

*Technical brochure*



**ABLOY® CERTA**  
DEFINED BY PERFECTION.

The billboard is set against a background of a city street at night, with light trails from cars and streetlights. The billboard itself is a large rectangular panel with a blue and white color scheme. The text 'ABLOY® CERTA' is prominently displayed in the center, with 'CERTA' in a larger, bold blue font. Below it, the tagline 'DEFINED BY PERFECTION.' is written in a smaller, white, sans-serif font. The billboard is supported by a metal structure with a walkway and railings.

**SMALL BUSINESS  
PUBLIC  
HI-SECURITY**

# THE NEW ABLOY® CERTA MOTOR LOCK RANGE

**ABLOY®** Electric locks have always offered unsurpassed safety, security, convenience and design excellence. The new **ABLOY® CERTA** motor lock range takes these engineering and design principles to a new level of perfection, and rethinks the motor lock's role as the first and best guarantee of security in small businesses, large-scale commercial properties and industrial complexes. Motor lock range consists of products which are designed to be fitted in wooden, metal and narrow profile doors.

## APPLICATIONS

**ABLOY® CERTA** Motor locks are used in the door requiring:

- Convenience (push / pull function)
- Security (no handles outside)
- High durability (high traffic doors)

-All categories have products for wooden and metal doors and for narrow profile doors as well as multipoint lock cases.

### Small business

narrow profile doors EL418, MP418

wooden and metal doors EL518, MP518

### Public

narrow profile doors EL420, MP420

wooden and metal doors EL520, MP520

### Hi-Security

narrow profile doors EL432, MP432

wooden and metal doors EL532, EL532HS, MP532

Also available locks for Swiss cylinder (RZ):

### Small business

narrow profile doors EL419, MP419

wooden and metal doors EL519, MP519

### Public

narrow profile doors EL422, MP422

wooden and metal doors EL522, MP522

### Hi-Security

narrow profile doors EL434, MP434

wooden and metal doors EL534, MP534

When exit by handle is needed, the lock is installed with the inside handle. When both access and exit are electrically controlled, the lock is installed with pulls on the both sides of the door. The locks can be electrically controlled by access control system or by other remote control system such as timecontrol, keypad or push button.

The Small Business category locks are suitable for exit doors (EN179/EN1125).

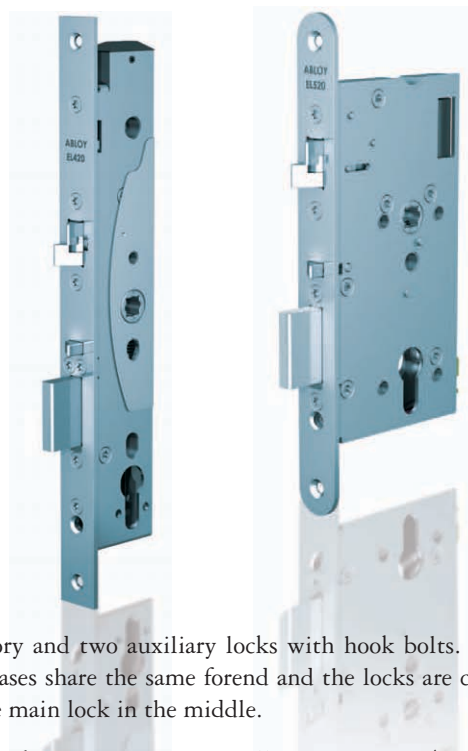
The Public category locks are suitable for exit doors (EN179/EN1125) and fire rated doors.

Hi-Security category locks are suitable for fire rated doors and exit doors (electrically controlled).

## FUNCTION

**ABLOY® CERTA** Motor lock has two deadlocking bolts: a double action bolt and a dead bolt. The dead bolt is withdrawn inside the lock case by motor and the double action bolt is released, when electrical control is on.

**ABLOY® CERTA** multipoint locks contain main motor lock in the middle based on a single point lock of the chosen



category and two auxiliary locks with hook bolts. All three lock cases share the same forend and the locks are controlled by the main lock in the middle.

The locks in categories Small Business (EL418, EL518) and Public (EL420, EL520) can always be opened by inside handle. The inside handle of the locks in Hi-Security category (EL432, EL532, EL532HS) is electrically controlled but in case of emergency or power failure the locks can always be opened by the inside handle. Mechanical opening by cylinder is always possible.

## CONTROL SWITCH

Momentary (Public and Hi-security):

Dead bolt is retained inside the lock case for the adjusted delay of 2...15 seconds.

Continuous (Small business, Public and Hi-Security):

Dead bolt is retained inside the lock case as long as electrical control is on.

When the door closes and the delay or electrical control is off, both bolts are deadlocked. In case of power failure the bolts are always deadlocked in categories Public (EL420, EL520) and Hi-Security (EL432, EL532). In category Small Business (EL418, EL518) the bolt remains its current position in case of power failure.

## STANDARDS

EN 179	Exit
EN 1125	Panic exit
EN 1634-1	Fire resistance
EN 61000-6-1	EMC
EN 61000-6-3	EMC
EN 12209	Mechanical resistance
EN 14846	Electrical locks

### LOCAL STANDARDS

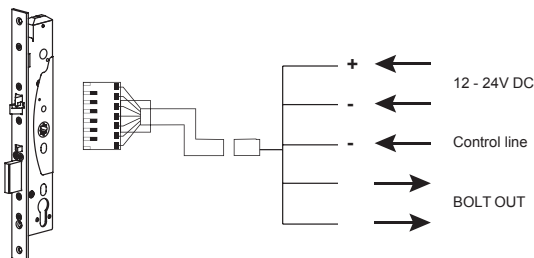
NEN 5089	SKG, mechanical strength and burglary resistance
----------	--

### GOST-R

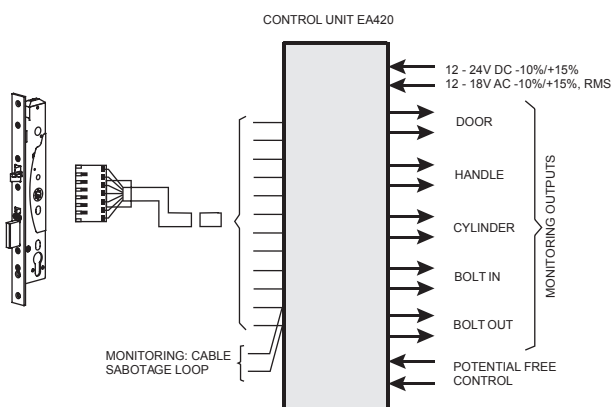
Abloy electromechanical lock cases are always tested according to the latest versions of the standards.

# CONTROL PRINCIPLE AND AVAILABLE MONITORING OUTPUTS

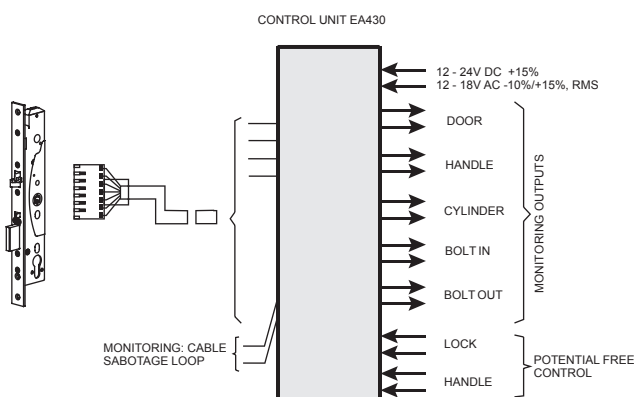
## SMALL BUSINESS



## PUBLIC



## HI-SECURITY



## STANDARD DELIVERY

Standard delivery includes:

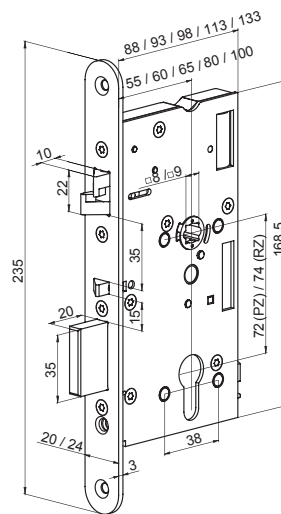
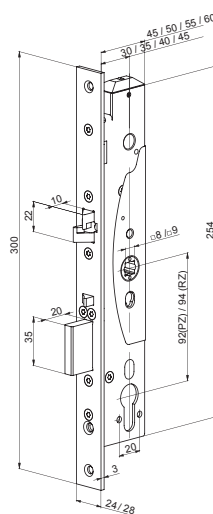
- Lock case
- Fixing screws etc.
- Spindle adapters
- Installation manual

Please specify when ordering:

- Lock type
- Backset
- Forend
- Strike plate

## DIMENSIONS

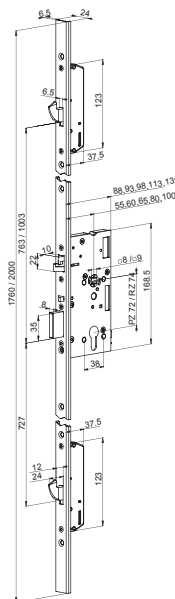
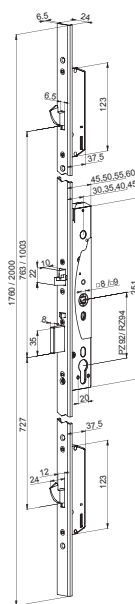
For SMALL BUSINESS, PUBLIC AND HI-SECURITY,  
singlepoint locks



For narrow stile doors

For wooden and metal doors

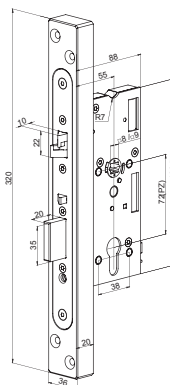
For SMALL BUSINESS, PUBLIC AND HI-SECURITY,  
multipoint locks



For narrow stile doors

For wooden and metal doors

For HIGH-SECURITY LOCK EL532HS



The high security handle set is to be used with EL532HS to obtain the ultimate security (DH628 Inoxi Security Set1). Minimum door thickness with high security handle set is 64 mm. Handing must be defined when ordering.

The high security handle set is also compatible with other Certa lock cases (for wooden and metal doors) to obtain more security.

For wooden and  
metal doors

## TECHNICAL DETAILS

	SMALL BUSINESS	PUBLIC	HI-SECURITY
OPERATING VOLTAGE	12-24 VDC (+15%)	12-24 VDC (+/-15%) 12-18VAC RMS (-10%/+15%)	12-24 VDC (+/-15%) 12-18 VAC RMS (-10%/+15%)
CURRENT - Max - Normal - Idle	0.7 A (12 V), 0.45 A (24 V) 0.125 A (12 V), 0.08 A (24 V) 0.025 A (12 V), 0.02 A (24 V)	1.3 A (12 V), 0.6 A (24 V) 0.45 A (12 V), 0.22 (24 V) 0.08 A (12 V), 0.04 A (24 V)	0.75 A (12 V), 0.58 A (24 V) 0.25 A (12 V), 0.15 A (24 V) 0.1 A (12 V), 0.06 A (24 V)
RELAYS	Max. 0.1 A 30 V AC/ DC resist. 3 W	Max. 0.8 A 30 V AC/ DC resist. 20 W	Max. 0.8 A 30 V AC/ DC resist. 20 W
OPERATING TEMPERATURE	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C
BOLT THROW - Deadbolt - Double action bolt - Hook bolt in multipoints	20 mm 10 mm 24 mm	20 mm 10 mm 24 mm	20 mm 10 mm 24 mm
BACKSET - Wooden and metal doors - Narrow profile doors	55, 60, 65, 80, 100 mm 30, 35, 40, 45 mm	55, 60, 65, 80, 100 mm 30, 35, 40, 45 mm	55, 60, 65, 80, 100 mm 30, 35, 40, 45 mm
FOREND - Wooden and metal doors - Narrow profile doors - Multipoints	20, 24 mm 24, 28 mm 24 x 6.5 x 1760/2000 mm	20, 24 mm 24, 28 mm 24 x 6.5 x 1760/2000 mm	20, 24 mm 24, 28 mm 24 x 6.5 x 1760/2000 mm
SPINDLE	9 mm (8 mm with snap spindle adapters)	9 mm (8 mm with snap spindle adapters)	9 mm (8 mm with snap spindle adapters)
SETTABLE FUNCTIONS	Mechanical functions: - Handing of trigger bolt	Mechanical functions: - Handing of trigger bolt	Mechanical functions: - Handing of trigger bolt
MONITORING OUTPUTS	Bolt out	Bolt deadlocked Bolt inside the lock case Door Closed Handle used Cylinder used Cable sabotage	Bolt deadlocked Bolt inside the lock case Door Closed Handle used Cylinder used Cable sabotage

## CAM ANGLE



## CYLINDERS, FITTINGS AND ACCESSORIES

	EUROPROFILE DIN CYLINDERS		FITTINGS	CABLE	LEAD COVERS	STRIKE PLATES for main locks	STRIKE PLATES for auxiliary locks
	ABLOY PROTEC <sup>2</sup>	ABLOY NOVEL					
SINGLE	CY321T, CY331T CY326T, CY336T	CY321, CY331U CY326U, CY336U	ABLOY®*) IKON RUKO BEZAULT Others	SMALL BUSINESS EA211 (6mm) EA221 (10mm)	EA280 EA281	EA321**) EA322 EA323**) EA324 EA325 EA326 EA327 EA328 EA329 EA330 EA331 EA332**) LP764**)	EA306 LP781
DOUBLE	CY322T, CY332T CY327T, CY337T	CY322U, CY332U CY327U, CY337U		PUBLIC EA218 (6mm) EA219 (10mm)			
SINGLE WITH THUMBTURN	CY323T, CY333T CY328T, CY338T	CY323U, CY333U CY328U, CY328U		HI-SECURITY EA230 (6m) EA231 (10m)			

\*) For further information, please contact Abloy Oy

\*\*\*) Handing must be defined

## THE SUPERIOR ABLOY® CERTA FEATURES



**ENVIRONMENTAL  
CONDITIONS**



**ELECTROMAGNETIC  
COMPATIBILITY**



**FIRE APPROVED**  
Tested according  
to EN1634



**DURABILITY**  
Tested up to 500 000  
cycles with 5 kg  
sideload



**ACCESS CONTROL**  
Available functions  
are specified  
according to concept



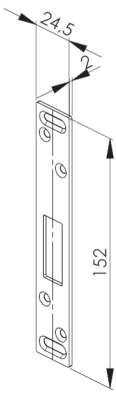
**EXIT**  
Tested according to  
EN179 and EN1125



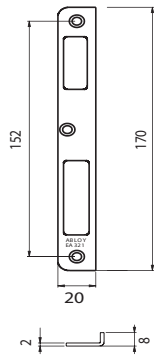
**BURGLARY  
RESISTANCE**  
Sideload strength  
from 30 000 N up to  
60 000 N

# STRIKE PLATES

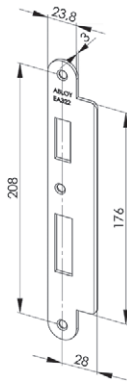
EA306



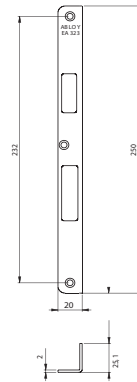
EA321<sup>\*)</sup>



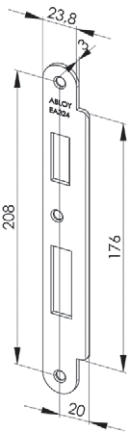
EA322



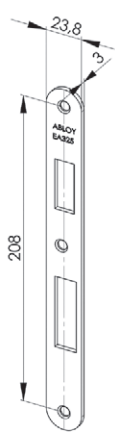
EA323<sup>\*)</sup>



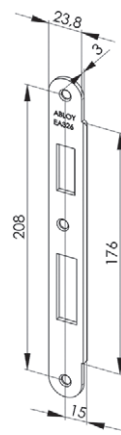
EA324



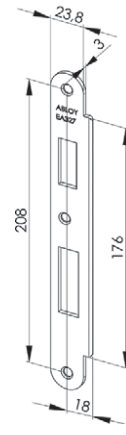
EA325



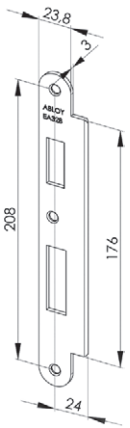
EA326



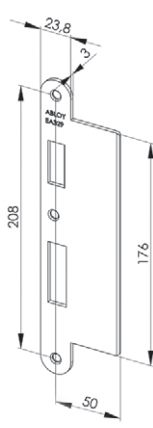
EA327



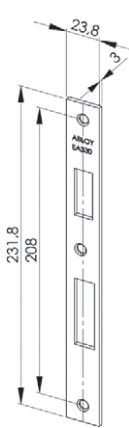
EA328



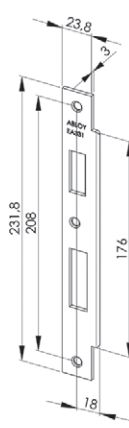
EA329



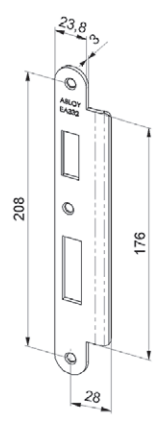
EA330



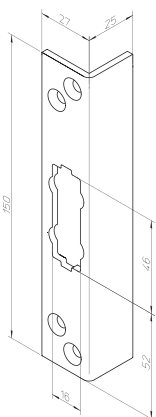
EA331



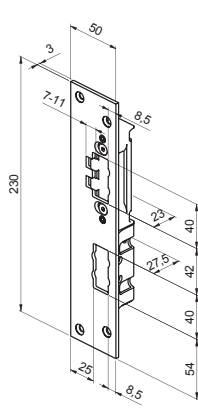
EA332<sup>\*)</sup>



LP781



LP764<sup>\*)</sup> (for EL532HS)



\*) Handing must be defined.

## EMERGENCY EXIT DEVICES ACCORDING TO EN 179

The following locks and handles are approved to be installed together in an emergency exit door to conform EN 179.

Profile door locks	ABLOY DO 20.33.01 DO 20.33.02	IKON DO 20.15.02	FSB DO 20.03.01 DO 20.03.02	HEWI DO 20.13.01 DO 20.13.02	SAPEX DO 20.32.01 DO 20.32.02
EL418 EL420	ABLOY INOXI 3-19/013/120 PZ+BL	e.g. S6B8	10 1001 79, 06 1004 79 RTG/RTV, 10 1004 79, 06 1004 79 RTG/RTV, 10 101679, 06 1016 79 RTG/RTV, 10 1023 79, 06 1023 79 RTG/RTV, 10 1035 79, 06 1035 79 RTG/RTV, 10 1045 79, 06 1045 79 RTG/RTV, 10 1070 79, 06 1070 79 RTG/RTV, 10 1078 79, 06 1078 79 RTG/RTV, 10 1083 79, 06 1083 79 RTG/RTV, 10 1107 79, 06 1107 79 RTG/RTV, 10 1108 79, 06 1108 79 RTG/RTV, 10 1119 79, 06 1119 79 RTG/RTV, 10 1146 79, 06 1146 79 RTG/RTV, 10 1159 79, 06 1159 79 RTG/RTV, 10 1160 79, 06 1160 79 RTG/RTV, 10 1163 79, 06 1163 79 RTG/RTV, 10 1189 79, 06 1183 79 RTG, 10 1222 79, 06 1222 79 RTG/RTV	111, 111.23, 114.23GK, 131, 132, 111X, 112X, 113X, 103X, 104X 165X, 166X, 171X, 172X, 186X, 187X, 127, 128, 165.21, 111.23PB, 114.23PB, 165A, 166A	e.g. 60-0719
Wooden and metal door locks	ABLOY DO 20.33.01 DO 20.33.02	IKON DO 20.15.02			SAPEX DO 20.32.01 DO 20.32.02
EL518 EL520	e.g. ABLOY INOXI 3-19/012/120 PZ+BL	e.g. S4K6			e.g. 60-0119

The safety features of this product are essential to its compliance with EN 179. No modification of any kind, other than those described in the installation manual, are permitted.

## PANIC EXIT DEVICES ACCORDING TO EN 1125

The following locks and push bars are approved to be installed together in a panic exit door to conform EN 1125. The push bars can be installed for example with above mentioned outside fittings (Table EN 179) to conform EN 1125.

Profile door locks	effef DO 30.04	JPM DO 30.05	TESA DO 30.06
EL 418 EL 420	8000-00-1100 (-), 8000-10-1100 (PZ)	NORMA 990000-XX-0A 990100-XX-0A 990001-XX-0A 990101-XX-0A 991000-XX-0 991100-XX-0A 991001-XX-0A	UNIVERSAL SERIE 19709G9xx
EL419 EL422	8000-00-1100 (-), 8000-11-1100 (RZ)		
Wooden and metal door locks	effeff DO 30.04		
EL518 EL520	8000-00-1100 (-), 8000-20-1100 (PZ)		
EL519 EL522	8000-00-1100 (-), 8000-21-1100 (RZ)		

The safety features of this product are essential to its compliance with EN 1125. No modification of any kind, other than those described in the installation manual, are permitted.

EN179 and EN1125 standards are conformed, when the above mentioned lock is installed with **ABLOY®** strike plates listed in this brochure. This document may not be used in the installation of a lock. Drilling and wiring diagrams and installation instructions are included in the installation manual, which is included in each lock case package. We reserve the right to make alterations to the products described in this leaflet.

**ABLOY® CERTA**  
DEFINED BY PERFECTION.



www.abloy.com

Abloy Oy  
Wahlforssinkatu 20  
P.O. Box 108  
FI-80101 JOENSUU  
FINLAND  
Tel. +358 20 599 2501  
Fax +358 20 599 2209

