# ELECTRONIC LOCKING SYSTEM

<table>
<thead>
<tr>
<th>GROUP CODE</th>
<th>PRODUCT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>3402</td>
<td>ACCESS CONTROL UNIT (ACU)</td>
</tr>
<tr>
<td>3403</td>
<td>ACCESS CONTROL UNIT (ACU PLUS)</td>
</tr>
<tr>
<td>3416</td>
<td>STANDALONE ACCESS INTERFACE (S-AIK) - KEYPAD</td>
</tr>
<tr>
<td>3417</td>
<td>STANDALONE ACCESS INTERFACE (S-AIP) - PROXIMITY</td>
</tr>
<tr>
<td>3414</td>
<td>ACCESS INTERFACE (AIK) - KEYPAD</td>
</tr>
<tr>
<td>3415</td>
<td>ACCESS INTERFACE (AIP) - PROXIMITY</td>
</tr>
</tbody>
</table>

## ACCESSORIES

<table>
<thead>
<tr>
<th>GROUP CODE</th>
<th>PRODUCT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>340.0.26XX</td>
<td>ANALOG SENSORS</td>
</tr>
<tr>
<td>3101</td>
<td>ELECTRONIC SWINGHANDLE</td>
</tr>
<tr>
<td>3102</td>
<td>ELECTRONIC SWINGHANDLE</td>
</tr>
<tr>
<td>3103</td>
<td>ELECTRONIC SWINGHANDLE</td>
</tr>
<tr>
<td>3104</td>
<td>ELECTRONIC SWINGHANDLE</td>
</tr>
<tr>
<td>3111</td>
<td>ELECTRONIC SWINGHANDLE</td>
</tr>
<tr>
<td>3112</td>
<td>ELECTRONIC SWINGHANDLE</td>
</tr>
<tr>
<td>3105</td>
<td>ELECTRONIC SWINGHANDLE</td>
</tr>
<tr>
<td>3106</td>
<td>ELECTRONIC SWINGHANDLE</td>
</tr>
<tr>
<td>3341</td>
<td>ELECTRONIC KEEPER</td>
</tr>
<tr>
<td>3311</td>
<td>SOLENOID LOCK</td>
</tr>
<tr>
<td>3204</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3205</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3211</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3212</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3213</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3214</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3202</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3203</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3201</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
<tr>
<td>3301</td>
<td>ELECTRONIC CABINET LOCK</td>
</tr>
</tbody>
</table>
The security of IT cabinets in server rooms and data centres is becoming more important worldwide. The reason is that a typical IT infrastructure supports the entire organization and stores the know how of the company.

We have developed an integrated access control system called ELS.

This new system enables you to monitor and control your IT environment in a very efficient way. Sensors detect door access, variations in temperature, security and other variables to give you immediate notification and greater control over your network, all at a great value. Cabinet doors can be opened by RFID cards, a key pad or remote control units.

This solution manages who can open which cabinet doors and when and allows you to get a detailed report for each cabinet.

**Basic features**
- Provides environmental monitoring, access control and a management system
- Prevents unauthorized access
- Allows doors to be opened using a proximity card, keypad or via a web interface
- Accommodates sensors to monitor temperature, humidity, smoke, the presence of water or liquids, etc.
- Automatically generates an audio alert
- Records all the security information you need every time the door to a server cabinet is opened – whom, where, when

**Applications**
- Server cabinets
- Data centres
- Electric panels
- Telecommunications
- Kiosks
- GSM Cabinets
ELECTRONIC LOCKING SYSTEM

SYSTEM OVERVIEW

- IP monitoring of environmental conditions in the rack cabinet
- Control of physical access to the rack cabinet
- User interface via proximity card reader or keypad
- Electronic lock access authorisation

Monitoring and Access Control Units

Standalone Access Interfaces

Electronic Swinghandles

Other Electromechanical Locks

ACU : Access Control Unit
ACU Plus : Access Control Unit
AIK : Access Interface Keypad
AIP : Access Interface Proximity

S-AIK : Access Interface Keypad
S-AIP : Access Interface Proximity

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ELECTRONIC LOCKING SYSTEM

ACU ACCESS CONTROL UNIT

The ACU is an intelligent device for controlling electronic locks and monitoring door status.

- Control of physical access to the rack cabinet
- Monitors and manages security conditions over IP
- User database
- Management software for monitoring and configuring the unit
- A sensor for detecting the state of the door (open/closed) can be connected
- Up to two Alarms (3414 and 3415) can be connected to ACU.

MANAGEMENT SOFTWARE

- Configure network settings (IP address, subnet mask, default gateway, DNS, etc.) and user/administrative settings
- Add and remove users
- View and delete the logs

APPLICATIONS

Suitable for data centres, co-location centres, web hosting facilities, telecom racks or any unmanned area/site that needs to be monitored.

Dry Contact Inputs
- Dry contact inputs to monitor changes in the environment
- Inputs can be used as sensor input for detecting the state of the door (open/closed)

Access Interfaces
- 2 x access interface inputs allow access by entering a code number or presenting a proximity card.
- Possible to connect 3414 - AIK and 3415 - AIP devices.

Lock Outputs
- 2 x lock outputs to control physical access to the cabinet
- Possible to connect wide range of locks.

MANAGEMENT SOFTWARE

- User friendly interface
- Support SMS and email notifications
- Monitor all door and handle status in one screen
- Control all connected swinghandle from remote
- MS SQL database
- Easy configuration with ELS Configuration Software

All rights reserved © 2017
• Up to 18 access interfaces can be connected to access control unit.
• Up to 32 swinghandle can be controlled by one access control unit.
• Two access interfaces are reserved for use of different type of locks (Node 8).
The ACU Plus is an intelligent device for monitoring environmental variations, such as temperature, humidity, smoke, presence of water or liquids, etc. and controlling electronic locks and monitoring door status.

- Control of physical access to the rack cabinet
- Monitors and manages environmental and security conditions over IP
- Alerts are sent using email when any monitored environmental condition exceeds a user-specified range
- User database
- Management software for monitoring and configuring the unit
- A sensor for detecting the state of the door (open/closed) can be connected
- Up to 18 AIs (3414 and 3415) can be connected to ACU Plus.

**Management Software**
- Configure sensor thresholds, set automatic operation and alarm rules
- Monitor current sensor values and alarm status
- Configure network settings (IP address, subnet mask, default gateway, DNS, etc.) and user-administrative settings
- Add and remove users
- View and delete the logs

**Applications**
Suitable for data centres, co-location centres, web hosting facilities, telecom racks or any unmanned area/site that needs to be monitored.

**Dry Contact Output**
- Dry contact outputs to control, switch on/off external low power devices.
- Output can be used as a NO (Normally Open) or NC (Normally Closed).

**Dry Contact Inputs**
- Dry contact inputs to monitor changes in the environment.
- Inputs can be used as sensor input for detecting the state of the door (open/closed)

**Analog Sensors**
- 2 x analog sensors outputs to monitor environmental conditions.
- All types of Essentra analog sensors can be connected.

**Access Interfaces**
- 2 x access interface inputs allow access by entering a code number or presenting a proximity card.
- Possible to connect 3414 - AIK and 3415 - AIP devices.

**Lock Outputs**
- 2 x lock outputs to control physical access to the cabinet.
- Possible to connect wide range of locks.
Access interfaces are user-interface devices that allow access by entering a code number or presenting a proximity card.

Beep tones and LEDs on the AI device inform the user about the acceptance or rejection of an operation.

**STATUS INDICATORS**

<table>
<thead>
<tr>
<th>Signal 1</th>
<th>Ready</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal 2</td>
<td>Error</td>
</tr>
<tr>
<td>Signal 3</td>
<td>Ok</td>
</tr>
<tr>
<td>Signal 3</td>
<td>Menu</td>
</tr>
</tbody>
</table>

**RFID card:** 13.56Mhz MIFARE - Standard ISO14443A

**RFID card:** 13.56Mhz MIFARE - Standard ISO14443A

---

**S-AIK STANDALONE ACCESS INTERFACE KEYPAD**

- Two level password (Master and User)
- Two lock outputs to control physical access to the cabinet
- Possible to connect wide range of locks including electronic swinghandles
- 12 Volt DC supply voltage
- Material: ABS Cover and Zinc Only5 Body
- It can control the locks separately
- Beep tones and LEDs on the AI device inform the user about the acceptance or rejection of an operation.

**S-AIP STANDALONE ACCESS INTERFACE PROXIMITY**

- 2 levels Card (RFID tag) management system (Master and User)
- Standard ISO-14443A RFID
- Two lock outputs to control physical access to the cabinet
- Possible to connect wide range of locks including electronic swinghandles
- 12 Volt DC supply voltage
- Material: ABS Cover and Zinc Only5 Body
- It can control the locks separately
- Beep tones and LEDs on the AI device inform the user about the acceptance or rejection of an operation.

Order separately
Printed: (34002639)
Unprinted: (34002640)
**ELECTRONIC LOCKING SYSTEM**

**AIK**
**ACCESS INTERFACE KEYPAD**

3414

Access interfaces are user-interface devices that allow access by entering a code number or presenting a proximity card.

Beep tones and LEDs on the AI device inform the user about the acceptance or rejection of an operation.

**AIP**
**ACCESS INTERFACE PROXIMITY**

3415

These access interfaces are used with access control units and they can control to swinghandles (ACU Plus - 3403 and ACU - 3402)

RFID card: 13.56Mhz MIFARE - Standard ISO14443A
Order separately
Printed: (34002639) / Unprinted: (34002640)

---

**ACCESSORIES**

**AC-DC Power Supply**
12 Volt DC 3 Amper
(34002625)

- Universal input voltage range.
- Up to 36 W continuous power.
- Interchangeable Ac blades for global use.
- Used with monitoring access control units

*Note: 34002625 Europe blade included. Please contacts Essentra for other blades.*

**AC-DC Power Supply**
12 Volt DC 1 Amper
(34030041)

- Universal input voltage range.
- Up to 12 W continuous power.
- Used with standalone access interfaces.

**RS 485 Repeater**
(34030063)

- Used to connect access interfaces (AIK - 3414 and AIP - 3415) to each other.

**Electronic swinghandle connection cable**

<table>
<thead>
<tr>
<th>CABLE LENGTH</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.4 meter</td>
<td>34030039</td>
</tr>
<tr>
<td>4 meter</td>
<td>34030006</td>
</tr>
<tr>
<td>6 meter</td>
<td>34030064</td>
</tr>
</tbody>
</table>

- Used to connect Electronic swing handles to standalone access interfaces
- The same connectors are crimped both ends of the cable.

**ACU - AI connection cable**
(4 meter)
(34030040)

- Used to connect access interfaces (AIK - 3414 and AIP - 3415) to monitoring and access control units.
## ANALOG SENSORS

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor is needed for measurement of temperature indoors.</td>
<td>Temperature: Min. -50° C - Max. 105° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td></td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002631</strong></td>
</tr>
<tr>
<td>Sensor is needed for measurement of temperature outdoors</td>
<td>Temperature: Min. -10° C - Max. 80° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td></td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002637</strong></td>
</tr>
<tr>
<td>Sensor is needed for measurement of relative humidity 10-95% indoors</td>
<td>Temperature: Min. -10° C - Max. 80° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td></td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002649</strong></td>
</tr>
<tr>
<td>Sensor is needed for measurement of AC 110-240V</td>
<td>Temperature: Min. -10° C - Max. 80° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td></td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002638</strong></td>
</tr>
<tr>
<td>At installation on doors, windows, etc., sensor controls status of door,</td>
<td>Temperature: Min. -10° C - Max. 80° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td>window: opened, closed.</td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002634</strong></td>
</tr>
<tr>
<td>At installation on walls, windows, etc., sensor monitors vibration.</td>
<td>Temperature: Min. -10° C - Max. 80° C / Temperature: Min. -10° C - Max. 80°</td>
</tr>
<tr>
<td>Chain connection is possible.</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002635</strong></td>
</tr>
<tr>
<td>Detector detects smoke indoors. Chain connection is possible.</td>
<td>Temperature: Min. -10° C - Max. 80° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td></td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002632</strong></td>
</tr>
<tr>
<td>Sensor is needed for control of movement over an infra-red range.</td>
<td>Temperature: Min. -10° C - Max. 80° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td></td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002636</strong></td>
</tr>
<tr>
<td>When water is in contact with the metal cores, the sensor indicates the</td>
<td>Temperature: Min. -10° C - Max. 80° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td>emergence of moisture. If sensor is constantly responding to high water</td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td>levels, replace the sensor with a level sensor. Attention! Metal cores are</td>
<td></td>
</tr>
<tr>
<td>detectors of water, mount strictly downwards as close as possible to a</td>
<td></td>
</tr>
<tr>
<td>floor.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002633</strong></td>
</tr>
<tr>
<td>When water is in contact with detection cable sensor indicates the</td>
<td>Temperature: Min. -10° C - Max. 80° C / Humidity: Min. 5% - Max. 95%</td>
</tr>
<tr>
<td>emergence of moisture. Water detection cable 50 is ordered separately art.</td>
<td>(Non-Condensing)</td>
</tr>
<tr>
<td>SC-WDC! If sensor is constantly responding to high water levels, replace</td>
<td></td>
</tr>
<tr>
<td>it with a level sensor.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>34002650</strong></td>
</tr>
</tbody>
</table>

**Contact Information:**

email | sales@essentracomponents.com  
web | www.essentraaccesssolutions.com
ELECTRONIC LOCKING SYSTEM

ELECTRONIC SWINGHANDLE

ALL IN METAL

High security electronic products to protect your organisation’s data

APPLICATIONS:
- Rack cabinets
- Server rooms
- Telecommunication
- Kiosks
- GSM network cabinets

Electrical Specifications:
- Operating Voltage: 12 VDC
- Operating Temperature: +60/-10 C
- Nominal Operating Current:
  - Standby: 6mA
  - Lock/Unlock: 75mA
  - Max. Current: 400mA

PIN Connections:
- PIN 1 - GND
- PIN 2 - +12V
- PIN 3 - N/A
- PIN 4 - Door Position Sensor
- PIN 5 - Control Signal
- PIN 6 - Handle Position Sensor

MATERIALS
- BODY: Zinc Only DIN-EN 1774-ZnAl4Cu1
- HANDLE: Zinc Only DIN-EN 1774-ZnAl4Cu1
- CAM: Steel
- SEAL: Polyurethane

- All metal construction.
- Compatible with access control systems.
- Ability to work mechanically in case of power outage.
- Elegant design.
- Capable to inform door and handle status.
- 12 VDC working voltage

PIN DETAILS

Open-close position of door can be monitored. The max distance between the magnet and the lock is 10 mm.

Electronic swinghandle connection cable

The same connectors are crimped both ends of the cable.
ELECTRONIC LOCKING SYSTEM

- All metal construction.
- Compatible with access control systems.
- Ability to work mechanically in case of power outage.
- Elegant design.
- Capable to inform door and handle status
- 12 VDC working voltage

MATERIALS
BODY: Zinc Only DIN-EN 1774-ZnAl4Cu1
HANDLE: Zinc Only DIN-EN 1774-ZnAl4Cu1
CAM: Steel
SEAL: Polyurethane

SPECIFICATIONS
<table>
<thead>
<tr>
<th>DD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel dust cap (Keyed alike)</td>
</tr>
<tr>
<td>Stainless steel dust cap (Keyed differ)</td>
</tr>
</tbody>
</table>

For cams and rods, please check
Page: 170 - 178
ELECTRONIC LOCKING SYSTEM

ELECTRONIC SWINGHANDLE 3103

High security electronic products to protect your organisation’s data

APPLICATIONS:
- Rack cabinets
- Server rooms
- Telecommunication
- Kiosks
- GSM network cabinets

Electrical Specifications:
- Operating Voltage: 12 VDC
- Operating Temperature: +60/-10 °C
- Nominal Operating Current:
  - Standby: 6mA
  - Lock/Unlock: 75mA
- Max. Current: 400mA

PIN Connections:
- PIN 1 - GND
- PIN 2 - +12V
- PIN 3 - N/A
- PIN 4 - Door Position Sensor
- PIN 5 - Control Signal
- PIN 6 - Handle Position Sensor

Lock Warning Signs

<table>
<thead>
<tr>
<th>Signal</th>
<th>Description</th>
<th>LED Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>While opening the lock</td>
<td>LED 1 blinks fast.</td>
</tr>
<tr>
<td>2</td>
<td>While closing the lock</td>
<td>LED 2 blinks fast.</td>
</tr>
<tr>
<td>3</td>
<td>When the lock is open</td>
<td>Both LEDs blink fast.</td>
</tr>
<tr>
<td>4</td>
<td>When the handle is open</td>
<td>Both LEDs not lit</td>
</tr>
<tr>
<td>5</td>
<td>Error</td>
<td>Both LEDs blink slow.</td>
</tr>
<tr>
<td>6</td>
<td>Ready</td>
<td>Both LEDs are lit.</td>
</tr>
</tbody>
</table>

MATERIALS

BODY: Polyamide DIN-EN ISO 1043-1 PA6 GFR 30
HANDLE: Polyamide DIN-EN ISO 1043-1 PA6 GFR 30
CAM: Steel

LED indicators
- Compatible with access control systems.
- Ability to work mechanically in case of power outage.
- Elegant design.
- Capable to inform door and handle status
- 12 VDC working voltage

PIN DETAILS

ELECTRONIC REAR COVER

Both connectors have the same function.

Connection Cable

The same connectors are crimped both ends of the cable.
In case of power outage remove the dust cover on the handle and open with the key.

Open-close position of door can be monitored. The max distance between the magnet and the lock is 10 mm.

For cams and rods, please check Page: 170 - 178

**MATERIALS**

**BODY:** Polyamide DIN-EN ISO 1043-1 PA6 GFR 30

**HANDLE:** Polyamide DIN-EN ISO 1043-1 PA6 GFR 30

**CAM:** Steel
**ELECTRONIC LOCKING SYSTEM**

**ELECTRONIC SWINGHANDLE**

- Integrated RFID reader.
- Ability to work mechanically in case of power outage.
- Capable to inform door and handle status.
- LED indicators both on lock and reader.
- Supports RS 485 protocol for other protocols please contact to Essentra.
- Can be control a swinghandle (3101, 3102, 3103 and 3104) other than itself.
- 12 VDC working voltage.
- LED indicators.

**MATERIALS**

**BODY:** Polyamide DIN-EN ISO 1043-1 PA6 GFR 30

**HANDLE:** Polyamide DIN-EN ISO 1043-1 PA6 GFR 30

**CAM:** Steel

**APPLICATIONS:**
- Rack cabinets
- Server rooms
- Telecomunication
- Kiosks
- GSM network cabinets

**Electrical Specifications:**
- Operating Voltage: 12 VDC
- Operating Temperature: +60/ -10 C
- Nominal Operating Current:
  - Standby: 6mA
  - Lock/Unlock: 75mA
  - Max. Current: 400mA

**PIN Connections:***

- PIN 1 - GND
- PIN 2 - +12V
- PIN 3 - N/A
- PIN 4 - Door Position Sensor
- PIN 5 - Control Signal
- PIN 6 - Handle Position Sensor

**Lock Warning Signs**

<table>
<thead>
<tr>
<th>Signal</th>
<th>Description</th>
<th>LED State</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>While opening the lock</td>
<td>1 blinks fast.</td>
</tr>
<tr>
<td>2</td>
<td>While closing the lock</td>
<td>2 blinks fast.</td>
</tr>
<tr>
<td>3</td>
<td>When the lock is open</td>
<td>Both LEDs</td>
</tr>
<tr>
<td>4</td>
<td>When the handle is open</td>
<td>Both LEDs</td>
</tr>
<tr>
<td>5</td>
<td>Error</td>
<td>Both LEDs</td>
</tr>
<tr>
<td>6</td>
<td>Ready</td>
<td>Both LEDs</td>
</tr>
</tbody>
</table>

**PIN DETAILS**

Both connectors have the same function.

The same connectors are crimped both ends of the cable.

**Cut out**
ELECTRONIC LOCKING SYSTEM

ELECTRONIC SWINGHANDLE

MATERIALS
BODY: Polyamide DIN-EN ISO 1043-1 PA6 GFR 30
HANDLE: Polyamide DIN-EN ISO 1043-1 PA6 GFR 30
MECHANISM: Zinc Only DIN-EN 1774-ZnAl4Cu1
CAM: Steel

In case of power outage remove the dust cover on the handle and open with the key.

Open-close position of door can be monitored. The max distance between the magnet and the lock is 10 mm.

For cams and rods, please check Page: 170 -178

GROUP CODE

HANDLE 20 BODY 20 DD CC
CYLINDER FINISH FINISH
MATERIAL

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>GROUP CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel dust cap (Keyed alike)</td>
<td>40</td>
</tr>
<tr>
<td>Stainless steel dust cap (Keyed differ)</td>
<td>32</td>
</tr>
</tbody>
</table>

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ELECTRONIC LOCKING SYSTEM

ELECTRONIC SWINGHANDLE

3105

High security electronic products to protect your organisation's data

APPLICATIONS:
Outdoor cabinets
Telecommunication
Kiosks
ATMs
Electrical enclosures

• Compatible with access control systems.
• All metal construction
• Special geometry provides anti-vandalism safety
• Improved corrosion resistance
• Suitable to DIN V ENV1630: 1999-04/WK2 test
• Double o-ring used for handle provides improved IP rating
• High-security cylinder alternative
• Better IP rating with moving dust cap

MATERIALS
BODY: Zinc Only DIN-EN 1774-ZnAl4Cu1
GASKET: Polyurethane
COVER: Zinc Only DIN-EN 1774-ZnAl4Cu1

APPLICATIONS:
Outdoor cabinets
Telecommunication
Kiosks
ATMs
Electrical enclosures

Standard Application
Electromechanical Application

Simply changing the cover assembly is enough to switch from standard to electromechanical application

Lock operating principle
Electronical and mechanical

Technical specifications:
• Voltage: 48 VDC
• Current 500 mA
• High temperature resistance: 150 °C

Electronic access options, remote control, card reader, etc., activate the lock. It is then ready to be opened by the mechanical key

tel | 800 847 0486  fax | 866 561 6617
ELECTRONIC LOCKING SYSTEM

- Compatible with access control systems.
- All metal construction
- Special geometry provides anti-vandalism safety
- Improved corrosion resistance
- Meets DIN V ENV1630:1999-04/WK2 standard
- Double o-ring used for handle provides improved IP rating
- High-security cylinder alternative
- Better IP rating with moving dust cap

MATERIALS
- BODY: Zinc Only DIN-EN 1774-ZnAl4Cu1
- MECHANISM: Zinc Only DIN-EN 1774-ZnAl4Cu1
- GASKET: Polyurethane
- COVER: Zinc Only DIN-EN 1774-ZnAl4Cu1

HIGH SECURITY CYLINDER
- Zinc Only cylinder

<table>
<thead>
<tr>
<th>KEYED ALIKE</th>
<th>KEYED DIFFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>23</td>
</tr>
</tbody>
</table>
ELECTRONIC LOCKING SYSTEM

ELECTRONIC KEEPER

- Push to Close
- 12 Volt DC supply voltage
- Two different mechanical override option
- Auto locking
- Internal microswitch
- Microprocessor controlled gear motor
- Compatible with access control systems

MATERIALS

BODY: Plastic
CAM: Zinc Only 5

TECHNICAL SPECIFICATIONS

Cable Length: 180 mm
Operating Voltage: 12 Volt
Current: Max. 500 mA
Stroke: 9 mm

Pins | Colours
--- | ---
Pin 1 | Black  | GND
Pin 2 | Green  | 12 Volt DC
Pin 3 | Orange | Signal
Pin 4 | Red    | Microswitch COM
Pin 5 | Blue   | Microswitch NO
Pin 6 | Brown  | N/A

Two different mechanical override option
ELECTRONIC LOCKING SYSTEM

Solenoid Lock

- Compatible with access control systems
- Push to close with a special bracket
- Mechanical override option
- Auto locking
- DC type solenoid
- Solenoid has no polarity
- Resistance of solenoid varies with the applied voltage.
- The solenoid becomes hot (around 80 °C) when continuously energized, precautions should be taken to prevent burns

Materials

- Body: Steel
- Plunger: Steel
- Bracket: Delrin

Technical Specifications

- Operating Voltage: 24 V DC
- Current Consumption: 550 mA
- Power Consumption: 13.2 W
- Operating Temperature Range: -5 °C / +40 °C
- Cable Length: 30 cm
- Stroke: 10 mm

Please Contact Essentra

* For AC type of solenoids
* For different voltages
* For different strokes

3311 Solenoid Lock

Force - Stroke Graph in Horizontal Installation

Product Code

3311

<table>
<thead>
<tr>
<th>Group Code</th>
<th>Version</th>
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<tbody>
<tr>
<td>V</td>
<td>Without Mechanical Override 1</td>
</tr>
<tr>
<td></td>
<td>With Mechanical Override 2</td>
</tr>
</tbody>
</table>
ELECTRONIC CABINET LOCK

3204

New

Keypad

Electronic solutions for improving security

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications

- Operating voltage: 3x1.5 V = 4.5 V
- Battery: 3xAAA Alkali battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 4-12 digit
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90 % RH

MATERIALS

BODY: Aluminium
HANDLE: Aluminium
PANEL: Plastic
CAM: Steel

For cams please check page: 175 (Cam 1)
ELECTRONIC LOCKING SYSTEM

RFID card reader

Electronic solutions for improving security

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc...

ELECTRONIC CABINET LOCK

- Ability to open with a RFID card without key
- Elegant design suitable for office environments
- Multi-user support
- Micro USB emergency power-supply
- Low battery level indicator
- For general or specialised use
- Easy installation
- Easy to use
- High-security
- Burglar alarm
- Melody yes/no adjustment
- Stylish visual-warning LEDs

MATERIALS
BODY: Aluminium
HANDLE: Aluminium
PANEL: Plastic
CAM: Steel

For cams please check page: 175 (Cam 1)

Technical specifications
- Operating voltage: 3x1.5 V = 4.5 V
- Battery: 3xAAA Alkaline battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Card type: RFID 13.56Mhz MIFARE - Standard ISO14443A
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90% RH

RFID Card

Order separately
Printed: (340.0.2639)
Unprinted: (340.0.2640)

External dimensions

PRODUCT CODE

POSITION

<table>
<thead>
<tr>
<th>GROUP CODE</th>
<th>P</th>
<th>C C</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>Vertical</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
ELECTRONIC LOCKING SYSTEM

**ELECTRONIC CABINET LOCK**

3211

New

Touch Panel

Electronic solutions for improving security

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications

- Operating voltage: 2x1.5 V = 3 V
- Battery: 2xAAA Alkali battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 1-15 digit
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90 % RH

MATERIALS

BODY: Aluminium
HANDLE: Aluminium
CAM: Steel

Forcams please check page: 175 (Cam 1)
Touch Panel

Electronic solutions for improving security

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications

- Operating voltage: 3 V
- Battery: CR2032 battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 1-15 digit
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90% RH

Cut out:
- Battery box
- Knob
- Cam
- Touch panel

MATERIALS
- BODY: Aluminium
- HANDLE: Aluminium
- CAM: Steel

For cams please check page: 175 (Cam 1)
ELECTRONIC CABINET LOCK

3213

Touch Panel

Electronic solutions for improving security

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

- Ability to open with a password without card and key
- Elegant design suitable for office environments
- When the password has been forgotten, it is possible to remote control and USB-Key for solving the password
- Micro USB emergency power-supply
- Low battery level indicator
- For general or specialised use
- Auto-alarm will be activated when input wrong password 4 times and the lock will be died for 60 seconds.
- You can create the fake pin password against thievery
- Easy installation
- Easy to use
- High-security
- Melody yes/no adjustment
- Stylish visual-warning LEDs

MATERIALS
BODY: Aluminium
CAM: Steel

For cams please check page: 175 (Cam 1)

Technical specifications
- Operating voltage: 3 V
- Battery: Cr2032 battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 1-15 digit
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90 % RH

For cams please check page: 175 (Cam 1)
ELECTRONIC LOCKING SYSTEM

Electronic solutions for improving security

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications
- Operating voltage: 3x1.5 V = 4.5 V
- Battery: 3xAAA Alkali battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 1-15 digit
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90 % RH

Touch Panel

3214 ELECTRONIC CABINET LOCK

- Ability to open with a password without card and key
- Elegant design suitable for office environments
- When the password has been forgotten, it is possible to remote control and USB-Key for solving the password
- Micro USB emergency power-supply
- Low battery level indicator
- For general or specialised use
- Auto-alarm will be activated when input wrong password 4 times and the lock will be died for 60 seconds.
- You can create the fake pin password against thievery
- Easy to use
- High-security
- Melody yes/no adjustment
- Stylish visual-warning LEDs

MATERIALS
BODY: Plastic
CAM: Steel

Touch Panel

New

Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications
- Operating voltage: 3x1.5 V = 4.5 V
- Battery: 3xAAA Alkali battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 1-15 digit
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90 % RH

Touch Panel

New

Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications
- Operating voltage: 3x1.5 V = 4.5 V
- Battery: 3xAAA Alkali battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 1-15 digit
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90 % RH

Touch Panel

New

Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications
- Operating voltage: 3x1.5 V = 4.5 V
- Battery: 3xAAA Alkali battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 1-15 digit
- Operating temperature range: -20°C ~ +70°C
- Operating humidity range: 0 ~ 90 % RH

Touch Panel

New
ELECTRONIC LOCKING SYSTEM

ELECTRONIC CABINET LOCK 3202

- Ability to open with a password without card and key
- Elegant design suitable for office environments
- Multi-user support
- Micro USB emergency power-supply input behind sliding cover
- Low battery level indicator
- For general or specialised use
- Easy installation
- Easy to use
- High-security
- Burglar alarm
- Melody yes/no adjustment
- Stylish visual-warning LEDs

MATERIALS
BODY: Plastic
LATCHING BODY: Plastic
GASKET: Rubber
CAM: Steel

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications
- Operating voltage: 3x1.5 V = 4.5 V
- Battery: 3xAA Alkali battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Password combination: 4-12 digit
- Operating temperature range: -15 ~ 55°C
- Operating humidity range: 0 ~ 90% RH

When it runs out of batteries, slide the cover and the lock can be opened with the Micro USB connector.

For different door thicknesses please contact Essentra.

<table>
<thead>
<tr>
<th>DT - DOOR THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min</td>
</tr>
<tr>
<td>11mm</td>
</tr>
</tbody>
</table>
ELECTRONIC LOCKING SYSTEM

RFID card reader

Electronic solutions for improving security

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Technical specifications
- Operating voltage: 3x1.5 V = 4.5 V
- Battery: 3xAA Alkali battery
- Battery life: Approx. 1.5 year (daily 10 use)
- Card type: RFID 13.56Mhz MIFARE - Standard ISO14443A
- Operating temperature range: -15 ~ 55°C
- Operating humidity range: 0 ~ 90 % RH

External dimensions

RFID Card
Order separately
Printed: (340.0.2639)
Unprinted: (340.0.2640)

Note:
Instructions for use, installation dimensions, etc. More information is available in the instruction book with the lock.

MATERIALS
BODY: Plastic
LOCK PANEL: Plastic
GASKET: Rubber
CAM: Steel

PRODUCT CODE
GROUP CODE - POSITION

POSITION P
Horizontal 1
Vertical 2

email | sales@essentracomponents.com  web | www.essentraaccesssolutions.com
ELECTRONIC LOCKING SYSTEM

ELECTRONIC CABINET LOCK 3201

• Input password to open door; no need for card or key
• Two types:
  -- Public with temporary password
  -- Private with permanent password
• Two management levels: master code and user code
• Low power alarm: the lock will indicate when the battery has insufficient power
• Emergency open: external power supply can be used via a socket in the lock if sufficient battery power is not available

MATERIALS
LOCK PANEL: Zinc Only
KEYS: Plastic
LOCK BODY: Plastic
CAM: Zinc Only

APPLICATIONS:
Various cabinets or lockers in sauna area, spa, gym, office, school, etc.

Electronic solutions for improving security

Technical specifications
Password digital: >= 4, <= 10
Power source: 4 pcs AAA alkaline batteries
Static current: <10µA
Dynamic current: <220mA
Alarm power: <4.7V
Memory capacity: 4160 Bit

Work temperature: -25°C ~ 65°C
Store temperature: -25°C ~ 85°C
Store time: > 10 years
Change: 1,000,000 times
Work humidity: 5 ~ 95 % RH (No condensation)

Note:
Instructions for use, installation dimensions, etc. More information is available in the instruction book with the lock.

External power supply product code: 340.0.2643 (Order separately)
**ELECTRONIC LOCKING SYSTEM**

**APPLICATIONS:**
- Coolers
- Fridges
- Electric panels
- Cabinets

**Technical specifications**

**Main board**
- Input voltage: 12V - 18V AC
- Output current: 650 mA x2
- RF frequency: 433.92 MHz
- Working temperature range: -25 °C to +70 °C
- Control: Microprocessor
- Cable length: 70 cm
- Alert type: Buzzer
- Identification: Master remote control
- Locking security: Watchdog

**Remote control**
- RF Frequency: 433.92 MHz
- Keys: 2 (Open/Close)
- Battery: 27A
- Control: Microprocessor
- Cable length: 70 cm
- Alert type: Buzzer
- Identification: Master remote control

**Master remote control**
- RF Frequency: 433.92 MHz
- Keys: 2 (Same function)
- Battery: 27A
- Function: New remote control identification

**Materials**
- Body: Plastic
- Plunger: Steel
- Bracket: Delrin

**Applications**
- Remote Control Lock
- Multidirectional application

**Technical details**
- Lock can be opened mechanically with a piece of thin metal
-.stroke: 8 mm

**Contact information**
- email | sales@essentracomponents.com
- web | www.essentraaccesssolutions.com