle

Operating temperature:

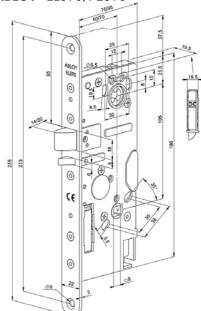
12 (10%) - 24 (+15%) VDC STAB

1700 mA (12 VDC) 700 mA (24 VDC) 600 mA (12 VDC) 250 mA (24 VDC) 50 mA (12 VDC) 25 mA (24 VDC) Max. 30V, 100 mA -20...+60°C 14 mm/20 mm (EL590) 14 mm (EL490, PE490, PE590) 50 mm (EL590, PE590) 29 mm/35 mm (EL490, PE490) 22 mm (EL590, PE590) 25 mm (EL490, PE490) 8 mm 2 - 5,5 mm (the distance between forend and striker plate) Chrome plated forend Switch 950885 (EL590, PE590) Switch 950886 (EL490, PE490)

DIMENSIONS

ABLOY® EL490, PE490

ABLOY® EL590, PE590



Door clearance:

Relays:

Backset:

Forend:

Spindle:

Bolt throw:

Finish: Cylinder monitoring:

DELIVERY

Standard delivery includes:

- Lock case, handing 2,4
 - Fixing screws etc.
 - Lock case manual

CYLINDERS AND ACCESSORIES (Please order separately)

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		SCANDINAVIAN CYLINDERS	EXIT DEVICES	STRIKE PLATES	CABLES	LEAD COVERS
		ABLOY® PROTEC				
EL590	Single	CY021N (inside) CY037N (outside)	Handle (EN 179): e.g. ABLOY [®] PRESTO 3-20/030*) Push pad (EN 179): ABLOY [®] PPE002	LP712 LP722 LP732	EA217 (6m) EA227(10m) EA228 (0,5m) 18x0,14mm ²	EA280 EA281
	Double	CY002N				
PE590	Single	CY037N	Panic Bar (EN 1125): ABLOY® PBE002			
EL490	Single	CY068N (inside) CY047N (outside)	Handle (EN 179): e.g. ABLOY ® PRESTO 3-20/0630*) Push pad (EN 179): ABLOY® PPE003	EA307 EA308 4613 4614		
	Double	CY067N				
	Single Thumbturn	CY047N (outside) CH014 (inside)				
PE490	Single	CY047N	Panic Bar (EN 1125): ABLOY® PBE003			

*) For further information, please contact Abloy Oy Tampere factory

MORE FUNCTIONS LESS ACCESSORIES

The new **ABLOY**[®] EL490, PE490, EL590 and PE590 motor locks offer most comprehensive features which reduce the need of accessories in both access controlled emergency exits and fire doors. For example there is no longer need for emergency power supply, exit buttons, thumbturns or emergency exit domes. In addition to that more status information is available.

One-way access controlled doors

- no need for emergency power supply in fire doors
- no need for separate push buttons or emergency exit domes
- the door can always be opened with the inside handle, push pad or panic bar

Doors with both access control and fixed time control

- no need for separate push buttons or emergency exit domes
- the door can always be opened with the inside handle

Two-way access controlled doors

- no need for emergency exit domes
- no need for magnetic locks in especially demanding applications
- in emergency situations the door can be opened with the inside handle, which is activated by e.g. central fire alarm, and always in case of power failure.

Entrance doors for customers with both access control and fixed time control

- no need for emergency exit domes
- in emergency situations the door can be opened with the inside handle

STANDARDS

ABLOY® Motor locks have been tested according to the following standards:
EN 1634-1 (for fire resistance)
prEN 14846 (for electromechanically operated locks)
EN 179 (for emergency exit doors)
EN 1125 (for panic exit doors)

The durability of **ABLOY**® EL490, PE490, EL590 and PE590 motor locks has been tested with 500.000 cycles.



Abloy Oy reserves the right to make alterations without notice.



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ASSA ABLOY

Abloy Oy is one of the leading manufacturers of locks, locking systems and architectural hardware and the world's leading developer of products in the field of electromechanical locking technology.

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.