

ABLOY® EL420, EL520

Europrofile motor locks



ABLOY® Europrofile locks can be installed with long plates or roses.

Convenience, High security, High durability - Europrofile motor locks

APPLICATIONS

ABLOY® Motor locks are used in the doors requiring:

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

The locks are recommended to be used in the interior and exterior doors of business premises, public buildings, hospitals, educational premises etc. Typical applications are:

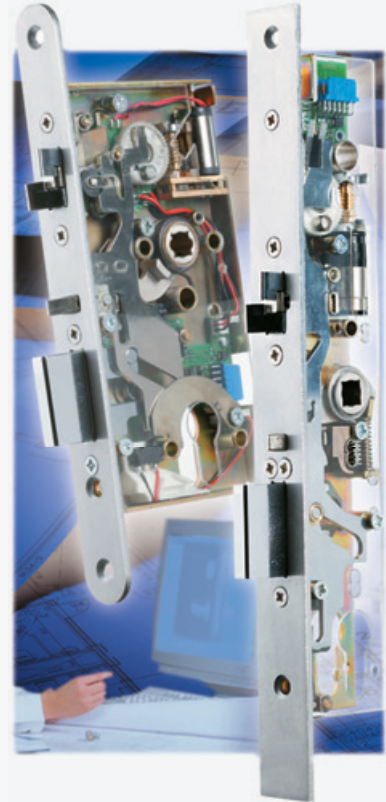
- Entrance doors
- Interior entrance doors between different building sections
- Corridor doors
- Fire doors (high traffic)
- High traffic access controlled doors
- Swing doors with door automatics

EL520 is used in wooden and metal doors. EL420 is used in narrow profile doors. When exit by handle is needed, the lock is installed with the inside handle. When both access and exit is 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 timer, keypad or push button.

The locks can be used both in exit and fire rated doors (EN).

Also available lock cases for Swiss cylinder (RZ):

- EL522 for wooden or metal doors
- EL422 for narrow profile doors



FUNCTION

ABLOY® 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 The dead bolt is withdrawn inside the lock case by motor and the double action bolt is released, when electrical control is on.

The lock can always be opened by inside handle. Mechanical opening by cylinder is always possible.

CONTROL SWITCH

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

STANDARDS

EN STANDARDS

| | |
|------------------------|-----------------------|
| EN 179:1997 + A1:2001 | Exit |
| EN 1125:1997 + A1:2001 | Panic exit |
| EN 1634-1 | Fire resistance |
| EN 61000-6-1:2007 | EMC |
| EN 61000-6-3:2007 | EMC |
| EN 12209:2004 | Mechanical resistance |

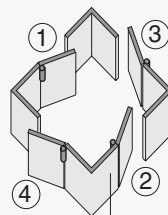
LOCAL STANDARDS

| | |
|---------------|--|
| NEN 5089:1995 | SKG, mechanical strength and burglary resistance |
|---------------|--|

GOST-R

OPENING DIRECTIONS (HANDINGS)

| ABLOY® | DIN |
|------------------|----------------|
| ① Right inwards | Left inwards |
| ② Left inwards | Right inwards |
| ③ Left outwards | Left outwards |
| ④ Right outwards | Right outwards |



STANDARD DELIVERY

Lock case is delivered with opening direction 2.4.

Standard delivery includes:

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

Please specify when ordering:

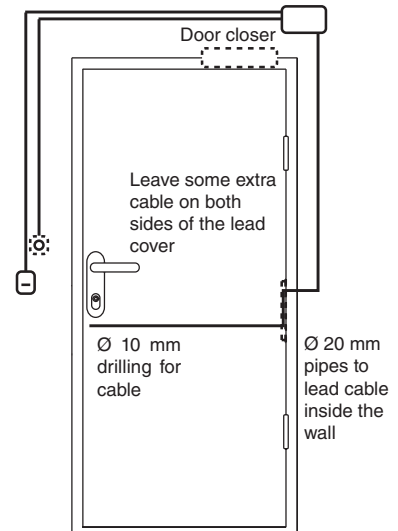
- Lock type
- Backset
- Forend
- Strike plate

TECHNICAL DETAILS

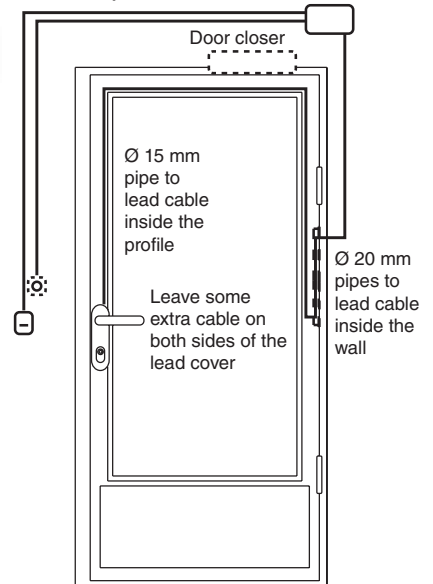
| | |
|------------------------|---|
| Operating voltage: | 12 – 24 V DC ($\pm 15\%$) 12 - 18 V AC, RMS (-10%, +15%) |
| Current: | Max. 1.3 A (12 V), 0.6 A (24 V) Normal 0.45 A (12 V), 0.22 (24 V) Idle 0.08 A (12 V), 0.04 A (24 V) |
| Relays: | Max. 0.8 A 30 V AC/DC resist, 10 W |
| Operating temperature: | -20°C - +60°C |
| Bolt throw: | 20 mm (deadbolt), 10 mm (double action bolt) |
| Backset: | 55, 60, 65, 80, 100 mm (EL520) 30, 35, 40, 45 mm (EL420) |
| Forend: | 20, 24 mm (EL520) 24, 28 mm (EL420) |
| Spindle: | 9 mm (8 mm with snap spindle adapters) |
| Settable functions: | Mechanical functions: - Handing of trigger bolt |
| Monitoring outputs: | Bolt deadlocked Bolt inside the lock case Door closed Handle used Cylinder used Cable sabotage |

DOOR ENVIRONMENT

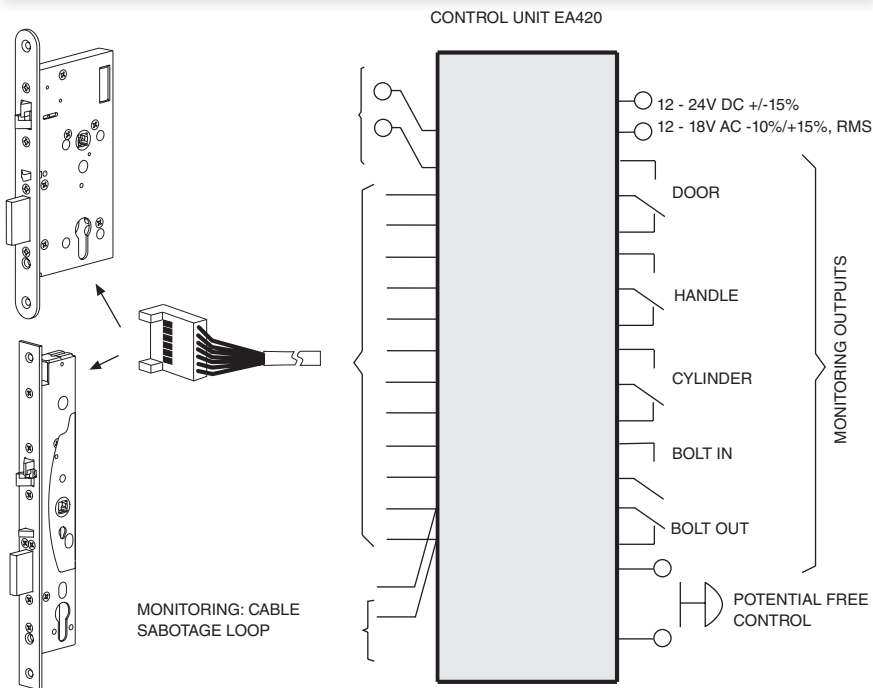
Wooden and metal doors



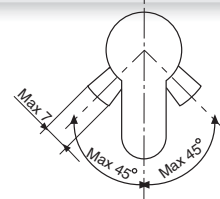
Narrow profile doors



CONTROL PRINCIPLE AND AVAILABLE MONITORING OUTPUTS



CAM ANGLE



CYLINDERS, FITTINGS AND ACCESSORIES (Please order separately)

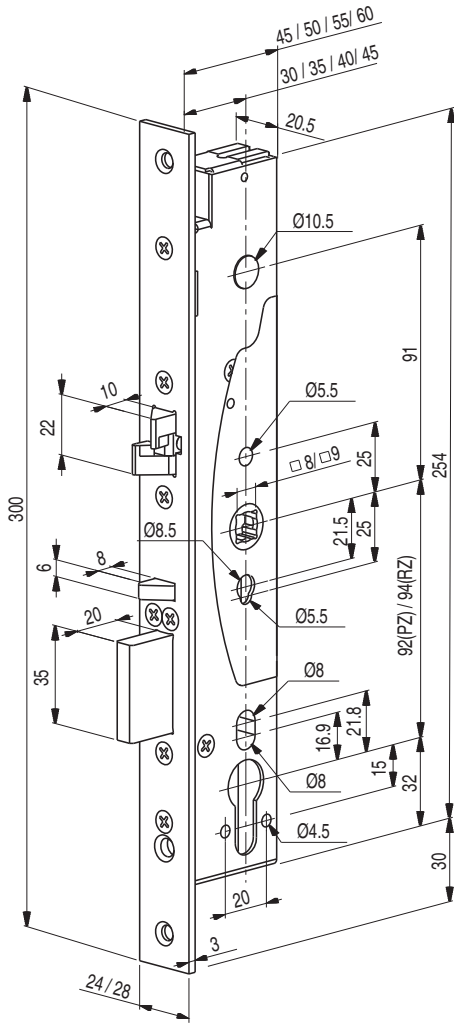
| | EUROPROFILE DIN CYLINDERS | | FITTINGS | CABLES | LEAD COVERS | STRIKE PLATES |
|-----------------------|---------------------------|--------------------|---|---------------------------|----------------|--|
| | ABLOY PROTEC | ABLOY DISKLOCK PRO | | | | |
| Single | CY321N, CY331N | CY321D | ABLOY®*) IKON Ruko BEZAULT others | EA218 (6m) EA219 (10m) | EA280 EA281 | EA321**) EA322 EA323**) EA324 EA325 EA326 EA327 EA328 EA329 EA330 EA331 EA332**) |
| Double | CY322N, CY332N | CY322D | | | | |
| Single with thumbturn | CY323N, CY333N | CY323D | | | | |

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

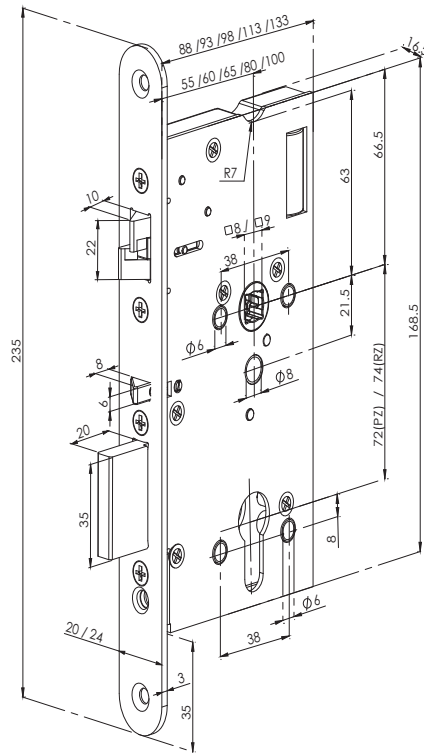
**) Handing must be defined.

DIMENSIONS

ABLOY® EL420

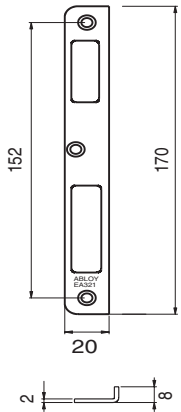


ABLOY® EL520

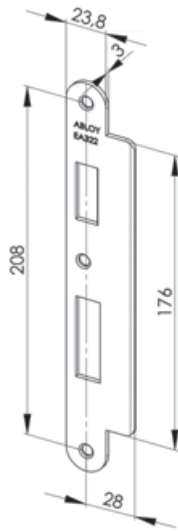


STRIKE PLATES

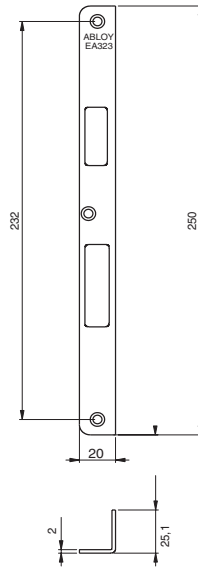
EA321 **)



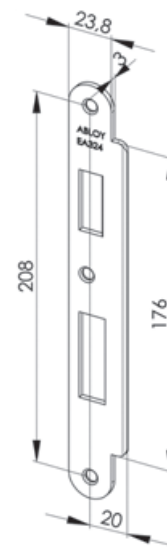
EA322



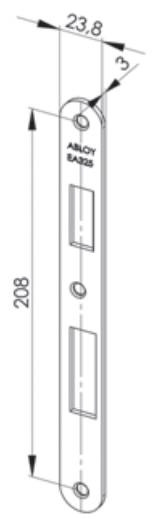
EA323 **)



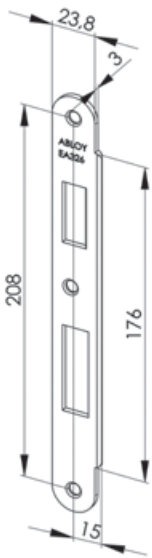
EA324



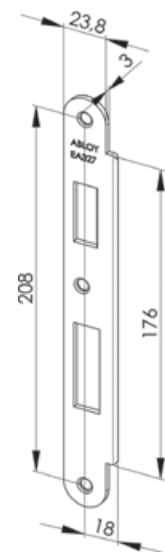
EA325



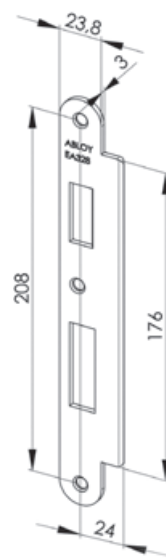
EA326



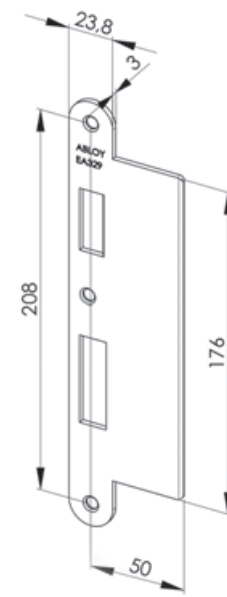
EA327



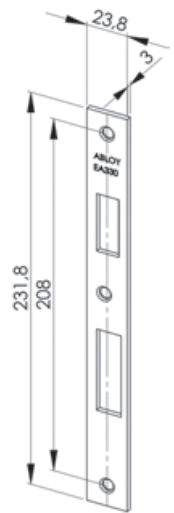
EA328



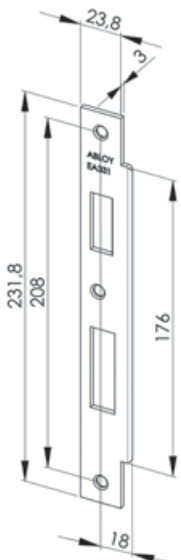
EA329



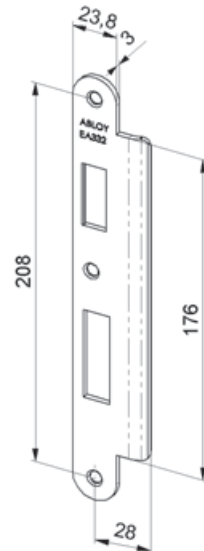
EA330



EA331



EA332 **)



**) 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 |
|-----------------------------|--|---------------------|--|--|-------------------------------------|
| EL420 | ABLOY® INOXI 3-19/013 PZ+BL | e.g. S6B8 | 1016, 1023, 1056, 1070, 1080, 1088, 1090, 1117, 1118, 1119, 1137, 1146, 1155, 1160, 1161, 1162, 1177, 1178, 1191, 0612, 0616, 0617, 0619, 0625, 0627, 0628, 0646, 0662, 0665, 0680, 0681, 0682, 0688 | 111, 111.23, 114.23GK, 131, 132, 111X, 113X, 114X, 161X, 163X, 171X, 112X, 165X, 166X | 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 |
| EL520 | e.g. ABLOY® INOXI 3-19/012 PZ+BL 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 INSTALLATION 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 | effeff DO 30.04 | JPM DO 30.05 | TESA DO 30.06 |
|-----------------------------|-------------------------------------|---|------------------------------|
| EL420 | 8000-00-1100 (-), 8000-10-1100 (PZ) | NORMA 990000-XX-0A 990100-XX-0A 990001-XX-0A 990101-XX-0A 991000-XX-0A 991100-XX-0A 991001-XX-0A 991101-XX-0A | UNIVERSAL SERIE 19709G9xx |
| EL422 | 8000-00-1100 (-), 8000-11-1100 (RZ) | | |
| Wooden and metal door locks | effeff DO 30.04 | | |
| EL520 | 8000-00-1100 (-), 8000-20-1100 (PZ) | | |
| 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.



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