Flexible operational solutions

Electric locks has a wide range of applications from medium security internal doors to high security perimeter doors. Electric locks offer the perfect combination of fast convenient access, safe exit, distance operation and surveillance and last but not least high security. Any type of superior systems, from a simple push button via timer switches and code locks to the most advanced accesscontrol- or burglary alarm systems can operate electric locks.

Secure, safe and convenient
Electric lock range stretches from high security motor locks via approved safety in emergency exit devices and convenient single hand operated solenoid handle locks to cost efficient electric strikes.
Electric Strikes

Electric strikes is the most commonly used product within electro mechanic locks. Distinguishing characteristics is speed, durability and amount of opening cycles.

Wide range for different needs
Selection of electric strike and faceplate determines by several factors. Consider security and fire protection, as well as presence or option of an automatic door opener.

The Assa electric strike range contains a wide variety of products developed for several applications and are available in three different security levels, in conjunction with latch locks.

The STEP electric strikes in conjunction with bolt or hook bolt locks. Also available are products for all glass doors as well as for potential highly explosive premises like the pneumatic strike.

Fire protection
Electric strikes can be used in fire protective doors.

Several operations
Electric strikes is offered in several operations. Provided is fail locked, fail unlocked and fail unlocked escape safe operations. Monitoring micro switches is optional provided; switches are monitoring e.g. door position and locked status.

Maintenance, Electric Strikes

Please follow enclosed documents at installation, do not diverge from these instructions prior to consulting Assa.

Maintenance

• To maintain characteristics of a Solid Electric strike, the strike should be:
  - Aligned with forend of lock case
  - Fitted with a 3 mm ± 1mm gap between faceplate of strike and forend of lock case
  - Fitted with a 1 mm ± 0,5 mm clearance between the lock's latch and the inner face of the pivoting staple
  - Every six month, apply a small amount of designated grease on pivoting staple. Highly frequented doors may need maintenance with shorter intervals.
  - Do NOT use spray lubricants; solvent may seriously harm electronics
  - Electric parts need NO maintenance
  - A protective diode (e.g. 1N4004) should be connected as close to the coil as possible. This is necessary to protect superior system from transients (peaks)
  - To maintain desired operation and security level of installed unit, it is of great importance to check and adjust the entire door environment:
    - Lock case and strike plate
    - Lock accessories (Lever handle, thumb turn etc.)
    - Hinges, framework and door threshold (sill)
    - Door closer

NB!

Warranty fails if product is:

• Wrong assembled
• Opened by unauthorised personnel (broken seal)
• Fitted with accessories or parts not supplied by Assa
Electric Strike, Heavy Duty

**SOLID 131, 5131, 8131, 331, 5331, 8331**

**Application**
SOLID High security electric strikes provides very high strength and durability, ideal for high security and high traffic applications.
Suitable for security applications such as perimeter doors, entrance doors, gates and other applications within industry, office and trading premises.
SOLID High security electric strikes with fail locked operation is rated E/EI60 for use in fire protective doors.
SOLID High security electric strikes with fail unlocked escape safe operation, offers guaranteed operation despite side pressure of 5kN (500 kg) therefore excellent in escape route applications and in air locks.

**Function**
SOLID High security electric strikes provides two main options
- Fail locked operation (131, 5131, 8131)
  - Locked in case of power failure
- Fail unlocked escape safe operation (331, 5331, 8331)
  - Unlocked escape safe in case of power failure

**Features**
- Very sturdy, well known to resist over 1 000 000 operations
- Pivoting latch and housing in steel
- Operates in conjunction with dead latched single latch locks

Fail locked operation (131, 5131, 8131)
- Rated E/EI60 for use in fire protective doors
- Will operate despite side pressure of 250N (25 kg)
- Very high strength, resists 15 kN (1500 kg)
- Very high impact and shock proof
- Optional monitoring microswitches
  - Latch bolt engagement monitoring (5131)
  - Pivoting staple deadlocking and latch bolt engagement monitoring (8131)

Fail unlocked operation (331, 5331, 8331)
- Guaranteed operation despite side pressure of 5 kN (500 Kg)
- High strength, resists 7.5 kN (750 Kg)
- Required opening force when unlocked 40 N (4kg)
- Optional monitoring microswitches
- Latch bolt engagement monitoring (5331)
- Pivoting staple deadlocking and latch bolt engagement monitoring (8313)

**Technical specification**
SOLID electric strikes rated DC only.
A protective diode (e.g. 1N4004) should be connected as close to the coil as possible. This is necessary to protect superior system from transients (peaks)

- Current / Voltage, fail locked (131, 5131, 8131)
  300 mA @ 12 VDC ± 10 %
  160 mA @ 24 VDC ± 10 %
- Current / Voltage, fail unlocked (331, 5331, 8331)
  490 mA @ 12 VDC ± 10 %
  230 mA @ 24 VDC ± 10 %
- Micro switches changeover NO/NC
  Rated 1 A @ 30 VDC
Electric Strike SOLID, Heavy Duty

**Typical installation**
To maintain characteristics of a Solid Electric strike, the strike should be fitted with a 3 mm ± 1 mm gap between faceplate of strike and forend of lock case.

A protective diode should be connected; stripe on diode should be wired to + (all)

**Accessories**
A variety of faceplates suited for SOLID High security electric strikes is provided. Selection of faceplate origin in door and frame material and measurement as well as type of application.
Faceplates for SOLID Electric Strike, Heavy Duty

SOLID 816, 823, 824, 830, 830T, 827KB
SOLID 840, 841, 842, 843, 845, 846, 847

Application
SOLID faceplates for high security electric strikes adapts fitting and characteristics to the present application.

Function
Selection of electric strike and faceplate determines by several factors. Consider security and fire protection as well as presence or option of an automatic door opener. Door and frame design is crucial i.e. modular- or narrow style profile. Material is also an issue e.g. wood, aluminium or steel. To select the right product you also have to know which type of mechanical lock that is provided to operate in conjunction with the electric strike and the measurement from door surface (on hinge side) to the flat side of the latch (lip width).

Features
SOLID high security electric strikes with fail locked operation in conjunction with cylinder latch locks (without back-lock feature) is approved according to European standards for use in fire protective doors grade EI/E60. If any uncertainty regarding lock / strike combination in a fire protective door occurs, please get in contact with Assa or your local Assa dealer.

Technical specifications
SOLID 816
- Wood frames
- Dead latched cylinder latch locks
- Lip width 15 mm

SOLID 823
- Steel or wood frames
- Dead latched cylinder latch locks
- Lip width 4 mm

SOLID 824
- Steel or wood frames
- Dead latched cylinder latch locks
- Lip width 15 mm

SOLID 830, 830T*
- Steel or wood frames
- Dead latched cylinder latch locks
- Lip width 15 mm

SOLID 827KB
- Very strong interconnecting application
- Steel or wood frames
- Dead latched cylinder latch lock Assa 5585 or 6585
- Lip width 15 mm
- Includes interconnecting faceplate for lock case
* T indicates faceplates with rounded corners

SOLID 840, 841, 842, 843, 845, 846, 847
- SOLID supplies a wide range of tailor-made faceplates for SAPA, Schüco and Wicona Aluminium profile systems, see separate pages
SOLID 827KB is a very strong interconnecting application that will improve break-in resistance substantially.
Surface-mount Housing A01, A03, A04

Application
A01 is surface mount housing for SOLID high security electric strikes. A01 installation: in the overhead frame and the top part of the door on the frame side. Use mounting bracket A03 in conjunction with A01 when overhead frame is flush with door. Use mounting accessory A04 on all-glass doors.

Function
Suites for SOLID high security electric strike, fail unlocked (escape safe) or locked operation:
- Fail locked operation (131, 5131, 8131)
  - Locked in case of power failure
- Fail unlocked (escape safe) operation (331, 5331, 8331)
  - Unlocked escape safe in case of power failure

Features
- Bracket and lock hatch in steel, cover in stainless steel
- Very sturdy, well known to resist over 1,000,000 operations

With fail locked operation electric strike (131, 5131, 8131):
- Will operate despite side pressure of 250N (25 kg)
- Very high strength, resists 15 kN (1500 kg)
- Very high impact and shock proof
- Optional monitoring microswitches:
  - Latch bolt engagement monitoring (5131)
  - Pivoting staple deadlocking and latch bolt engagement monitoring (8131)

With fail unlocked operation electric strike (331, 5331, 8331):
- Guaranteed operation despite side pressure of 5 kN (500 Kg)
- High strength, resists 7.5 kN (750 Kg)
- Impact and shock proof
- Required opening force when unlocked 40 N (4kg)
- Optional monitoring microswitches:
  - Latch bolt engagement monitoring (5331)
  - Pivoting staple deadlocking and latch bolt engagement monitoring (8331)

Technical specifications
- Measurements A01
  168×57×40 mm
- Measurements A03
  168×47×47 mm
Electric Strikes, Standard Security

**SOLID 75, 575, 70, 570, 71, 571**

**Application**
SOLID Standard security electric strikes provide high strength and durability, ideal for high traffic applications. Suitable for perimeter doors, entrance doors, gates, and other high traffic applications within industry, office, and trading premises. SOLID High security electric strikes with fail locked operation is rated E/EI60 for use in fire protective doors. SOLID High security electric strikes with fail unlocked operation offers fail safe operation, i.e., guaranteed opening despite side pressure of 5kN (500 kg) therefore excellent in escape route applications and in air locks.

**Function**
SOLID Standard security electric strikes provide three main options
- Universal operation (75, 575)
  - Fail locked / unlocked operation easy selectable on site
  - 12-24 VAC/VDC
- Fail locked operation (70, 570)
  - Locked in case of power failure
- Fail unlocked operation (71, 571)
  - Unlocked in case of power failure

**Features**
- Durable, well known to resist over 500,000 operations
- Suited to fire protective doors in conjunction with double latch lock and designated faceplate
- Pivoting staple in bronze and housing in zinc alloy
- Operates in conjunction with dead latched single or double latch locks

**Universal operation (75, 575)**
- Provides fail locked / unlocked operation, selectable on site
- Multi voltage 12 – 24 VAC/VDC
- High strength, resists 7 kN (700 kg)
- Impact and shock proof
- Optional monitoring micro switch
  - Latch bolt engagement monitoring (575)

**Fail locked operation (70, 570)**
- High strength, resists 7 kN (700 kg)
- Impact and shock proof
- Optional monitoring micro switch
  - Latch bolt engagement monitoring (570)

**Fail unlocked operation (71, 571)**
- High strength, resists 7 kN (700 Kg)
- Impact and shock proof
- Optional monitoring micro switch
  - Latch bolt engagement monitoring (571)

**Technical specifications, Universal (75, 575)**
SOLID Universal operation provides built-in transient (peak) protection
- Current / voltage, 340 mA - 185 mA @ 12 - 24 VAC/VDC ± 10 %

**Technical specifications, (70, 570, 71, 571)**
SOLID electric strikes rated DC only. A protective diode (e.g. 1N4003) should be connected as close to the coil as possible. This is necessary to protect superior system from transients (peaks)
- Current / Voltage (70, 71, 570, 571)
  - 230 mA @ 12 VDC ± 10 %
  - 140 mA @ 24 VDC ± 10 %
- Micro switches changeover NO/NC
  - Rated 1 A @ 30 VDC
Typical installation
To maintain characteristics of a Solid Electric strike, the strike should be fitted with a 3 mm ± 1mm gap between faceplate of strike and forend of lock case.

Lock case Evo 221-50
Faceplate 730
Electric strike 575

A protective diode should be connected; stripe on diode should be wired to + (NOT valid for Universal)

Electric strike (75, 70, 71)

Electric strike with latch bolt monitoring switch (575, 570, 571)

Accessories
A variety of faceplates suited for SOLID Standard security electric strikes is provided. Selection of faceplate origin in door and frame material and measurement as well as type of application.
Faceplates for SOLID Electric Strike, Standard

SOLID 725, 730, 730T, 731/17, 731/20, 731/26, 732, 732T, 733/17, 733/20, 733/26, 735, 737, 750, 740, 741, 742, 743, 745, 746, 747

Application
SOLID faceplates for Standard security electric strikes adapts fitting and characteristics to the present application.

Function
Selection of electric strike and faceplate determines by several factors. Consider security and fire protection as well as presence or option of an automatic door opener. Door and frame design is crucial i.e. modular- or narrow style profile Material is also an issue e.g. wood, aluminium or steel. To select the right product you also have to know which type of mechanical lock that is provided to operate in conjunction with the electric strike and the measurement from door surface (on hinge side) to the flat side of the latch (lip width).

Features
Use in fire protective doors
SOLID Standard security electric strikes in conjunction with double latch locks is approved according to European standards for use in fire protective doors grade EI/E60.

If any uncertainty regarding lock / strike combination in a fire protective door occurs, please get in contact with Assa or your local Assa dealer.

Technical specifications

**SOLID 725**
- Wood, steel or aluminium frame
- Dead latched double latch locks
- Lip width 15 mm

**SOLID 730, 730T**
- Wood, steel or aluminium frame
- Dead latched double latch locks
- Pölsmått 15 mm

**SOLID 731/17, 731/20, 731/26**
- Wood, steel or aluminium frame
- Dead latched double latch locks
- Lip width 17/20/26 mm

**SOLID 732, 732T**
- Wood, steel or aluminium frame
- Dead latched cylinder latch locks
- Lip width 15 mm

**SOLID 733/17, 733/20, 733/26**
- Wood, steel or aluminium frame
- Dead latched cylinder latch locks
- Lip width 17/20/26 mm

**SOLID 735**
- Aluminium frame
- Dead latched double latch locks
- Lip width 5 mm

**SOLID 737**
- Aluminium frame
- Dead latched double latch locks
- Pölsmått 27 mm

**SOLID 750**
- Steel frame
- Dead latched double latch locks
- Lip width 10,5 mm

*S T indicates faceplates with rounded corners

SOLID 740, 741, 742, 743, 745, 746, 747
- SOLID supplies a wide range of tailor-made faceplates for SAPA, Schüco and Wicona Aluminium profile systems, see separate pages
Faceplates, Standard

SOLID 735 and 737 does NOT fit
Universal operation strike (75, 575)
Electric Strike, Medium Security

SOLID 14, 514, 114, 5114

Application
SOLID Medium security electric strikes provides medium strength and durability; suitable for medium security applications such as internal doors within industry, office and trading premises

Function
SOLID Medium security electric strikes provides two main options
• Fail locked operation (14, 514)
  - Locked in case of power failure
• Fail unlocked operation (114, 5114)
  - Unlocked in case of power failure

Features
• Pivoting staple in steel and housing in zinc alloy
• Do NEVER use SOLID Medium security electric strikes in fire protective doors
• Operates in conjunction with dead latched single or double latch locks

Fail locked operation (14, 514)
• Medium strength, resists 4 kN (400 kg)
• Optional monitoring micro switch
  - Latch bolt engagement monitoring (514)

Fail unlocked operation (114, 5114)
• Medium strength, resists 4 kN (400 Kg)
• Optional monitoring micro switch
  - Latch bolt engagement monitoring (5114)

Technical specifications
SOLID electric strikes rated DC only.
A protective diode (e.g. 1N4004) should be connected as close to the coil as possible. This is necessary to protect superior system from transients (peaks).

• Current / Voltage (14, 114, 514, 5114)
  190 mA @ 12 VDC ± 10 %
  110 mA @ 24 VDC ± 10 %
• Micro switches changeover NO/NC
  Rated 1 A @ 30 VDC

Accessories
A variety of faceplates suited for SOLID Medium security electric strikes is provided. Selection of faceplate origin in door and frame material and measurement as well as type of application.
Typical installation
To maintain characteristics of a Solid Electric strike, the strike should be fitted with a 3 mm ± 1mm gap between faceplate of strike and forend of lock case.

Lock case Evo 231-50
Faceplate 510
Electroc strike 514

A protective diode should be connected; stripe on diode should be wired to +

Electric strike (14, 114)
Electric strike with latch bolt monitoring switch (514, 5114)
Faceplates for SOLID Electric Strikes, in Single Performance

SOLID 505, 507, 510, 510T, 511, 511T, 512, 520, 521, 528

Application
SOLID faceplates for Medium security electric strikes adapts fitting and characteristics to the present application.

Function
Selection of electric strike and faceplate determines by several factors
Consider security and fire protection as well as presence or option of an automatic door opener.
Door and frame design is crucial i.e. modular- or narrow style profile.
Material is also an issue e.g. wood, aluminium or steel.
To select the right product you also have to know which type of mechanical lock that is provided to operate in conjunction with the electric strike and the measurement from door surface (on hinge side) to the flat side of the latch (lip width).

Features
Use in fire protective doors.
Do NEVER use SOLID Medium security electric strikes in fire protective doors.
If any uncertainty regarding lock / strike combination in a fire protective door occurs, please get in contact with Assa or your local Assa dealer.

Technical specifications
SOLID 505
• Steel or aluminium frame
• Dead latched double latch locks
• Lip width 5 mm
SOLID 507
• Wood, steel or aluminium frame
• Single latch locks
• Lip width 17 mm
SOLID 510, 510T*
• Wood, steel or aluminium frame
• Dead latched single latch locks
• Lip width 15 mm
SOLID 511, 511T*
• Wood, steel or aluminium frame
• Dead latched double latch locks
• Lip width 15 mm
SOLID 512
• Wood frame with thin rebated door
• Dead latched double latch locks
• Lip width 5 mm
SOLID 520
• Aluminium frame
• Dead latched single latch locks
• Lip width 26 mm
SOLID 521
• Aluminium frame
• Dead latched double latch locks
• Lip width 26 mm
SOLID 528
• Wood frame
• Single latch locks
• Lip width 5 mm

* T indicates faceplates with rounded corners

SOLID 540, 541, 542, 543, 545, 546, 547
• SOLID supplies a wide range tailormade faceplates for SAPA, Schüco and Wicona Aluminium profile systems, see separate pages
Faceplate, Single
Faceplates for SOLID Electric Strikes
to adjust SapaFront Profiles

SOLID 540, 541, 542, 543
SOLID 740, 741, 742, 743
SOLID 840, 841, 842, 843

Application
SOLID electric strike faceplates tailor-made for SapaFront aluminium profile system adapts fitting and characteristics to an Assa - SapaFront standard preparation.

Function
Selection of electric strike and faceplate determines by several factors
Consider security and fire protection as well as presence or option of an automatic door opener
Assa offers SOLID electric strikes in three security levels:

SOLID high security electric strikes
• Very high strength 7.5 kN - 15 kN (750-1500 kg)
• Guaranteed to open despite applied side load
• Fire approval certified for fail locked operated versions
• Operates in conjunction with dead latched single latch locks

SOLID standard security electric strikes
• High strength 7 kN (700 kg)
• Suited in fire protective doors in conjunction with double latch locks
• Operates in conjunction with dead latched single and double latch locks

SOLID medium security electric strikes
• Medium strength 4 kN (400 kg)
• Do NEVER use SOLID Medium security electric strikes in fire protective doors
• Operates in conjunction with single latch locks

Features
• SOLID SapaFront faceplates is offered to door and frame profiles according to schedule below
• In SapaFront frames with Assa – SapaFront standard preparation can any electric strike security level be installed without altering preparation
• If an Assa classic narrow profile lock (e.g. 1385) is situated in a SapaFront installation, the lock must be provided with 22 mm wide forend

Use in fire protective doors
SOLID high security electric strikes with fail locked operation in conjunction with cylinder latch locks (without back-lock feature) or SOLID Standard security electric strikes in conjunction with double latch locks is approved according to European standards for use in fire protective doors grade EI/E60.
If any uncertainty regarding lock / strike combination in a fire protective door occurs, please get in contact with Assa or your local Assa dealer.

<table>
<thead>
<tr>
<th>SapaFront building system</th>
<th>SOLID electric strike security level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>High security</td>
</tr>
<tr>
<td>2050</td>
<td>840</td>
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<tr>
<td>2060</td>
<td>842</td>
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<tr>
<td>2071 inswing</td>
<td>840</td>
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<tr>
<td>2071 outswing</td>
<td>841</td>
</tr>
<tr>
<td>2074</td>
<td>843</td>
</tr>
</tbody>
</table>
Faceplates, SapaFront
Faceplates for SOLID Electric Strike, for Schüco Profile System

Faceplate SOLID 545, 745, 845
Strike plate SOLID 545

Application
SOLID electric strike faceplates and strike plate tailor-made for Schüco aluminium profile systems Royal S65 and Royal S50N adapts fitting and characteristics to an Assa – Schüco standard preparation.

Function
Selection of electric strike and faceplate determines by several factors
Consider security and fire protection as well as presence or option of an automatic door opener.
Assa offers SOLID electric strikes in three security levels:

SOLID high security electric strikes
• Very high strength 7.5 kN - 15 kN (750-1500 kg)
• Guaranteed to open despite applied side load
• Fire approval certified for fail locked operated versions
• Operates in conjunction with dead latched single latch locks

SOLID standard security electric strikes
• High strength 7 kN (700 kg)
• Suited in fire protective doors in conjunction with double latch locks
• Operates in conjunction with dead latched single and double latch locks

SOLID medium security electric strikes
• Medium strength 4 kN (400 kg)
• Do NEVER use SOLID Medium security electric strikes in fire protective doors
• Operates in conjunction with single latch locks

Features
• SOLID Schüco faceplates and strike plate is offered to door and frame profiles Royal S65 and Royal S50N
• In Schüco frames with Assa – Schüco standard preparation can any electric strike security level be installed without altering preparation
• SOLID strike plate 545 is suited to fit the same standard preparation

Use in fire protective doors
SOLID high security electric strikes with fail locked operation in conjunction with cylinder latch locks (without back-lock feature) or SOLID Standard security electric strikes in conjunction with double latch locks is approved according to European standards for use in fire protective doors grade EI/E60.
If any uncertainty regarding lock / strike combination in a fire protective door occurs, please get in contact with Assa or your local Assa dealer.
Faceplates for SOLID Electric Strike, for Wicstyle 65/65N Profile System

Faceplate SOLID 546, 746, 846, 547, 747, 847
Strike Plate SOLID 546, 547

Application
SOLID electric strike faceplates and strike plate tailor-made for Wicona aluminium profile systems Wicstyle 65/65N adapts fitting and characteristics to an Assa – Wicona standard preparation.

Function
Selection of electric strike and faceplate determines by several factors. Consider security and fire protection as well as presence or option of an automatic door opener.

Assa offers SOLID electric strikes in three security levels:

SOLID high security electric strikes
• Very high strength 7,5 kN - 15 kN (750-1500 kg)
• Guaranteed to open despite applied side load
• Fire approval certified for fail locked operated versions
• Operates in conjunction with dead latched single latch locks

SOLID standard security electric strikes
• High strength 7 kN (700 kg)
• Suited in fire protective doors in conjunction with double latch locks
• Operates in conjunction with dead latched single and double latch locks

SOLID medium security electric strikes
• Medium strength 4 kN (400 kg)
• Do NEVER use SOLID Medium security electric strikes in fire protective doors
• Operates in conjunction with single latch locks

Features
• SOLID Wicona faceplates and strike plates is offered to door and frame profiles Wicstyle 65/65N according to schedule below
• In Wicona frames with Assa – Wicona standard preparation can any electric strike security level be installed without altering preparation
• SOLID strike plates 546 and 547 is suited to fit the same standard preparation

Use in fire protective doors
SOLID high security electric strikes with fail locked operation in conjunction with cylinder latch locks (without back-lock feature) or SOLID Standard security electric strikes in conjunction with double latch locks is approved according to European standards for use in fire protective doors grade EI/E60.

If any uncertainty regarding lock / strike combination in a fire protective door occurs, please get in contact with Assa or your local Assa dealer.

<table>
<thead>
<tr>
<th></th>
<th>Outswing doors</th>
<th>Inswing doors</th>
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<tbody>
<tr>
<td>Faceplate</td>
<td>546 746 846</td>
<td>547 747 847</td>
</tr>
<tr>
<td>Strike plate</td>
<td>546 547</td>
<td>547</td>
</tr>
</tbody>
</table>
Electric Strikes for Assa Evolution with Hook Bolt

**STEP 18**

**Application**
STEP 18 High security electric strike operates in conjunction with Assa Evolution hook bolt or hook bolt latch (sash) locks.
STEP 18 also operates Assa Evolution 710, an EN179 approved emergency exit lock, this application combines the above with safe emergency exit.

**Function**
- Pivoting staple in STEP 18 pushes / pivots open by locked hook bolt at door opening.
- At door closure the locked hook bolt will push / pivot staple back in locked position.
- Must be ordered left or right hinged.

**Features**
- Pivoting staple in hardened steel and housing in stainless steel
- Rated E/EI60 for use in fire protective doors in conjunction with hook bolt latch (sash) locks
- Operates in conjunction with Assa Evolution hook bolt or hook bolt latch -(sash) locks

**Fail locked operation (ST180)**
- Very high strength, resists 15 kN (1500 kg)
- Built-in monitoring micro switches
- Hook bolt engagement monitoring
- Pivoting staple deadlocking

**Fail unlocked operation (ST181)**
- Very high strength, resists 15 kN (1500 kg)
- Built-in monitoring micro switches
- Hook bolt engagement monitoring
- Pivoting staple deadlocking

<table>
<thead>
<tr>
<th>Ordering options</th>
<th>Voltage +/- 10 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Voltage +/- 10 %</td>
</tr>
<tr>
<td>ST 180-A Fail locked, left hinged</td>
<td>24 VDC</td>
</tr>
<tr>
<td>ST 180-B Fail locked, right hinged</td>
<td>24 VDC</td>
</tr>
<tr>
<td>ST 181-A Fail unlocked, left hinged</td>
<td>24 VDC</td>
</tr>
<tr>
<td>ST 181-B Fail unlocked, right hinged</td>
<td>24 VDC</td>
</tr>
<tr>
<td>ST 180-A12 Fail locked, left hinged</td>
<td>12 VDC</td>
</tr>
<tr>
<td>ST 180-B12 Fail locked, right hinged</td>
<td>12 VDC</td>
</tr>
<tr>
<td>ST 181-A12 Fail unlocked, left hinged</td>
<td>12 VDC</td>
</tr>
<tr>
<td>ST 181-B12 Fail unlocked, right hinged</td>
<td>12 VDC</td>
</tr>
</tbody>
</table>
**Technical specifications**
STEP electric strikes provides built-in transient (peak) protection
- Current / Voltage (ST 180, ST 181)
  540 mA @ 12 VDC ± 10 %
  270 mA @ 24 VDC ± 10 %
- Micro switches changeover NO/NC
  Rated 1 A @ 30 VDC

**Suitable lock case types**
Assa Evolution hook bolt or hook bolt latch (sash) locks

**Accessories**
Connecting cable, 5m (included)

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Type</th>
<th>Measurement</th>
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<tbody>
<tr>
<td>Faceplate</td>
<td>Flat</td>
<td>ST 183-A</td>
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<tr>
<td></td>
<td>left</td>
<td>300 × 40, lip width 14,0 mm</td>
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<tr>
<td></td>
<td>right</td>
<td>300 × 40, lip width 14,0 mm</td>
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<tr>
<td>Wrap around</td>
<td>left</td>
<td>ST 184-A</td>
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<tr>
<td></td>
<td>300 × 40 × 27, lip width 15,5 mm</td>
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</tr>
<tr>
<td></td>
<td>right</td>
<td>ST 184-B</td>
</tr>
<tr>
<td></td>
<td>300 × 40 × 27, lip width 15,5 mm</td>
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<tr>
<td>SapaFront 2074</td>
<td>left</td>
<td>ST 187-A</td>
</tr>
<tr>
<td>SapaFront 2074</td>
<td>right</td>
<td>ST 187-B</td>
</tr>
</tbody>
</table>
Electric Strikes for Assa Evolution with Hook Bolt and Lever Handle Function

STEP 28

Application
STEP 28 High security electric strike operates in conjunction with Assa Evolution hook bolt latch (sash) locks.
STEP 28 operates with Assa Evolution with fully thrown hook bolt which combines high security electric strike with superior strength Assa Evolution hook bolt.
STEP 28 also operates Assa Evolution 710; an EN179 approved emergency exit lock, this application combines the above with safe emergency exit.
STEP 28 compared with STEP 18 offers two pivoting staples which provides operation with automatic door opener with retained fire approval E/EI60.

Function
• STEP 28 offers two pivoting staples; one that pushes / pivots open by locked hook bolt at door opening.
• At door closure the locked hook bolt will push / pivot staple back in locked position.
• Fully thrown hook bolt engaged in staple will provide second staple to free-pivot; this operation offers automatic door opener to operate.
• Withdrawn hook bolt by e.g. emergency exit device will lock second staple and remain within full fire approval.
• Must be ordered left or right hinged.

Features
• Pivoting staple in hardened steel and housing in stainless steel
• Rated E/EI60 for use in fire protective doors in conjunction with hook bolt latch (sash) locks
• Operates in conjunction with Assa Evolution hook bolt latch (sash) locks
  Fail locked operation (ST280)
  • Very high strength, resists 15 kN (1500 kg)
  • Built-in monitoring micro switches
  • Hook bolt engagement monitoring
  • Pivoting staple deadlocking

Ordering options

<table>
<thead>
<tr>
<th>Type</th>
<th>Voltage +/- 10 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 280-A Fail locked, left hinged</td>
<td>24 VDC</td>
</tr>
<tr>
<td>ST 280-B Fail locked, right hinged</td>
<td>24 VDC</td>
</tr>
<tr>
<td>ST 280-A12 Fail locked, left hinged</td>
<td>12 VDC</td>
</tr>
<tr>
<td>ST 280-B12 Fail locked, right hinged</td>
<td>12VDC</td>
</tr>
</tbody>
</table>
Electric Strikes STEP for Hook Bolt Lock

Technical specifications
STEP electric strikes provides built-in transient (peak) protection
- Current / Voltage (ST 280)
  540 mA @ 12 VDC ± 10 %
  270 mA @ 24 VDC ± 10 %
- Micro switches changeover NO/NC
  Rated 1 A @ 30 VDC

Suitable lock case types
Assa Evolution hook bolt latch (sash) locks

Accessories
Connecting cable, 5m (included)

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Type</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faceplate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flat</td>
<td>left</td>
<td>ST 283-A</td>
</tr>
<tr>
<td>Flat</td>
<td>right</td>
<td>ST 283-B</td>
</tr>
<tr>
<td>Wrap around</td>
<td>left</td>
<td>ST 284-A</td>
</tr>
<tr>
<td>Wrap around</td>
<td>right</td>
<td>ST 284-B</td>
</tr>
<tr>
<td>SapaFront 2074</td>
<td>left</td>
<td>ST 287-A</td>
</tr>
<tr>
<td>SapaFront 2074</td>
<td>right</td>
<td>ST 287-B</td>
</tr>
</tbody>
</table>
Electric Strikes for Assa Classic Dead Lock

STEP 25

Application
STEP 25 High security electric strike operates in conjunction with Assa Classic bolt or bolt latch (sash) locks. STEP 25 operates with Assa Classic with fully thrown bolt that combines high security electric strike with strong Assa Classic bolt locks i.e. 8765, and 9788.

Function
• Pivoting staple in STEP 25 pushes / pivots open by fully thrown bolt at door opening.
• At door closure the fully thrown bolt will push / pivot staple back in locked position

Features
• Pivoting staple in hardened steel and housing in stainless steel
• Rated E/EI60 for use in fire protective doors in conjunction with hook bolt latch (sash) locks
• Operates in conjunction with Assa Classic bolt or bolt latch (sash) locks

Fail locked operation (ST670)
• Very high strength, resists 15 kN (1500 kg)
• Built-in monitoring micro switches
• Hook bolt engagement monitoring
• Pivoting staple deadlocking

Fail unlocked operation (ST671)
• Very high strength, resists 15 kN (1500 kg)
• Built-in monitoring micro switches
• Hook bolt engagement monitoring
• Pivoting staple deadlocking

Technical Specification

<table>
<thead>
<tr>
<th>Type</th>
<th>Operation</th>
<th>Voltage +/- 10 %</th>
<th>Current</th>
<th>(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST670-B</td>
<td>STEP 25 / 12 V Fail locked</td>
<td>12 VDC</td>
<td>340 mA</td>
<td></td>
</tr>
<tr>
<td>ST670-A</td>
<td>STEP 25 / 24 V Fail locked</td>
<td>24 VDC</td>
<td>170 mA</td>
<td></td>
</tr>
<tr>
<td>ST671-B</td>
<td>STEP 25 / 12 V Fail unlocked</td>
<td>12 VDC</td>
<td>340 mA</td>
<td></td>
</tr>
<tr>
<td>ST671-A</td>
<td>STEP 25 / 24 V Fail unlocked</td>
<td>24 VDC</td>
<td>170 mA</td>
<td></td>
</tr>
</tbody>
</table>

ST625  Faceplate 925  245 × 39 × 26
ST635  Faceplate 935  245 × 36
Pneumatic Electric Strikes

Assa 142.380

Application
Assa 142.380 offers pneumatic (compressed air) strike suitable for potential highly explosive areas within industry premises e.g. laboratory or storage rooms where gas, chemicals, paint etc. is situated.

Without electric components.

Function
- SOLID 142.380 pneumatic strikes provides fail locked operation
- Locked in case of pneumatic pressure loss

Features
- Pivoting staple and housing in steel
- Suitable in fire protective doors
- Operates in conjunction with single or double latch locks and suited medium security range faceplate (5xx)
- Fail locked operation (142.380)
- Applied compressed air, 2-8 bar operates strike
- High strength, resists 10 kN (1000 kg)
- Suited to fit medium security range faceplates (Assa 5xx)
- A variety of faceplates suited for SOLID Medium security electric strikes is provided
- Selection of faceplate origin in door and frame material and measurement as well as type of application

Technical specifications
- Pressure: 2-8 bar
- Installation: Vertical only
Electric Strikes for All-glass Door

Assa 914, 934, 5914, 5934

Application
Modern architecture demands more glass and less frame; even in the extreme case when an all-glass door is present Assa can offer a suitable solution. Assa All-glass electric strikes provides medium strength and durability; suitable for all-glass doors within office and trading premises.

Function
All-glass door leaf kept in between lamellas; pivots at operation. Assa All-glass electric strikes provides two main options:

- Fail locked operation (914, 5914)
  - Locked in case of power failure
- Fail unlocked operation (934, 5934)
  - Unlocked in case of power failure

Features
- Pivoting lamellas in nickel coated brass and housing in zinc alloy
- Supplied faceplate in stainless steel
- Do NEVER use Assa all-glass electric strikes in fire protective doors
- Operates in conjunction with hardened all-glass door leaf; glass thickness must be stated

Fail locked operation (914, 5914)

- Medium strength, resists 3.7 kN (370 kg)
- Optional monitoring micro switch
- Door leaf engagement monitoring (5914)

Fail unlocked operation (934, 5934)

- Medium strength, resists 3.7 kN (370 kg)
- Optional monitoring micro switch
- Door leaf engagement monitoring (5934)

Technical specifications
SOLID electric strikes rated DC only. A protective diode (e.g. 1N4004) should be connected as close to the coil as possible. This is necessary to protect superior system from transients (peaks).

- Current / Voltage (914, 934, 5914, 5934)
  110 mA @ 24 VDC ± 10 %
- Micro switches changeover NO/NC
  Rated 1 A @ 30 VDC
- Glass thickness 12mm; other thicknesses on request
Solenoid Handle Locks

Solenoid handle locks
Solenoid handle locks offers a combination of mechanical and electrical operation all in one unit. Distinguishing characteristics is speed, durability and convenience.

Secure, safe and convenient
Solenoid handle lock operates by supplying power to engage handle operation; optional is out- and inside handle with electric controlled operation or inside handle always operational (split-spindle operation) for higher convenience and safety. Optional to considerably raise security level, is a mechanically operated hook bolt. To enable distance surveillance are all operational states monitored.

Fire protection
Solenoid handle locks are suitable in fire protective doors.

Maintenance, Solenoid Handle Locks

Maintenance, Solenoid handle locks
Please follow enclosed documents at installation, do not diverge from these instructions prior to consulting Assa.

Maintenance
• Every six month, apply a small amount of designated grease to latches and bolts. Highly frequented doors may need maintenance with shorter intervals.
• Do NOT use spray lubricants; solvent may seriously harm electronics
• Electric parts need NO maintenance
• Assa solenoid handle locks provides built-in transient (peak) protection
• To maintain desired operation and security level of installed unit, it is of great importance to check and adjust the entire door environment:
  - Lock case and strike plate
  - Lock accessories (Lever handle, thumb turn etc.)
  - Hinges, framework and door threshold (sill)
  - Door closer

NB!
Warranty fails if product is:
• Wrong assembled
• Opened by unauthorised personnel (broken seal)
• Fitted with accessories or parts not supplied by Assa

If any uncertainty regarding installation, maintenance or warranty occurs, please contact Assa AB or your local supplier.
Multi Functional Solenoid Handle Locks in Evolution Design
Assa 880, 881, 884, 885, 886

Application
Assa Evolution solenoid handle locks are particularly suitable for use in high traffic applications where both reliability and security are major considerations. Suitable for security applications such as perimeter doors, entrance doors, gates and other applications within industry, office and trading premises as well as entrance doors and common areas within residential premises. Assa Evolution solenoid handle locks are suitable for installation in fire protective doors.

Function
Assa Evolution offers two main types of multifunctional solenoid handle locks.
- Basic (880, 881)
  - Exteriors and interior lever handle followers are electrically controlled.
  - Optional mechanical hook bolt (881)
- Split (884, 885, 886)
  - Exterior lever handle split followers is electrically controlled.
  - Interior lever handle split follower retracts latch at all times.
  - Optional mechanical hook bolt (885, 886)
  - Optional single hand action exit (886)

Features
- Dead latched when door is closed.
- Mechanical override by key or thumbturn.
- Multifunctional
  - 12-24 Volt multivoltage (DC continuously rated).
  - Fail locked / unlocked easy selected on site.
  - Electrically / mechanically controlled side easy selected on site (884, 885).
- 4 monitoring microswitches.
  - Anti thrust bolt (all).
  - Deadbolt thrown (881, 885).
  - Deadbolt withdrawn (881, 885).
  - Inside lever handle (884, 885).
- Additional deadbolt, operated by key or thumbturn (881, 885).
- 50 or 70mm backset option.
- Connectors assembled to all wires to adapt with accompanying connecting cable 81 71 21.

Technical specifications
- Current / Voltage 130mA @ 12VDC +/- 10%, 60mA @ 24VDC +/- 15%
- Microswitches Changeover NO/NC, rated 100mA @ 50VDC
- Current / Voltage 130mA @ 12VDC +/- 10%

Accessories
- Assa Scandinavian cylinders oval or round type
- Assa bolt through lever handles with built-in return spring
- All Assa Evolution security or standard strike plates
- Connecting cable 81 71 21 (supplied)
- Door loop EA280 / EA281

<table>
<thead>
<tr>
<th>Type</th>
<th>Dead latched</th>
<th>Mech. hook bolt</th>
<th>Split follower</th>
<th>Single hand action exit</th>
<th>Replaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assa Evolution 880</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>8030</td>
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<tr>
<td>Assa Evolution 881</td>
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<td>X</td>
<td></td>
<td></td>
<td>8025</td>
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<tr>
<td>Assa Evolution 884</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td>8098</td>
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<tr>
<td>Assa Evolution 885</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>8065</td>
</tr>
<tr>
<td>Assa Evolution 886</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>8020</td>
</tr>
</tbody>
</table>
Hook bolt adds security significantly as door and frame interconnects.

Grey, Lever handle at rest
Orange, Common, Lever handle
Brown, Lever handle movement

Green, Solenoid:

Blue, Door position, open
Yellow, Door position, closed
Black, Common, Door position

Red, Solenoid +12-24 VDC stab

Blue, Bolt thrown (dead locked)
White, Common, Bolt thrown
Red, Bolt not thrown

Green, Bolt withdrawn
White, Common, Bolt withdrawn
Red, Bolt not withdrawn
Motor Locks

Motor locks offer the best solution regarding high security applications in narrow profile- or modular doors.

High security
Motorised dead bolt brings high break-in resistance,
Encrypted communication from lock to designated control unit enables high security level.
The control unit act as interface to superior systems, monitors lock operational state, malfunction and tampering attempts.

Perimeter protection
Perimeter doors equipped with motor locks is an important piece in the puzzle creating high security level, when working hours are over, switching on burglary alarm can set all perimeter doors to lock instantly and secure the building over night, next day switching off burglary alarm, all doors will unlock automatically.

Fire protection
Motor locks are suitable in fire protective doors.

Maintenance for Motor Locks

Please follow enclosed documents at installation, do not diverge from these instructions prior to consulting Assa.

Maintenance
- Every six month, apply a small amount of designated grease to latches and bolts. Highly frequented doors may need maintenance with shorter intervals.
- Do NOT use spray lubricants; solvent may seriously harm electronics
- Electric parts need NO maintenance
- Assa motor locks provides built-in transient (peak) protection
- To maintain desired operation and security level of installed unit, it is of great importance to check and adjust the entire door environment:
  - Lock case and strike plate
  - Lock accessories (Lever handle, thumb turn etc.)
  - Hinges, framework and door threshold (sill)
  - Door closer

NB!
Warranty fails if product is:
- Wrong assembled
- Opened by unauthorised personnel (broken seal)
- Fitted with accessories or parts not supplied by Assa

If any uncertainty regarding installation, maintenance or warranty occurs, please contact Assa AB or your local supplier
**Fast Motor Lock with Hook Bolt**

Assa 810S, 811S-50 (70)

**Application**
Assa Evolution 810S / 811S-50(70) are motorized hook bolt locks. Motor locks are suitable in high security applications within industry, office and trading premises.

A hook bolt lock is well suited in all types of doors including double- and sliding doors. Assa Evolution 810S, motor lock with handle latch is rated E/EI60 for approved installation in fire protective doors.

Assa Evolution 811S, motor lock without handle latch suits applications where automatic door opener is present.

Within high traffic applications, a complementary daytime lock; electric strike, e.g. Solid universal or solenoid lock, e.g. Evolution 884 is recommended.

**Function**
The built-in motor operates the hook bolt.

Any type of superior system operates Assa motor lock e.g. access control, code lock, timer switch etc.

As interface between motor lock and the superior system, every Assa motor lock requires one control unit; DAC-30.

**Features**
- Superior speed brings minimum operating time, less than 1/3 sec.
- Cylinder or thumb turn provides mechanical override in case of power loss or other malfunction.
- Built-in DMS (door monitoring switch), may be replaced or complemented by external DMS.
- 50 or 70 °mm backset option.

DAC-30 is the control unit and interface towards superior system (e.g. access control or alarm system)

The control unit DAC-30:
- Provide encrypted communication to the motor lock.
- Require control signals from superior system to operate the motor lock
- Supply superior system with information about lock and door status
- Buzzer output, activated when faults occur.
- Connected to power supply
- Installed on secure side and within 50 m from the door.

**Technical specifications**
- Voltage 24VAC/DC +/- 15%
- Current
  - Idle 150mA
  - Max 400mA (0,1 sec)
- Relays Changeover NO/NC, rated 1A
- Connecting cable Assa EA215 6m, max. distance between control unit and motor lock 50m.
- Door gap Maximum gap between lock and strike, 6mm.

**Environment**
- Motor lock Temp -40°C - +70°C
- Control unit Temp +5°C - +40°C, 20-90% relative humidity, non-condensing
Hook bolt adds security significantly as door and frame interconnects. The most significant advantage with a hook bolt is that door and frame are interconnected.

Accessories
- Assa Scandinavian cylinders, oval or round type.
- Assa bolt through lever handles.
- Assa Evolution security strike plates.
- Door loop: EA281 / EA280.
Fast Motor Lock with Hook Bolt

Assa 811S-35

Application
Assa Evolution 811S-35 is a motorized hook bolt lock for narrow profile doors. Motor locks are suitable in high security applications within industry, office and trading premises.
A hook bolt lock is well suited in all types of doors including double- and sliding doors.
Assa Evolution 811S, suits applications where automatic door opener is present. Within high traffic applications, a complementary daytime lock e.g. Solid universal electric strike is recommended.

Function
The built-in motor operates the hook bolt.
Any type of superior system operates Assa motor lock e.g. access control, code lock, timer switch etc.
As interface between motor lock and the superior system, every Assa motor lock requires one control unit; DAC-30.

Features
- Superior speed brings minimum operating time, less than 1/3 sec.
- Cylinder or thumb turn provides mechanical override in case of power loss or other malfunction.
- Built-in DMS (door monitoring switch), may be replaced or complemented by external DMS
- 35mm backset

DAC-30 is the control unit and interface towards superior system (e.g. access control or alarm system)
The control unit DAC-30:
- Provide encrypted communication to the motor lock.
- Require control signals from superior system to operate the motor lock
- Supply superior system with information about lock and door status
- Buzzer output, activated when faults occur.
- Connected to power supply
- Installed on secure side and within 50 m from the door.

Technical specifications
- Voltage 24VAC/DC +/- 15%
- Current Idle 150mA
  Max 400mA (0,1 sec)
- Relays Changeover NO/NC, rated 1A
- Connecting cable Assa EA215 6m, max. distance between
control unit and motor lock 50 m.
- Door gap Maximum gap between lock and strike, 6mm.

Environment
Motor lock Temp -40ºC - +70ºC
Control unit Temp +5ºC - +40ºC, 20-90% relative humidity, non-condensating

- Assa Scandinavian oval type cylinders.
- Assa security cylinder accessories 4559E.
- Assa Evolution security strike plates.
- Door loop: EA281 / EA280.
Motor Lock Assa Evolution

Connecting cable EA215 to motor lock

Tamper +12VDC

Night / Day

24 VAC / DC +/-15%

Bolt throw

Bolt withdrawn

Door position

Unlocked

Buzzer output

Blocking input

ABP relay

Day time lock

External DMS

Open

Turning to green

Turning to yellow

Turning to white

Turning to red
Motor Lock in Modular Classic

Assa 8000S, 8001S

Application
Assa Classic 8000S / 8001S is a motorized lock.
Motor locks are suitable in high security applications within industry, office and trading premises.
A hook bolt lock is well suited in all types of doors including double- and sliding doors.
Assa Evolution 8000S, motor lock with handle latch is rated E/EI60 for approved installation in fire protective doors.
Assa Evolution 8001S, motor lock without handle latch suits applications where automatic door opener is present.
Within high traffic applications, a complementary daytime lock; electric strike, e.g. Solid universal or solenoid lock, e.g. Evolution 884 is recommended.

Function
The built-in motor operates the bolt.
Any type of superior system operates Assa motor lock e.g. access control, code lock, timer switch etc.
As interface between motor lock and the superior system, every Assa motor lock requires one control unit; DAC-30.

Features
• Operating time, approximately 1 second.
• Cylinder or thumb turn provides mechanical override in case of power loss or other malfunction.
• Built-in DMS (door monitoring switch), may be replaced or complemented by external DMS
• 50 or 70 mm backset option.

DAC-30 is the control unit and interface towards superior system (e.g. access control or alarm system)

The control unit DAC-30:
• Provide encrypted communication to the motor lock.
• Require control signals from superior system to operate the motor lock
• Supply superior system with information about lock and door status
• Buzzer output, activated when faults occur.
• Connected to power supply
• Installed on secure side and within 50 m from the door.

Technical specifications
• Voltage 24VAC/DC +/- 15%
• Current
  Idle 150mA
  Max 700mA (0.1 sec)
• Relays Changeover NO/NC, rated 1A
• Connecting cable Assa EA215 6m, max. distance between
• Door gap Maximum gap between lock and strike, 6mm.

Environment
Motor lock Temp - 40 °C – + 70 °C
Control unit Temp +5°C - +40°C, 20-90% relative humidity, non-condensating
Motor Lock Assa Classic

Accessories
- Assa Scandinavian cylinders, oval or round type.
- Assa thumb turn with built-in return spring
- Assa bolt through lever handles.
- Assa Classic security strike plates.
- Door loop: EA281 / EA280.
Motor Lock in Narrow Profile Classic

Assa 8087S

Application
Assa Classic 8087S is a motorized hook bolt lock for narrow profile doors. Motor locks are suitable in high security applications within industry, office and trading premises.

A hook bolt lock is well suited in all types of doors including double- and sliding doors. Assa Evolution 8087S, suits applications where automatic door opener is present. Within high traffic applications, a complementary daytime lock e.g. Universal electric strike is recommended.

Function
The built-in motor operates the hook bolt.
Any type of superior system operates Assa motor lock e.g. access control, code lock, timer switch etc.
As interface between motor lock and the superior system, every Assa motor lock requires one control unit; DAC-30.

Features
- Operating time, approximately 1 second.
- Cylinder or thumb turn provides mechanical override in case of power loss or other malfunction.
- Built-in DMS (door monitoring switch), may be replaced or complemented by external DMS
- 28mm backset

DAC-30 is the control unit and interface towards superior system (e.g. access control or alarm system)

The control unit DAC-30:
- Provide encrypted communication to the motor lock.
- Require control signals from superior system to operate the motor lock
- Supply superior system with information about lock and door status
- Buzzer output, activated when faults occur.
- Connected to power supply
- Installed on secure side and within 50 m from the door.

Technical specifications
- Voltage 24 VAC / DC +/- 15 %
- Current Idle 150mA,
  Max 1200mA (0,1 sec)
- Relays Changeover NO/NC, rated 1A
- Connecting cable Assa EA215 6 m,
  maximum distance between control unit and motor lock 50 m.
- Door gap Maximum gap between lock and strike, 6 mm

Environment
Motor lock Temp -40°C - +70°C
Control unit Temp +5°C - +40°C,
  20-90% relative humidity,
  non-condensating
**Accessories**

- Assa Scandinavian oval type cylinders.
- Assa security cylinder accessories 84559.
- Assa Classic security strike plate 1887-8.
- Door loop: EA281 / EA280.
- Replacement faceplate covers motor
Electric Locks in Emergency Exits

Electric locks in emergency exit
In exits where authority demands for safe emergency exit, stands against user desire for secure locking as well as easy and convenient access for authorised personnel an emergency exit lock with built-in electrical operation may be the perfect solution. Emergency exit operation approved accordingly applicable European standards.

Authorised or emergency operation
Electrical operation for daily convenient access by authorised personnel. In case of emergency, anyone can operate the exit; emergency operation triggers an alarm signal. Re-entry operation is optional, set at installation.

Maintenance, Electric Locks in Emergency Exits

Maintenance, emergency exit device
Monthly
Inspect and operate the exit device to ensure that all components are in satisfactory working condition. Ensure that all parts are well fastened and free from obstruction.

Every six month
Apply a small amount of designated grease to latches and bolts. Highly frequented doors may need maintenance with shorter intervals.

Maintenance, electric locks
Please follow enclosed documents at installation, do not diverge from these instructions prior to consulting Assa.

Every six month
• Apply a small amount of designated grease to latches and bolts. Highly frequented doors may need maintenance with shorter intervals.
• Do NOT use spray lubricants; solvent may seriously harm electronics
• Electric parts need NO maintenance
• To maintain desired operation and security level of installed unit, it is of great importance to check and adjust the entire door environment:
  • Lock case and strike plate
  • Lock accessories (Lever handle, thumb turn etc.)
  • Hinges, framework and door threshold (sill)
  • Door closer

NB!
Warranty fails if product is:
• Wrong assembled
• Opened by unauthorised personnel (broken seal)
• Fitted with accessories or parts not supplied by Assa

If any uncertainty regarding installation, maintenance or warranty occurs, please contact Assa AB or your local supplier.
Assa Emergency Exit Terminal

Emergency Exit Terminal 1340-20

Application
Assa 1340-20; compact design emergency exit control terminal, combines monitoring and operation.

Function
Assa 1340-20 offers maximum flexibility in operating and monitoring one emergency exit door. When pushed, red panic button triggers an acoustic alarm to set off and door opens.

Features
- Control terminal with internal electronics operates one door with one or two electric locks
- Siren included; triggered to set off in case of emergency use
- Illuminated emergency button
- Valid access offered via access control system or key
- Can be linked to fire- or emergency alarm
- Demands fail unlocked (escape safe) electric locks e.g. Solid 8331 high security electric strike or Assa M82SCM magnalock
- Monitored “door closed” and “locked” status mandatory
- Accordingly CFPA European Guideline 2:2002

Technical specifications
- Voltage: 24 VDC ± 15 % stabilized
- Ripple, max: 1 V t-t
- Current (total): 1.0 A
- Terminal internally: 170 mA
- External users (lock): 830 mA
- Colour: Green RAL 6032
- Dimensions (b x h x d): Approx. 92.5 x 250 x 98 mm
- Emergency button: Illuminated
- Acoustic signal: 107 dB/1m
- Euro profile cylinder: Cam locking position 90 ° left (e.g. Assa 5823B01)
- Insulation protection: IP20
- Operational temperature: 0° – 40 °C
- Installation: Vertical only
**Miscellaneous Electric Locks**

**Magnalocks**
Magnalocks operates without mechanic parts, which eventually wear out and cause malfunction.
High magnetic force keeps door secure locked and still safe in case of emergency.

An important link in case of emergency.
Linked up with fire- or emergency alarm and with complementary emergency exit terminals, magnalocks is the perfect solution in emergency exit doors.

**Electric cabinet locks**
Electric locks in compact design suited to fit the limited space held in a cabinet or a cupboard.
Areas of use e.g. jeweller- or watch store showcases; post boxes and medicine cabinets.
Magnalocks

Assa M34SCM, M62SCM, DM62SCM, M82SCM

Application
Assa magnalocks are well suited in emergency exits within industry, hospital and trading premises as well as crowded public areas such as exhibition halls, sport arenas. Assa magnalocks also provide a solution in high traffic applications due to non-existent mechanical wear; as well as in aggressive environment applications, i.e. high pressure cleaning room, due to waterproof and corrosion resistance. Assa magnalocks may also provide solution in doors virtually impossible to secure with other solutions; i.e. glazed balcony doors and gates.

Function
Assa magnalock installation; in the overhead frame and anchor in the top part of the door on the frame side. Assa magnalock DM62SCM is a double M62SCM provided with two anchors designated to double doors.

Features
Assa magnalocks have no restraining mechanical parts. Due to high electro magnetic force Assa magnalock keep doors secured and still escape safe operation when linked to fire- or emergency alarm system or exit buttons. Assa magnalocks are tamper proof to spray paint, aluminium foil and surface dents. Secured status, with full electro magnetic force, monitored. Housing in stainless steel, anchor in corrosion proof plating and waterproof accordingly insulation protection IP67, all in all Assa magnalocks provides operation in extreme rough environments. Operational temperature: – 40 °C - + 60 °C.

Accessories
Several types of brackets to adapt fitting, e.g. Z-bracket adapt fitting to inswing doors.
<table>
<thead>
<tr>
<th>Type</th>
<th>Door type</th>
<th>Force</th>
<th>Voltage (VDC) -10% +30%</th>
<th>Current (mA)</th>
<th>Measurements (L × H × B mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M34SCM</td>
<td>Outswing</td>
<td>273</td>
<td>12-24</td>
<td>12 VDC: 350</td>
<td>Magnalock: 241×38×28,5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24 VDC: 175</td>
<td>Anchor: 162×35,5×11</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M34SCFM</td>
<td>Inswing</td>
<td>273</td>
<td>12-24</td>
<td>12 VDC: 350</td>
<td>Magnalock: 241×38×28,5</td>
</tr>
<tr>
<td></td>
<td>Z-bracket mandatory</td>
<td></td>
<td></td>
<td>24 VDC: 175</td>
<td>Anchor: 162×35,5×11</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M62SCM</td>
<td>Outswing</td>
<td>545</td>
<td>12-24</td>
<td>12 VDC: 350</td>
<td>Magnalock: 203×76×44,5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24 VDC: 175</td>
<td>Anchor: 152×70×12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M62CSFM</td>
<td>Inswing</td>
<td>545</td>
<td>12-24</td>
<td>12 VDC: 350</td>
<td>Magnalock: 203×76×44,5</td>
</tr>
<tr>
<td></td>
<td>Z-bracket mandatory</td>
<td></td>
<td></td>
<td>24 VDC: 175</td>
<td>Anchor: 152×70×12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DM62SCM</td>
<td>Outswing</td>
<td>545</td>
<td>12-24</td>
<td>12 VDC: 700</td>
<td>Magnalock: 559×76×44,5</td>
</tr>
<tr>
<td></td>
<td>double door</td>
<td></td>
<td></td>
<td>24 VDC: 350 (175×2)</td>
<td>Anchor: 152×70×12 (2 pc)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M82SCM</td>
<td>Outswing</td>
<td>818</td>
<td>12-24</td>
<td>12 VDC: 350</td>
<td>Magnalock: 305×76×44,5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24 VDC: 175</td>
<td>Anchor: 254×70×12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M8SCFM</td>
<td>Inswing</td>
<td>818</td>
<td>12-24</td>
<td>12 VDC: 350</td>
<td>Magnalock: 305×76×44,5</td>
</tr>
<tr>
<td></td>
<td>Z-bracket mandatory</td>
<td></td>
<td></td>
<td>24 VDC: 175</td>
<td>Anchor: 254×70×12</td>
</tr>
</tbody>
</table>
Magnalocks

Assa SAM SCM, SAM 2

Application
Assa SAM magnalock provides recessed installation in swing or slide doors. Assa SAM magnalocks are well suited in emergency exits. Assa magnalocks also provide a solution in aggressive environment applications, i.e. high pressure cleaning room, due to waterproof and corrosion resistance.

Function
Assa SAM magnalock provides shear-aligning operation therefore does not operate as a standard magnalock. Assa SAM magnalock with provided anchor demands recessed installation in door and frame.
NB! To obtain provided operation it is critical that gap between anchor and magnet does not exceed 2mm.

Features
Assa SAM magnalock have no restraining mechanical parts. Due to high electro magnetic force Assa SAM magnalock keep doors secured and still escape safe operation when linked to fire- or emergency alarm system or exit buttons. Assa SAM magnalocks are tamper proof to spray paint, aluminium foil and surface dents.
Secured status, with full electro magnetic force, monitored (Assa SAM 2 only). Housing in stainless steel, anchor in corrosion proof plating and waterproof accordingly insulation protection IP67, all in all Assa SAM magnalocks provides operation in extreme rough environments.
Operational temperature: – 40 °C - + 60 °C
## Electromechanical Locks

<table>
<thead>
<tr>
<th>Type</th>
<th>Door type</th>
<th>Force</th>
<th>Voltage -10% +30%</th>
<th>Current (mA)</th>
<th>Measurements: (L × H × W mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAM SCM</td>
<td>Swing or slide door</td>
<td>455</td>
<td>12-24</td>
<td>12 VDC: 350</td>
<td>Magnalock: 241.3×38.1×28.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24 VDC: 175</td>
<td>Anchor: 244.5×36.5×28.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAM 2</td>
<td>Swing or slide door</td>
<td>280</td>
<td>12-24</td>
<td>12 VDC: 350</td>
<td>Magnalock: 182.9×29.2×23.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24 VDC: 175</td>
<td>Anchor: 182.9×29.2×25.4</td>
</tr>
</tbody>
</table>
Electromechanical Locks

Accessories Assa Magnalocks

Assa Z-34SSM, Z-62SSM, Z-82SSM

Z-bracket
To adapt magnalock installation to inswing doors. Dresscover in polished stainless steel covering bracket and magnet included. Z-bracket designated to SCFM type magnalocks only

<table>
<thead>
<tr>
<th>Bracket type</th>
<th>Magnalock type</th>
<th>Measurements a x b x c (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-34SSM</td>
<td>M34SCFM</td>
<td>121×59×45</td>
</tr>
<tr>
<td>Z-62SSM</td>
<td>M62SCFM</td>
<td>161×74×63</td>
</tr>
<tr>
<td>Z-82SSM</td>
<td>M82SCFM</td>
<td>161×74×63</td>
</tr>
</tbody>
</table>

Assa SHB-34SSM, SHB-62SSM, HEB-82CLM

L-bracket
To adapt magnalock installation when overhead frame is flush with door. Dresscover in polished stainless steel included in SHB-34SSM and SHB-62SSM.

<table>
<thead>
<tr>
<th>Bracket type</th>
<th>Magnalock type</th>
<th>Measurements a x b x c (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHB-34SSM</td>
<td>M34SCM</td>
<td>60×45×250</td>
</tr>
<tr>
<td>SHB-62SSM</td>
<td>M62SCM</td>
<td>60×63×205</td>
</tr>
<tr>
<td>HEB-82CLM</td>
<td>M82SCM</td>
<td>51×51×305</td>
</tr>
</tbody>
</table>
Accessories Assa Magnalocks

Assa UHB-CLM, UHB-82CLM

Universal header bracket
To extend a narrow overhead frame.
Produced in square section steel tube 26Å–39 mm,
to extend either 26mm or 39mm.

<table>
<thead>
<tr>
<th>Bracket type</th>
<th>Magnalock type</th>
<th>Measurements h × b × l (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UHB-CLM</td>
<td>M34SCM, M62SCM</td>
<td>26 × 39 × 241</td>
</tr>
<tr>
<td>UHB-82CLM</td>
<td>M82SCM</td>
<td>26 × 39 × 342</td>
</tr>
</tbody>
</table>

Assa CWB-62CLM, CWB-82CLM

Universal header bracket
To extend a narrow overhead frame.
Produced in square section steel tube 26Å–39 mm, to extend
either 26mm or 39mm.

<table>
<thead>
<tr>
<th>Bracket type</th>
<th>Magnalock type</th>
<th>Measurements h × b × l (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWB-62CLM</td>
<td>M62SCM</td>
<td>44×12×203</td>
</tr>
<tr>
<td>CWB-82CLM</td>
<td>M82SCM</td>
<td>64×12×304</td>
</tr>
</tbody>
</table>

Assa DC-34SPM, DC-62SPM, DC-82SPM, DDC-62CLM

Dresscover
To improve appearance by covering magnet, anchor and fastening screw
heads.
DDC-62CLM covers 2 pcs magnalock M62SCM installed less than 50mm
apart.

<table>
<thead>
<tr>
<th>Dress cover type</th>
<th>Magnalock type</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-34SPM</td>
<td>M34SCM</td>
<td>Polished stainless steel</td>
</tr>
<tr>
<td>DC-62SPM</td>
<td>M62SCM</td>
<td>Polished stainless steel</td>
</tr>
<tr>
<td>DC-82SPM</td>
<td>M82SCM</td>
<td>Polished stainless steel</td>
</tr>
<tr>
<td>DDC-62CLM</td>
<td>2 × M62SCM</td>
<td>Aluminium, clear anodised</td>
</tr>
</tbody>
</table>
Electric Cabinet Locks

SOLID 1048, 1048BS, 1049, 1049BS

Application
SOLID cabinet lock in compact design suited to fit the limited space held in a cabinet or a cupboard. Areas of use e.g. jeweller- or watch store showcases; post boxes, medicine and archive cabinets.

Function
SOLID cabinet lock provides two main options
- Standard operation (1049, 1049BS)
  - Fail locked / unlocked operation easy selectable on site
- Impulse fail locked operation (1048, 1048BS)
  - Provides impulse “snap-open” operation
  - Locked in case of power failure

Features
- Standard operation (1049, 1049BS)
  - Strength 1 kN (100 kg)
  - Optional monitoring micro switch
  - Bolt engagement monitoring (1049BS)
  - Impulse fail locked operation (1048, 1048BS)
  - Strength 1 kN (100 Kg)
  - “Snap-open” feature, pushes door open, no need for knob or handle
  - Optional monitoring micro switch
  - Bolt engagement monitoring (1048BS)

Technical specifications
Standard operation (1049, 1049BS)
SOLID standard operation cabinet locks rated DC only. A protective diode (e.g. 1N4004) should be connected as close to the coil as possible. This is necessary to protect superior system from transients (peaks)

- Current / Voltage (1049, 1049BS)
  280 mA @ 12 VDC ± 10 %
  140 mA @ 24 VDC ± 10 %
- Micro switches changeover NO/NC (1049BS)
  Rated 1 A @ 25 VDC
- Dimensions: 48 x 42 x 20 mm
- Temperature range: +10 °C – +40 °C

Impulse operation (1048, 1048BS)
SOLID impulse operation cabinet locks rated AC/DC. In DC operation a protective diode (e.g. 1N4004) should be connected as close to the coil as possible. This is necessary to protect superior system from transients (peaks).

- Current / Voltage (1048, 1048BS)
  900 mA @ 12 VDC ± 10 %
  500 mA @ 12 VAC ± 10 %
  450 mA @ 24 VDC ± 10 %
  230 mA @ 24 VDC ± 10 %
- Micro switches changeover NO/NC (1048BS)
  Rated 1 A @ 25 VDC
- Dimensions: 48 x 42 x 20 mm
- Temperature range: –20 °C – +60 °C
Electric Cabinet Locks

STEP 35

Application
STEP 35 cabinet lock in compact design suited to fit the limited space held in a cabinet or a cupboard. Areas of use e.g. jeweller- or watch store showcases; post boxes, medicine and archive cabinets.

Function
STEP 35 cabinet lock provides two main options
• Fail locked operation (ST202B, ST203E)
• Locked in case of power failure
• Fail unlocked operation (ST202D, ST203F)
• Unlocked in case of power failure

Features
• Strength 5 kN (500 Kg)
• Bolt engagement monitoring micro switch

Technical specifications
Standard operation (1049, 1049BS)
STEP 35 cabinet locks rated DC only. A protective diode (e.g. 1N4004) should be connected as close to the coil as possible. This is necessary to protect superior system from transients (peaks)

• Current / Voltage (1049, 1049BS) 63 mA @ 24 VDC ± 10 %
• Wrap around faceplate (ST203E, ST203F) - Dimensions: 140 x 32 x 17 mm
• Wrap around faceplate (ST203E, ST203F) - Dimensions: 140 x 32 mm
• Bolt - Dimensions: Ø 8mm; length 7mm
• Micro switches changeover NO/NC (1049BS) - Rated 1 A @ 25 VDC
Accessories

The most accessories mentioned in the section Electromechanical locks are specially designed for electromechanical locks and their applications.

Measurements and drawings are available for all accessories. If measurements are not given, they are available on another page. See reference.

Pages with specific accessories include reference for applications.

Where electric data needs to be considered, there is a specification available with this information.

Connecting Accessories

SOLID 5560KB

Application
SOLID 5560KB interconnecting accessory significantly improves strength (up to 10 times) and at the same time decreases possibility to widen door gap at burglary attempt.
Accessory consists of exchange interconnecting faceplate and corresponding strike plate.
SOLID 5560KB provided to Assa classic modular lock cases according to schedule below.

<table>
<thead>
<tr>
<th>Type</th>
<th>Assa modular lock case</th>
<th>Sym</th>
<th>Asym</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLID 5560KB / 5585 sym</td>
<td>5584, 5585, 6585, 5761, 8561</td>
<td>×</td>
<td></td>
</tr>
<tr>
<td>SOLID 5560KB / 560 sym</td>
<td>560, 562, 1560</td>
<td>×</td>
<td></td>
</tr>
<tr>
<td>SOLID 5560KB / 2000 sym</td>
<td>565, 2000, 8765</td>
<td>×</td>
<td></td>
</tr>
<tr>
<td>SOLID 5560KB / 9788 sym</td>
<td>9788</td>
<td>×</td>
<td></td>
</tr>
<tr>
<td>SOLID 5560KB / 5585 osym</td>
<td>5584, 5585, 6585, 5761, 8561</td>
<td>×</td>
<td></td>
</tr>
<tr>
<td>SOLID 5560KB / 560 osym</td>
<td>560, 562, 1560</td>
<td>×</td>
<td></td>
</tr>
<tr>
<td>SOLID 5560KB / 2000 osym</td>
<td>565, 2000, 8765</td>
<td>×</td>
<td></td>
</tr>
</tbody>
</table>

SOLID Brackets, Striking Plate, Blind Faceplates

SOLID 507/17, 507/22, 507/26, 510/511

Brackets
SOLID brackets adapt fitting when wood frame is weak or splintered.
Brackets provided for faceplate 507, 510 and 511.
Faceplate 510 and 511 uses same bracket.
Brackets for faceplate 507 brings several lip widths, see schedule below.

<table>
<thead>
<tr>
<th>Type</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Wrap around (mm)</th>
<th>Lip width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLID 507 / 17</td>
<td>400</td>
<td>45</td>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>SOLID 507 / 22</td>
<td>400</td>
<td>50</td>
<td>20</td>
<td>22</td>
</tr>
<tr>
<td>SOLID 507 / 26</td>
<td>400</td>
<td>55</td>
<td>20</td>
<td>26</td>
</tr>
<tr>
<td>SOLID 510 / 511</td>
<td>300</td>
<td>43</td>
<td>20</td>
<td>14</td>
</tr>
</tbody>
</table>
**SOLID Striking Plates**

*Striking plates*

SOLID strike plates tailor-made to fit electric strike preparation, makes mechanical lock use possible when supposed electric strike installation is later and.

SOLID strike plates have the same measurements and name as the corresponding faceplate.

High security electric strikes:

824

Standard security electric strikes:

725, 730, 731/17, 731/20, 731/26, 732, 733/17, 733/20, 733/26, 735, 737

Medium security electric strikes:

507, 510, 511, 512, 520, 521

**SOLID Blind Faceplates**

*Blind faceplates*

SOLID blind faceplates tailor-made to fit electric strike preparation; used when supposed electric strike and lock installation is later.

SOLID blind faceplates have the same measurements and name as the corresponding faceplate.

High security electric strikes:

824

Medium security electric strikes:

507, 510, 520, 521

**SOLID KBS**

*Application*

SOLID KBS plastic dome covers thumb turn or cylinder to prevent illicit use.

Provided in two heights:

- Length: 120 mm
- Width: 70 mm
- Height: 35 mm or 55 mm

**Assa 8087 Replacement Faceplate**

*Application*

Assa 8087 replacement faceplate covers lock case and motor unit; adapts Assa motor lock 8087S to wooden door installation.

- Length: 338 mm
- Width: 32 mm
Cable Loop

ABLOY EA280, EA281

Application
ABLOY EA280 / EA281 recessed cable loop to transfer cables from frame to door, suitable for swing doors only.

Features
Install EA281 if opening angle exceeds 120° or if coil spring parallel dislocation exceeds 40mm.
Cable diameter max Ø 7.4mm; flexible cable maintains performance.

Function
Cable loop installation; housing preparation in the upper part on the hinge side of the door, coil spring flange in corresponding height on the frame, cable must be pulled through before fastening.
Preparation must be wide enough to allow cable to flex under housing and coil spring flange.

NB!
One cable in each door loop only.

SOLID 83

Application
Cable loop in nickel-plated brass with white plastic fixings to transfer cables from frame to door; suitable for swing and slide doors.
Supplied with plastic bushings to avoid abrasion.
Cable diameter max Ø 6mm; flexible cable maintains performance.

Function
Cable loop installation; in the upper part on the hinge side of the door and frame; before fastening cable must be pulled through.

NB! One cable in each door loop only.

Technical specifications
SOLID 83 Length: 400mm
SOLID 83/600 Length: 600mm
SOLID 83 is also available by the meter and plastic fixings and bushings each.

NB! One cable in each door loop only.
Door Contact

**SOLID 88**

**Application**
SOLID 88 transfer power and electrical signals from frame to door.

**Features**
4-pole power transfer in grey plastic with sprung balls.

**NB! NOT recommended for motor lock applications.**

**Technical specifications**
- Distance: Max 5mm gap between door and frame
- Current / Voltage: 500mA @ 24VAC/VDC

Connecting Cables

**ABLOY EA225**  
**Assa 817121, 817122**

Assa and ABLOY flexible cables provided with attached connectors to transfer signals and power from lock to superior systems.

Every electro mechanical lock demands a designated cable, see schedule below.
Assa and ABLOY cables is designed to resist the stressful environment that a door with e.g. big differences in temperature represents.

<table>
<thead>
<tr>
<th>Connecting cables to Assa motor-, solenoid handle- and micro switch locks</th>
<th>Cable type</th>
<th>Length</th>
<th>Designated to</th>
<th>Replaces</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EA225</td>
<td>10 m</td>
<td>All Assa motor locks</td>
<td>8855, EA215</td>
</tr>
<tr>
<td></td>
<td>81 71 21</td>
<td>10 m</td>
<td>All Assa solenoid handle locks.</td>
<td>EA210, EA220, EA206</td>
</tr>
<tr>
<td></td>
<td>81 71 22</td>
<td>10 m</td>
<td>All Evolution mechanical locks with built-in micro switch</td>
<td></td>
</tr>
</tbody>
</table>
Bolt Contacts

SOLID 82, 876, 877, 878

Application
Bolt monitoring switches to monitor latch or bolt throw.
Various uses e.g. fire protective and emergency exit doors; free / occupied
monitoring in lavatories.

Features
SOLID 82                  Dead bolts
Designated fixing, attached to security
strike reinforcement box
SOLID 876                Dead- or latch bolts; throw 16-20mm
Designated fixing, backside of strike plate
SOLID 877                Dead- or latch bolts; throw 12-15mm
Designated fixing, backside of strike plate
SOLID 878                Dead bolts; throw 5mm - infinity
Designated fixing, backside of strike plate

Technical specifications
Micro switches            Changeover NO/NC, rated 1A @ 24VAC/VDC, max 24W
Waterproof               SOLID 878: Insulation protection, IP54

Measurements

<table>
<thead>
<tr>
<th>Type</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Misc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLID 82</td>
<td>68 mm</td>
<td>18 mm</td>
<td>34 mm</td>
<td>-</td>
</tr>
<tr>
<td>SOLID 876</td>
<td>68 mm</td>
<td>15 mm</td>
<td>30 mm</td>
<td>-</td>
</tr>
<tr>
<td>SOLID 877</td>
<td>55 mm</td>
<td>11 mm</td>
<td>43 mm</td>
<td>Cable 4 m</td>
</tr>
</tbody>
</table>
Magnet Contact

**SOLID 41, 42, 43**

**Application**
Magnet contact to monitor door position attaches to door and frame.

**Features**
SOLID 41 surface-mount magnetic contact
SOLID 42 biased high security recessed magnetic contact
SOLID 41 recessed magnetic contact

**Technical specifications**
Loop type | NO
Current / Voltage | Rated 500mA @ 48VAC/VDC, max 7.5W

**Measurements**

<table>
<thead>
<tr>
<th>Type</th>
<th>Measurements</th>
<th>Drill size</th>
<th>Gap</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLID 41</td>
<td>L 64 × W 16 × H 13 mm</td>
<td>19 mm</td>
<td>Screw terminal</td>
<td></td>
</tr>
<tr>
<td>SOLID 42</td>
<td>L 40 × Flange Ø 25 mm</td>
<td>10 mm</td>
<td>2 m cable with tamper loop</td>
<td></td>
</tr>
<tr>
<td>SOLID 43</td>
<td>L 40 × Flange Ø 25 mm</td>
<td>22 mm</td>
<td>2 m cable with tamper loop</td>
<td></td>
</tr>
</tbody>
</table>
Heating Tape

Application
Self-adhesive heating tape to tack on electric strikes, solenoid handle locks or motor locks to maintain provided operation in extreme environments

Technical specifications
Voltage 12/24 VAC/VDC, 2.5 W
Measurements 30 x 90 mm, 200 mm connecting wires

Thermostat

Application
Bimetallic thermostat to regulate heating tape above

Technical specifications
Voltage 12/24 VAC/VDC
Measurements 6 x 6 x 20 mm

Protective Diode

Application
Protective diode provided to protect superior system from transients (peaks); transients may occur in electric strikes. A protective diode should be connected as close to the coil as possible.

Technical specifications
Type 1N4004