ELECTRONIC LOCKING SYSTEM

518-547

mesan
ESSENTRA COMPONENTS

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FAST FIND INDEX

MONITORING & ACCESS CONTROL CONCEPT

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





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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

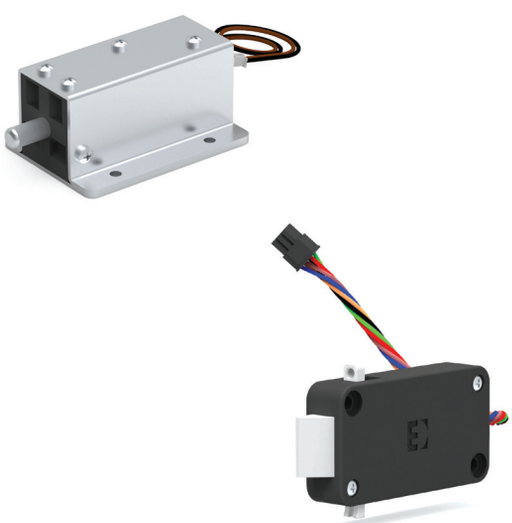
ACU : Access Control Unit
ACU Plus : Access Control Unit
AIK : Access Interface Keypad
AIP : Access Interface Proximity

Management Software

Standalone Access Interfaces

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

Other Electromechanical Locks

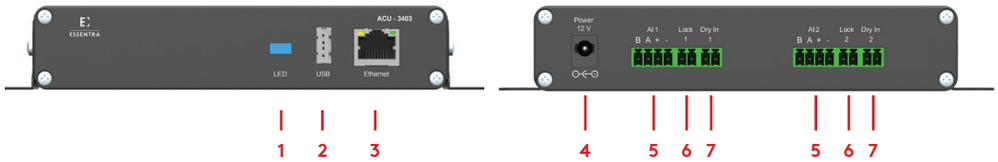


Electronic Swinghandles

ELECTRONIC LOCKING SYSTEM

ACU
ACCESS CONTROL UNIT

3402



1 ▶ LED indicator
2 ▶ USB 2.0
3 ▶ Ethernet port 10/100
4 ▶ Power input (12VDC 3A)
5 ▶ 18 x access interface inputs
6 ▶ 2 x lock outputs
7 ▶ 2 x dry contact inputs

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

- Control of physical access to the rack cabinet
- Monitors and manage 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 16 AIs (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

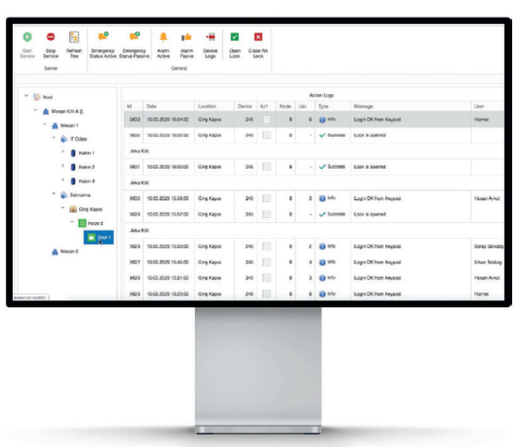
APPLICATIONS
Suitable for data centres, co-location centres, web hosting facilities, telecom racks or any unmanned area/site that needs to be monitored

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

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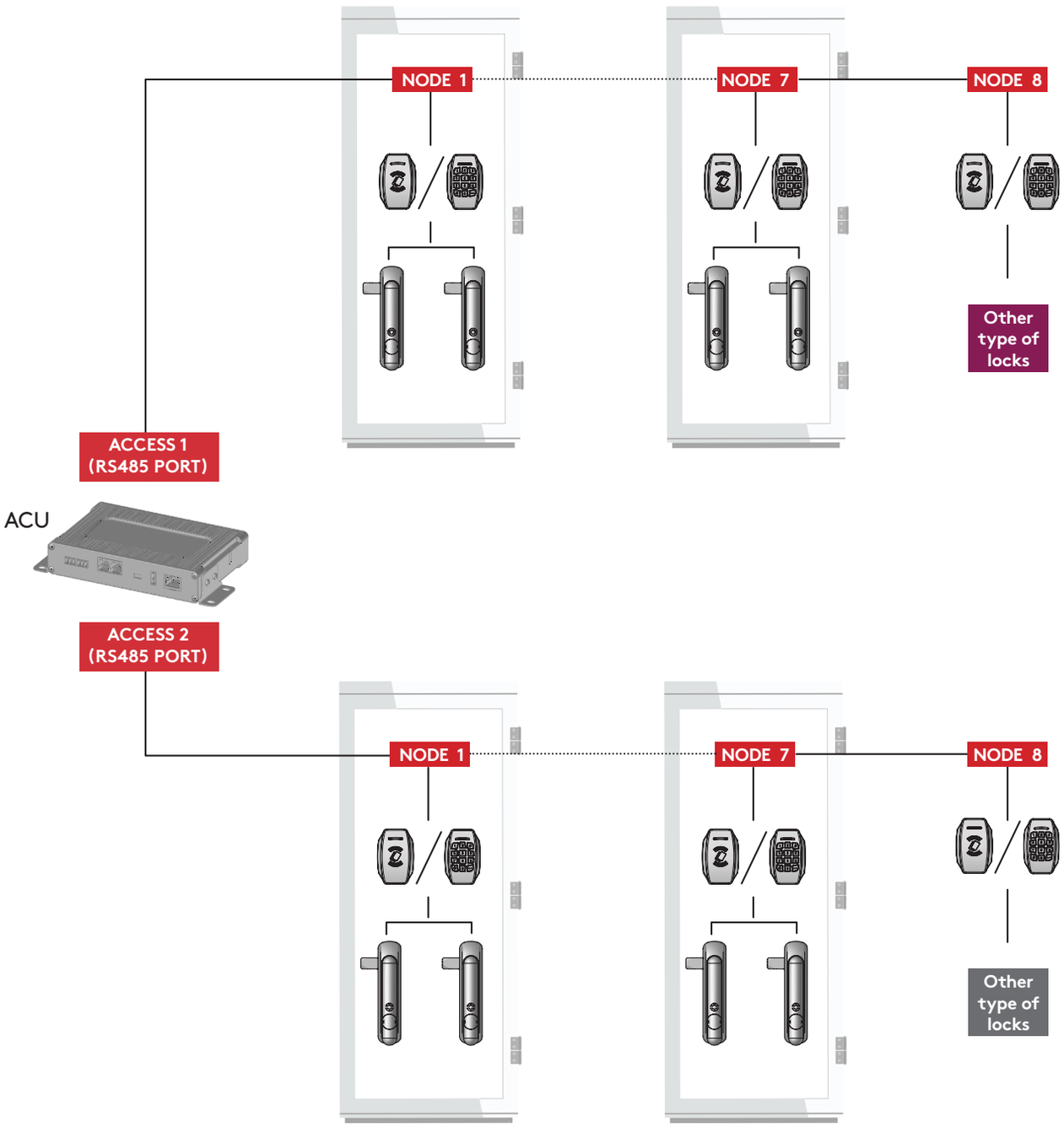
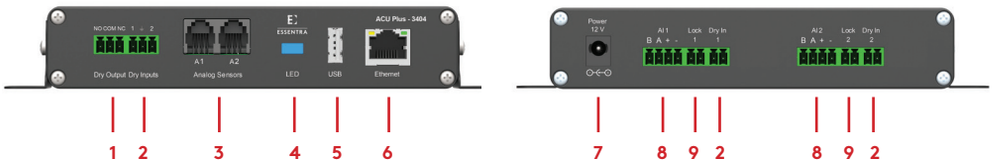
SYSTEM OVERVIEW



- Up to 18 access interfacess can be connected to access control unit.
- Up to 32 swinghandle can be controlled by one access control unit.
- Two access interfacess are reserved for use of different type of locks (Node 8).

ACU PLUS
ACCESS CONTROL UNIT

3403



1 ▶ Dry contact output (2A)
2 ▶ 4 x dry contact inputs
3 ▶ 2 x analog sensors
4 ▶ LED indicator
5 ▶ USB 2.0
6 ▶ Ethernet port 10/100
7 ▶ Power input (12VDC 3A)
8 ▶ 18 x access interface inputs
9 ▶ 2 x lock outputs

The ACU Plus is an intelligent device for monitoring environmental variations, such as temperature, humidity, smoke, presence of water or liquids, etc. and controllig electronic locks and monitoring door status.

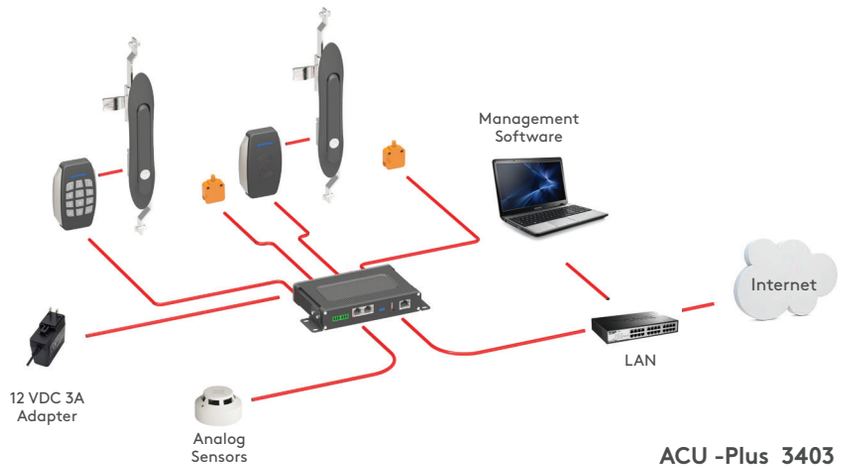
- Control of physical access to the rack cabinet
- Monitors and manage environmental and security conditions over IP
- Alerts are sent using email when any monitored environmental condition exceeds a user-specified range
- User database
- Management software for monitoring and configuring the unit
- 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



ACU -Plus 3403
System Overview

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.

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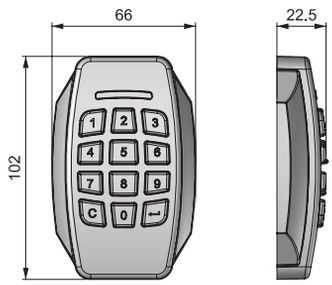
3416 S-AIK STANDALONE ACCESS INTERFACE KEYPAD



12 VDC 1A
Adapter

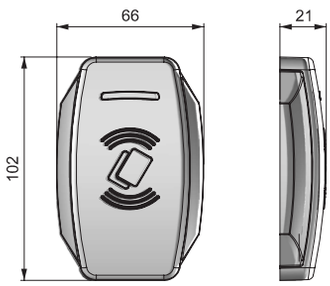
- Two level password (Master and User)
- Two lock outputs to control physical access to the cabinet
- Possible to connect wide range of locks including electronic swinghandles
- 12 Volt DC supply voltage
- Material: ABS Cover and Zamak5 Body
- It can control the locks separately
- Beep tones and LEDs on the AI device inform the user about the acceptance or rejection of an operation.

STATUS INDICATORS		
Signal 1		Ready
Signal2		Error
Signal 3		Ok
Signal 3		Menu

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.

3417 S-AIP STANDALONE ACCESS INTERFACE PROXIMTY



12 VDC 1A
Adapter

- 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 Zamak5 Body
- It can control the locks separately
- Beep tones and LEDs on the AI device inform the user babout the acceptance or rejection of an operation.

RFID card: 13.56Mhz MIFARE - Standard ISO14443A

Order separately
Printed: (34002639)
Unprinted: (34002640)

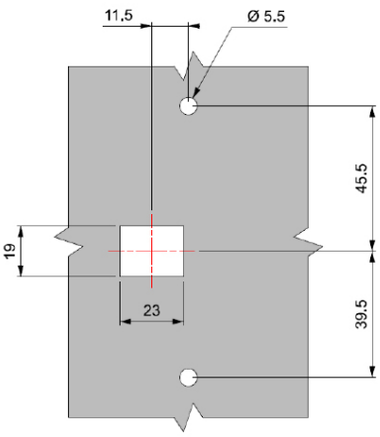
ELECTRONIC LOCKING SYSTEM

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 PROXIMTY — 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

CABLE LENGHT	CODE
0,4 meter	34030039
4 meter	34030006
6 meter	34030064

- 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.

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ANALOG SENSORS

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

ELECTRONIC SWINGHANDLE — 3101

ALL IN METAL

- 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:	Zamak DIN-EN 1774-ZnAl4Cu1
HANDLE:	Zamak DIN-EN 1774-ZnAl4Cu1
CAM:	Steel
SEAL:	Polyurethane

High security electronic products to protect your organisation's data

APPLICATIONS:

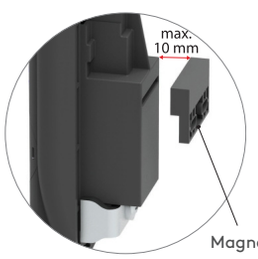
Rack cabinets
Server rooms
Telecomunication
Kiosks
GSM network cabinets

Electrical Specifications:

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

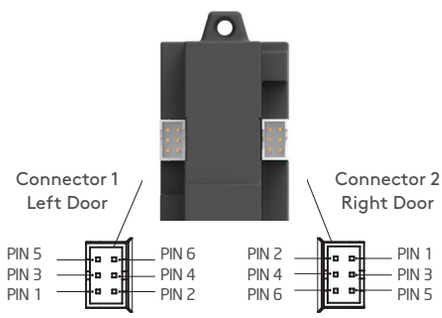
PIN Connections;

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



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

PIN DETAILS



Both connectors have the same function.

Electronic swinghandle connection cable

The same connectors are crimped both ends of the cable.

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3102 ELECTRONIC SWINGHANDLE

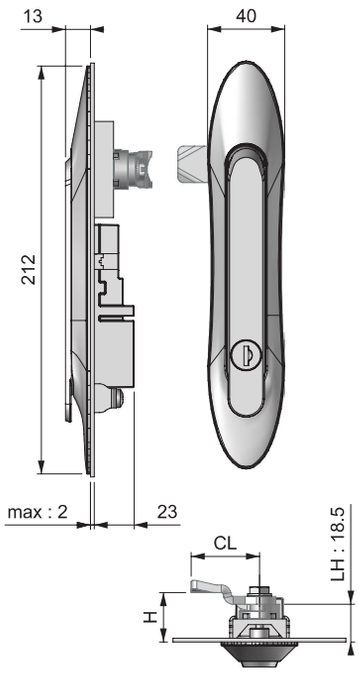
ALL IN METAL

- 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

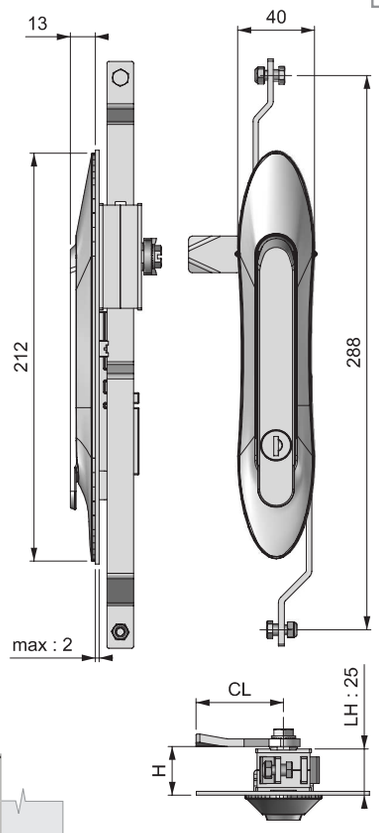
MATERIALS

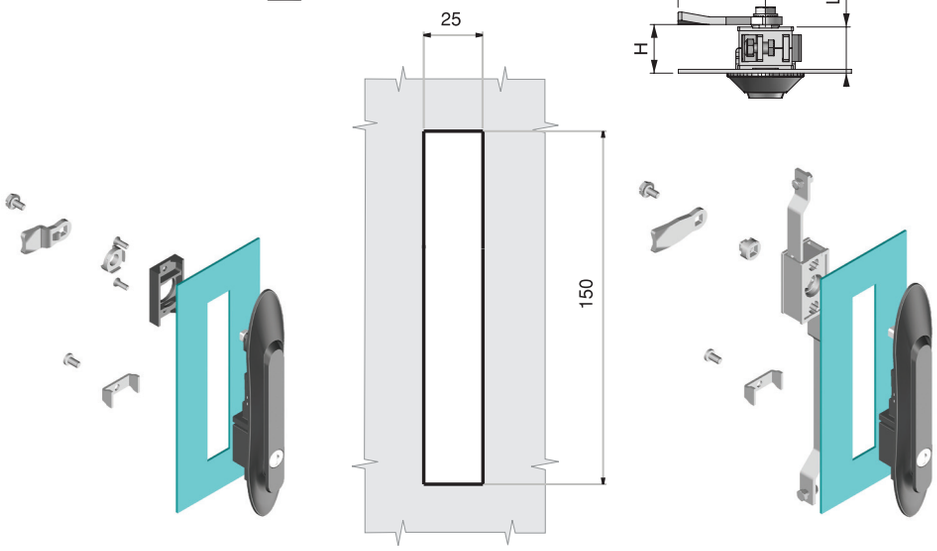
BODY:	Zamak DIN-EN 1774-ZnAl4Cu1
HANDLE:	Zamak DIN-EN 1774-ZnAl4Cu1
CAM:	Steel
SEAL:	Polyurethane

3101



3102





Cut out

SPECIFICATIONS	DD
Stainless steel dust cap (Keyed alike)	40
Stainless steel dust cap (Keyed differ)	32

Group Code	Handle		Body		Cylinder	Cam
	1	2	1	2	DD	CC

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

ELECTRONIC SWINGHANDLE 3103

High security electronic products to protect your organisation's data

APPLICATIONS:

Rack cabinets
Server rooms
Telecomunication
Kiosks
GSM network cabinets

- 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

MATERIALS

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

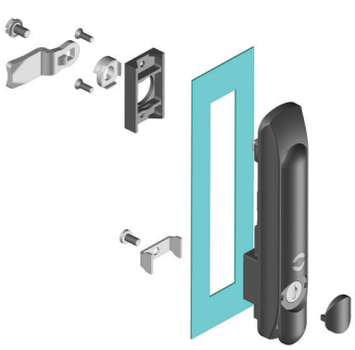
Electrical Specifications:

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

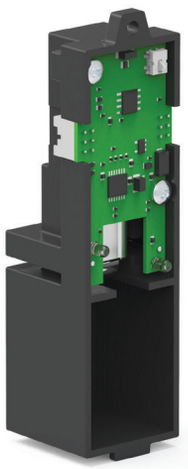
PIN Connections;

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

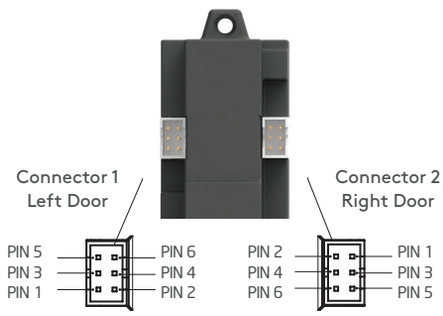
Lock Warning Signs			
Signal 1		While opening the lock	LED 1 blinks fast.
Signal 2		While closing the lock	LED 2 blinks fast.
Signal 3		When the lock is open	Both LEDs blink fast.
Signal 4		When the handle is open	Both LEDs not lit
Signal 5		Error	Both LEDs blink slow.
Signal 6		Ready	Both LEDs are lit.



ELECTRONIC REAR COVER



PIN DETAILS



Both connectors have the same function.

Connection Cable

The same connectors are crimped both ends of the cable.

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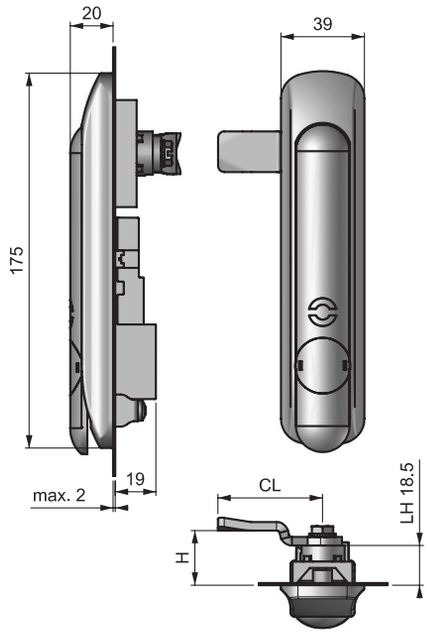
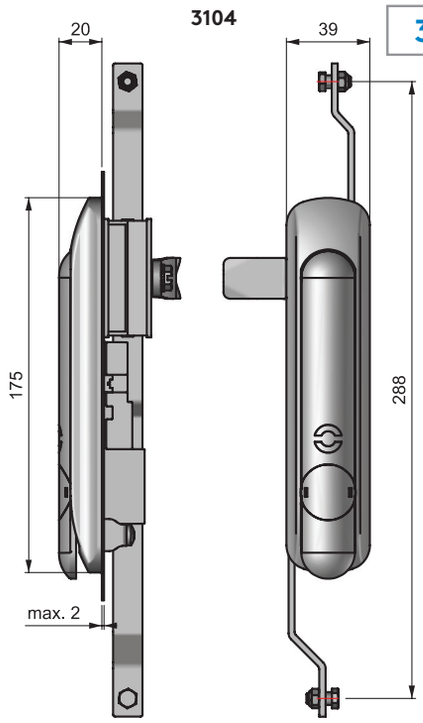
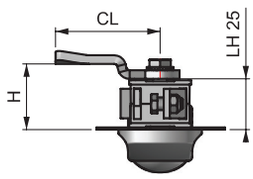
3104 ELECTRONIC SWINGHANDLE

3103

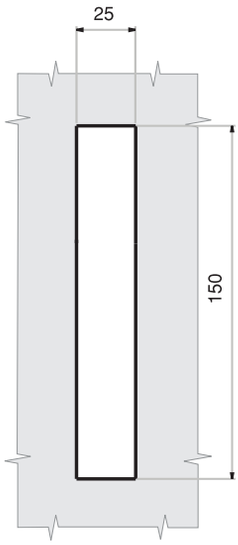


3104





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



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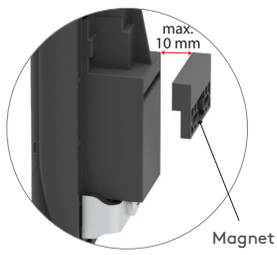


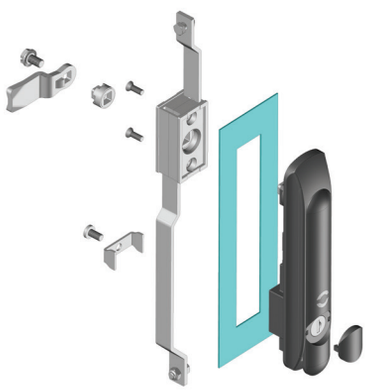
Open-close position of door can be monitored. The max distance between the magnet and the lock is 10 mm.

MATERIALS

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

SPECIFICATIONS	DD
Stainless steel dust cap (Keyed alike)	40
Stainless steel dust cap (Keyed differ)	32

Group Code	Handle		Body		Cylinder	Cam
	2	0	2	0	DD	CC



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

ELECTRONIC SWINGHANDLE — 3111

High security electronic products to protect your organisation's data

APPLICATIONS:

Rack cabinets
Server rooms
Telecomunication
Kiosks
GSM network cabinets

- 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

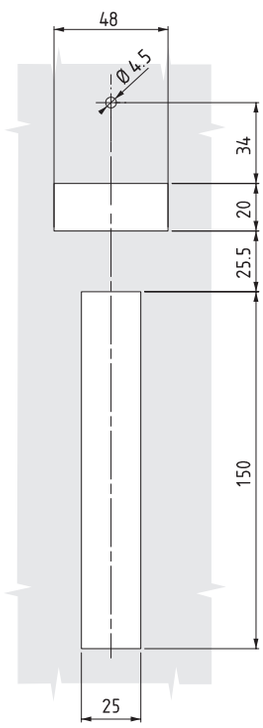
Electrical Specifications:

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

PIN Connections;

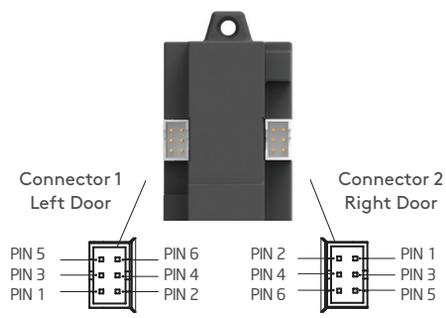
PIN 1- GND
PIN 2- +12V
PIN 3- N/A
PIN 4- Door Position Sensor
PIN 5- Control Signal
PIN 6- Handle Position Sensor

Lock Warning Signs			
Signal 1		While opening the lock	LED 1 blinks fast.
Signal 2		While closing the lock	LED 2 blinks fast.
Signal 3		When the lock is open	Both LEDs blink fast.
Signal 4		When the handle is open	Both LEDs not lit
Signal 5		Error	Both LEDs blink slow.
Signal 6		Ready	Both LEDs are lit.



Cut out

PIN DETAILS



Both connectors have the same function.

Connection Cable

The same connectors are crimped both ends of the cable.

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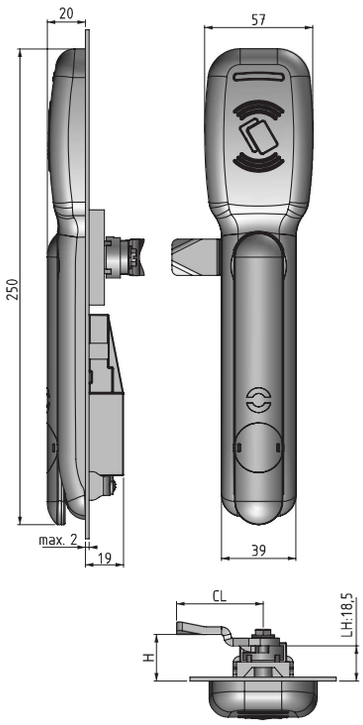
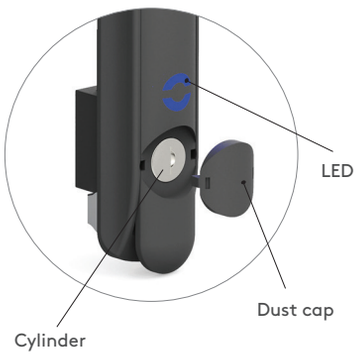
3112 ELECTRONIC SWINGHANDLE

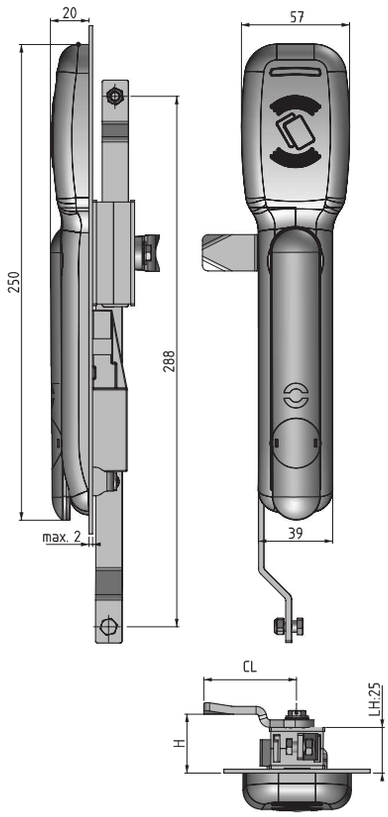
3111

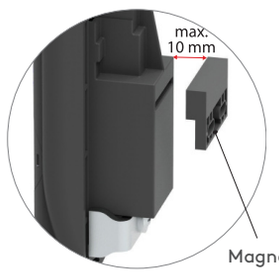




In case of power outage remove the dust cover on the handle and open with the key.

3112





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

MATERIALS

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

SPECIFICATIONS	DD
Stainless steel dust cap (Keyed alike)	40
Stainless steel dust cap (Keyed differ)	32

Group Code	Handle		Body		Cylinder	Cam
	2	0	2	0	DD	CC

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

ELECTRONIC SWINGHANDLE — 3105

High security electronic products to protect your organisation's data

APPLICATIONS:

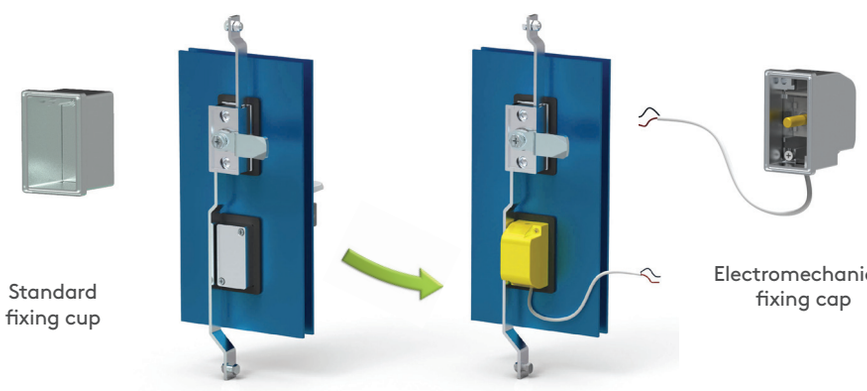
Outdoor cabinets
Telecomunication
Kiosks
ATMs
Electrical enclosures

- Compatible with access control systems.
- All metal construction
- Special geometry provides anti-vandalism safety
- Improved corrosion resistance
- Suitable to DIN V ENV 1630: 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:	Zamak DIN-EN 1774-ZnAl4Cu1
GASKET:	Polyurethane
COVER:	Zamak DIN-EN 1774-ZnAl4Cu1

Standard Application **Electromechanical Application**



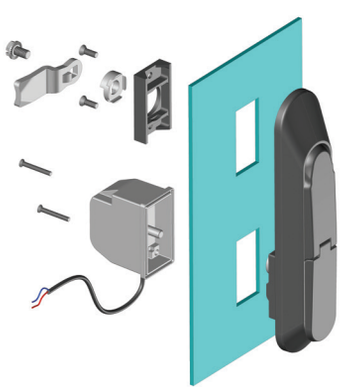
Simply changing the cover assembly is enough to switch from standard to electromechanical application

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

⚠ **Note:** Remote control should be ordered separately

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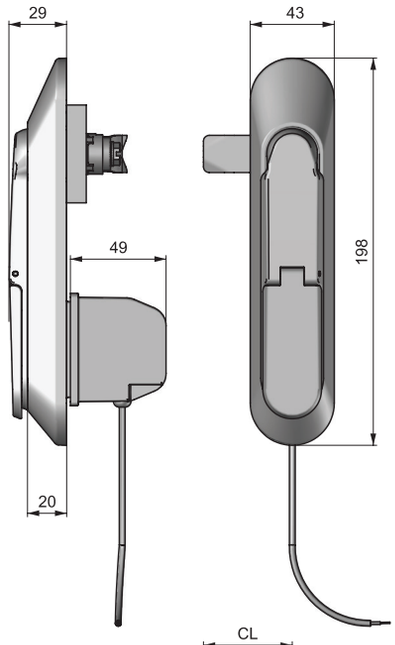
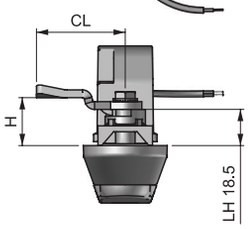
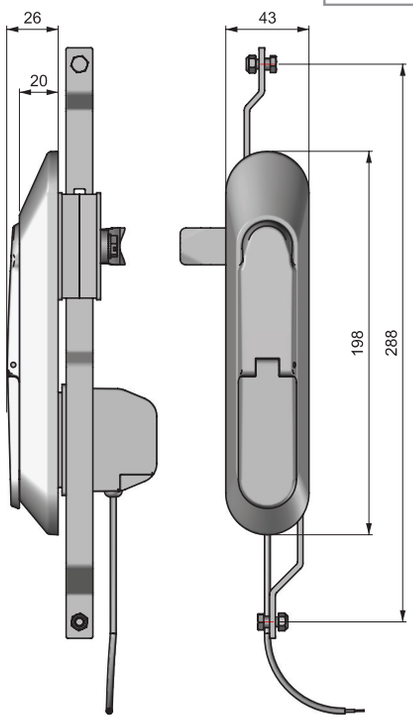
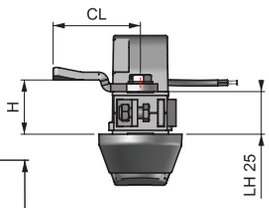
3105

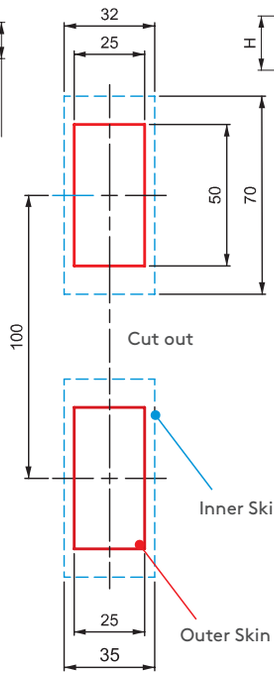




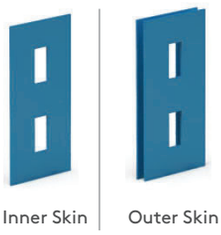
3106







Assembly application



VERSION	V
Inner Skin	1
Outer Skin	3

Group Code	Version	Handle		Body		Cylinder	Cam
	V	1	2	1	2	DD	CC

HIGH SECURITY CYLINDER

Zamak cylinder

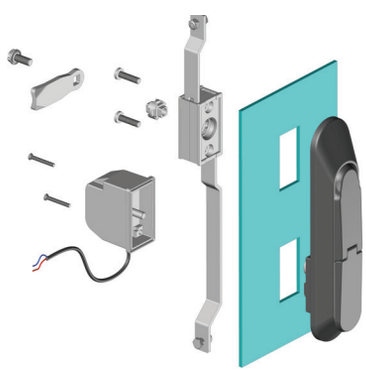
Keyed alike	Keyed differ
22	23

3106 ELECTRONIC SWINGHANDLE

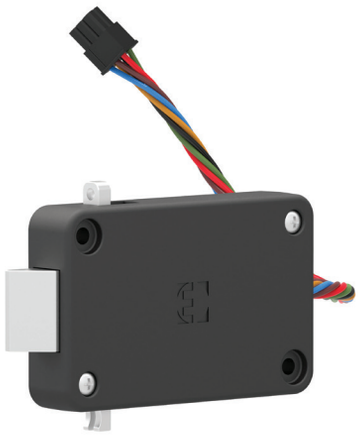
- Compatible with access control systems.
- All metal construction
- Special geometry provides anti-vandalism safety
- Improved corrosion resistance
- Meets DIN V ENV 1630:1999-04/ WK2 standard
- Double o-ring used for handle provides improved IP rating
- High-security cylinder alternative
- Better IP rating with moving dust cap

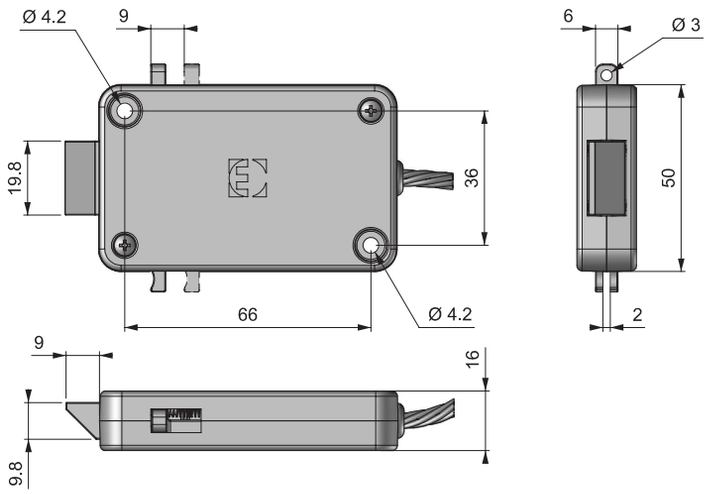
MATERIALS

BODY:	Zamak DIN-EN 1774-ZnAl4Cu1
MECHANISM:	Zamak DIN-EN 1774-ZnAl4Cu1
GASKET:	Polyurethane
COVER:	Zamak DIN-EN 1774-ZnAl4Cu1



ELECTRONIC KEEPER — 3341





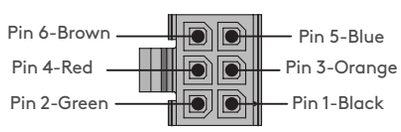
- Push to Close
- 12 Volt DC supply voltage
- Two different mechanical owerride option
- Auto locking
- Internal microswitch
- Microprocessor controlled gear motor
- Compatible with access control systems

MATERIALS

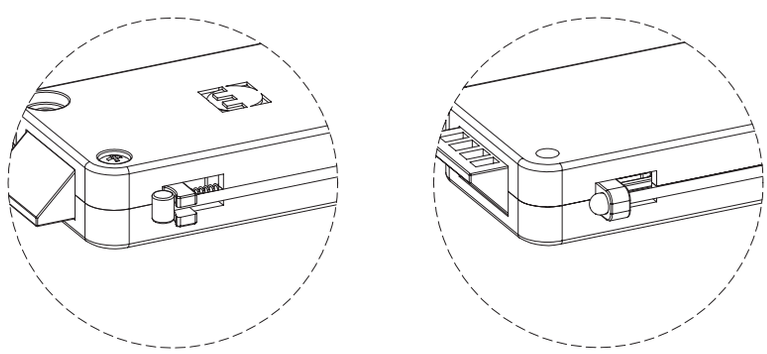
BODY:	Plastic
CAM:	Zamak 5

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

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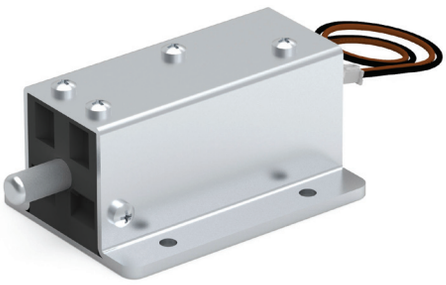
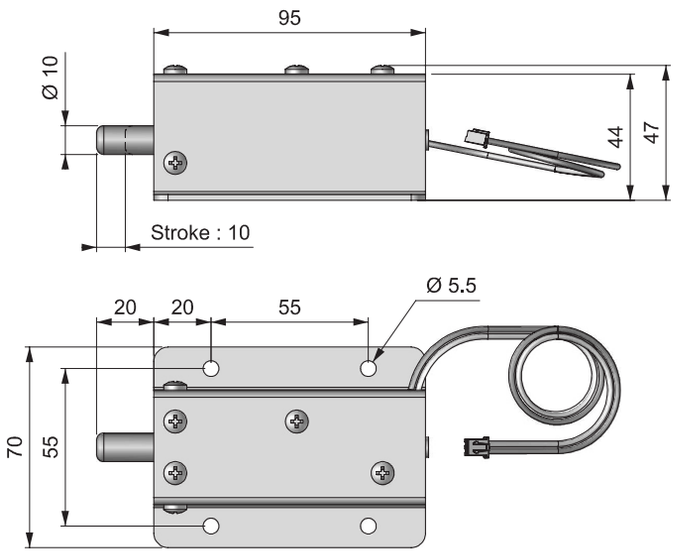
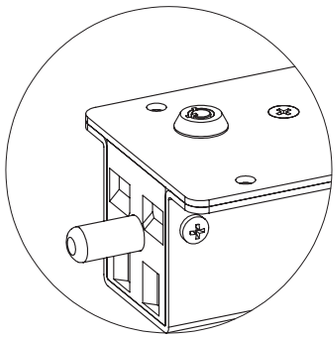
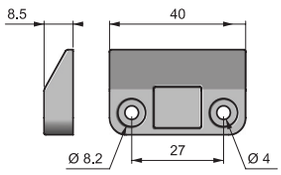
3311 SOLENOID LOCK







Mechanical override
with high security cylinder



Bracket

Code: 30302223

- 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 continiously energized, precautions should be taken to prevent burns

MATERIALS

BODY:	Steel
PLUNGER:	Steel
BRACKET:	Delrin

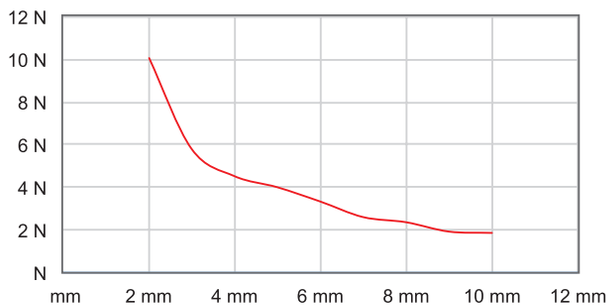
TECHNICAL SPECIFICATIONS

Operating Voltage	: 24 V DC
Current Consumtion	: 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

Group Code	Version
3311	V

VERSION	V
Without Mechanical Override	1
With Mechanical Override	2

ELECTRONIC LOCKING SYSTEM

ELECTRONIC CABINET LOCK — 3204

Keypad

Electronic solutions for improving security

APPLICATIONS:

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

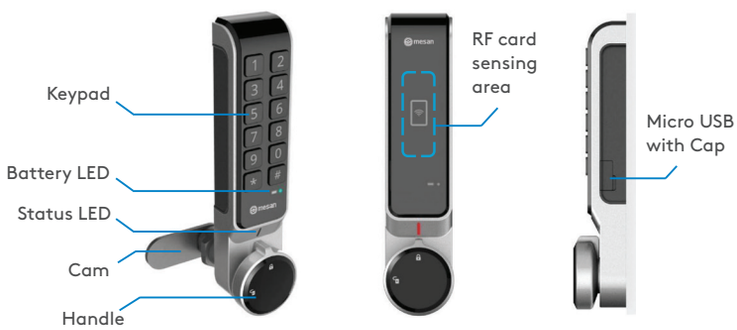
Technical specifications

• 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

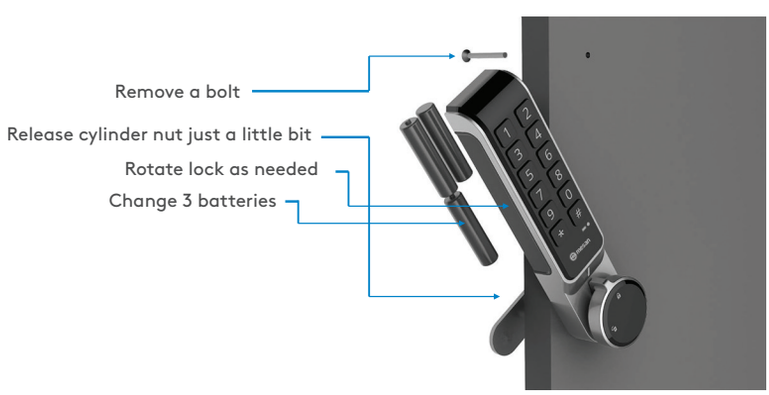
- Ability to open with a password without card and key
- Elegant design suitable for office environments
- Multi-user support
- Micro USB emergency power-supply
- Low battery level indicator
- For general or specialised use
- Easy installation
- Easy to use
- High-security
- Burglar alarm
- Melody yes/no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

MATERIALS

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



Change Batteries



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

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RFID Card Reader

3205 ELECTRONIC CABINET LOCK

Electronic solutions for improving security

APPLICATIONS:

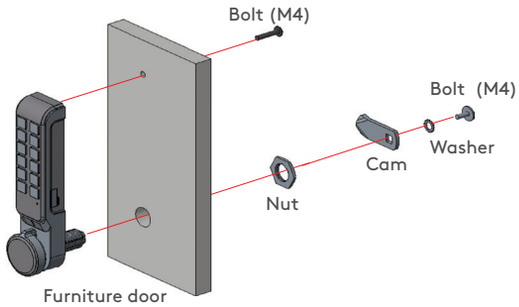
Various cabinets or lockers in sauna area, spa, gym, office, school, etc. .

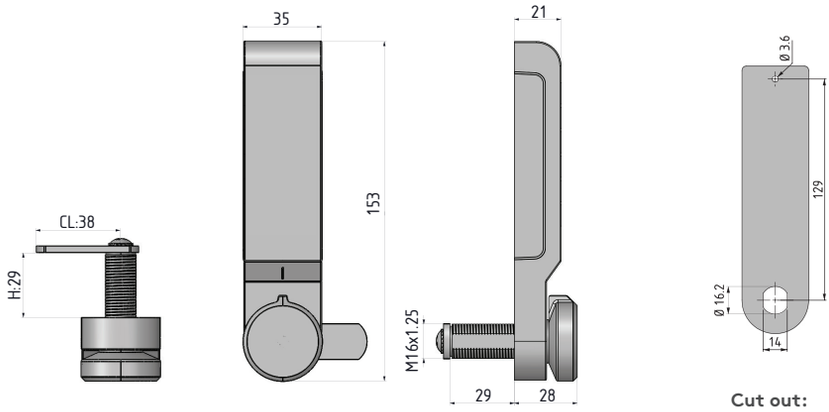
RFID Card
13.56Mhz MIFARE - Standard ISO14443A

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

Technical specifications

• Operating voltage:	3x1.5 V = 4.5 V
• Battery:	3xAAA Alkali 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





Cut out:

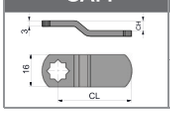
- Ability to open with a RFID card without key
- Elegant design suitable for office environments
- Multi-user support
- Micro USB emergency power-supply
- Low battery level indicator
- For general or specialised use
- Easy installation
- Easy to use
- High-security
- Burglar alarm
- Melody yes / no adjustment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

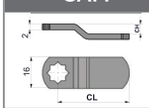
MATERIALS

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

⚠ These cams are shipping **with product.**

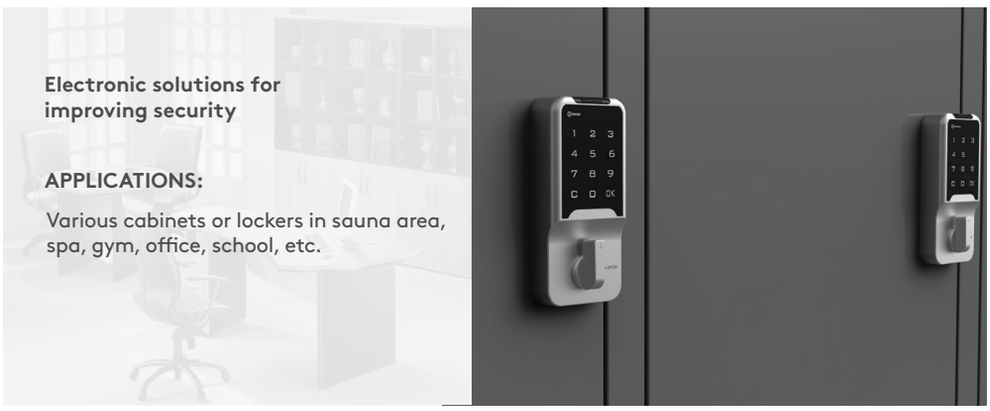
⚠ For another cam options you can **order seperately** from table.

CAM	ITEM CODE	CH	CL
	30405782	0	38
	30405781	5	37

CAM	ITEM CODE	CH	CL
	31403011	0	33
	30403157	3	48
	30403125	7	40

ELECTRONIC CABINET LOCK — 3211

Touch Panel



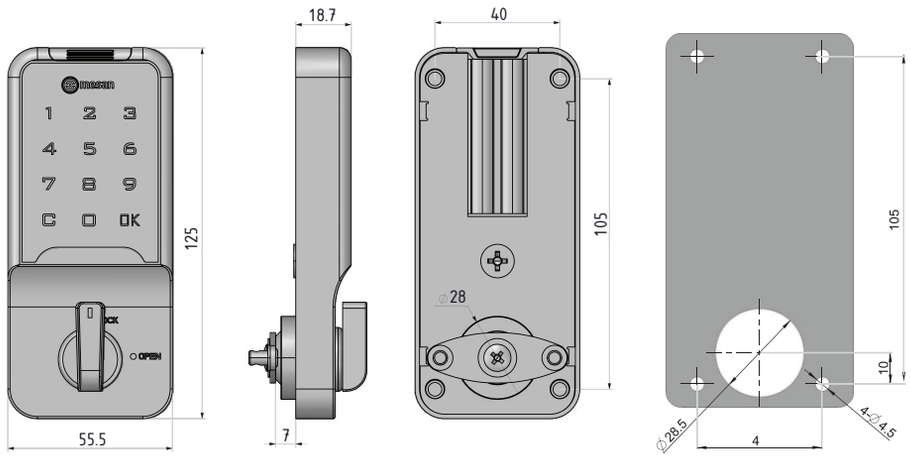
- Ability to open with a password without card and key
- Elegant design suitable for office environments
- When the password has been forgotten, it is possible to remote control and USB-Key for solving the password
- Micro USB emergency power-supply
- Low battery level indicator
- For general or specialised 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

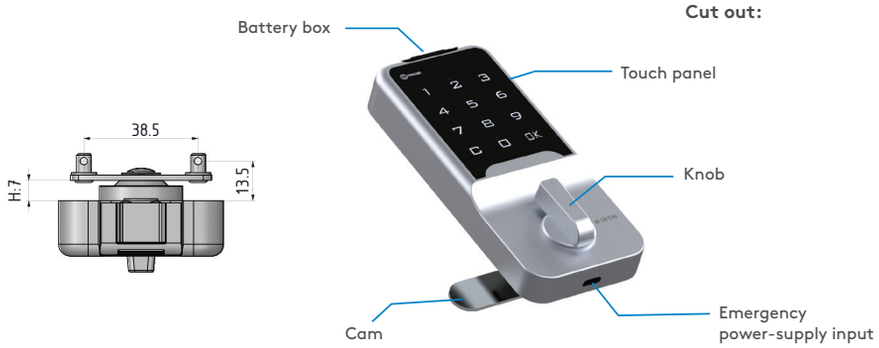
MATERIALS

BODY:	Aluminium
HANDLE:	Aluminium
CAM:	Steel

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

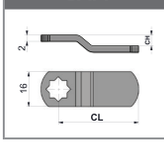




Note:
Instructions for use, installation dimensions, etc. More information is available in the instruction book with the lock.

⚠ Product will be shipped with **Espagnolette cam** appears in technical drawing.

⚠ For another cam options you can v from table.

CAM	ITEM CODE	CH	CL
	30403124	0	43
	31403011	0	33
	30403157	3	48
	30403125	7	40

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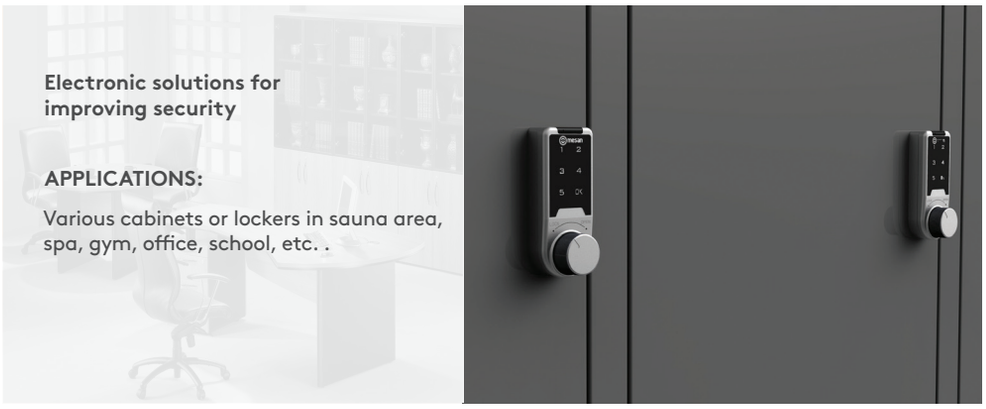
Touch Panel

3212 ELECTRONIC CABINET LOCK



Electronic solutions for improving security

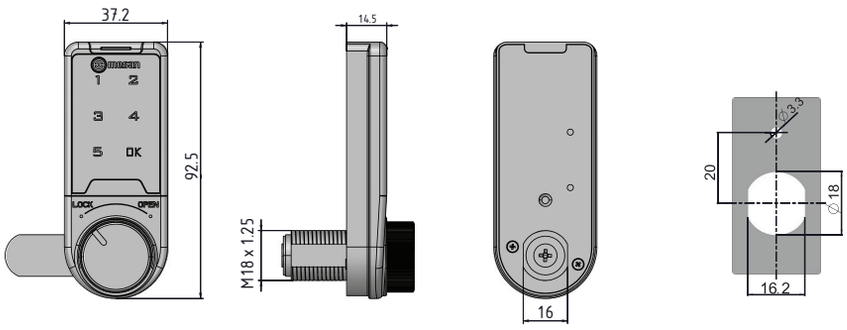
APPLICATIONS:

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

- 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

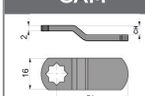


LH
20
30

MATERIALS

BODY:	Aluminium
HANDLE:	Aluminium
CAM:	Steel

CAM	ITEM CODE	CH	CL	CC
	30403877	0	40	00

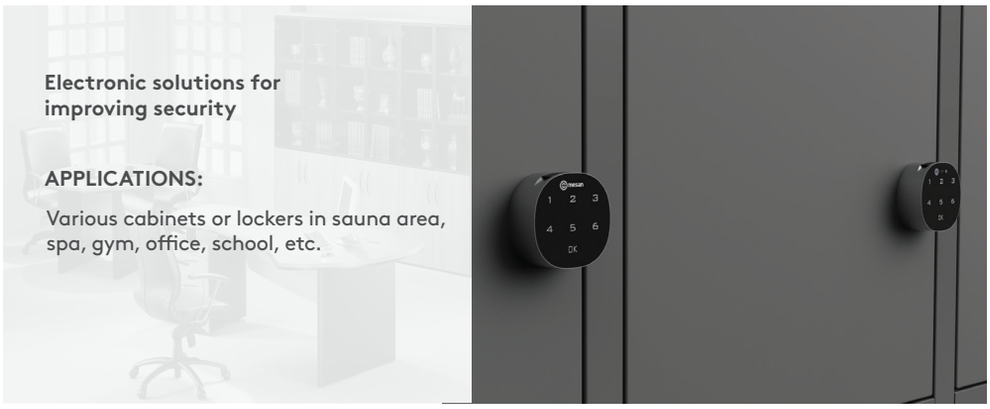
CAM	ITEM CODE	CH	CL	CC
	31403011	0	33	30
	30403157	3	48	57
	30403125	7	40	51

Group Code	Housing Length	Cam
3212	LH	CC

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

ELECTRONIC CABINET LOCK — 3213

Touch Panel



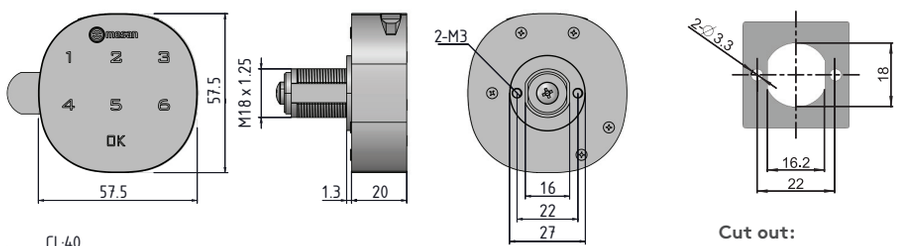
- Ability to open with a password without card and key
- Elegant design suitable for office environments
- When the password has been forgotten, it is possible to remote control and USB-Key for solving the password
- Micro USB emergency power-supply
- Low battery level indicator
- For general or specialised 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

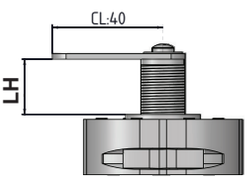
BODY:	Aluminium
CAM:	Steel

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

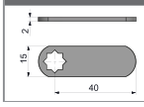


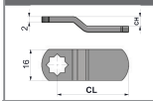
Cut out:



LH
20
30

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

CAM	ITEM CODE	CH	CL	CC
	30403877	0	40	00

CAM	ITEM CODE	CH	CL	CC
	31403011	0	33	30
	30403157	3	48	57
	30403125	7	40	51

Group Code	Housing Length	Cam
3213	LH	CC

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Touch Panel

3214 ELECTRONIC CABINET LOCK

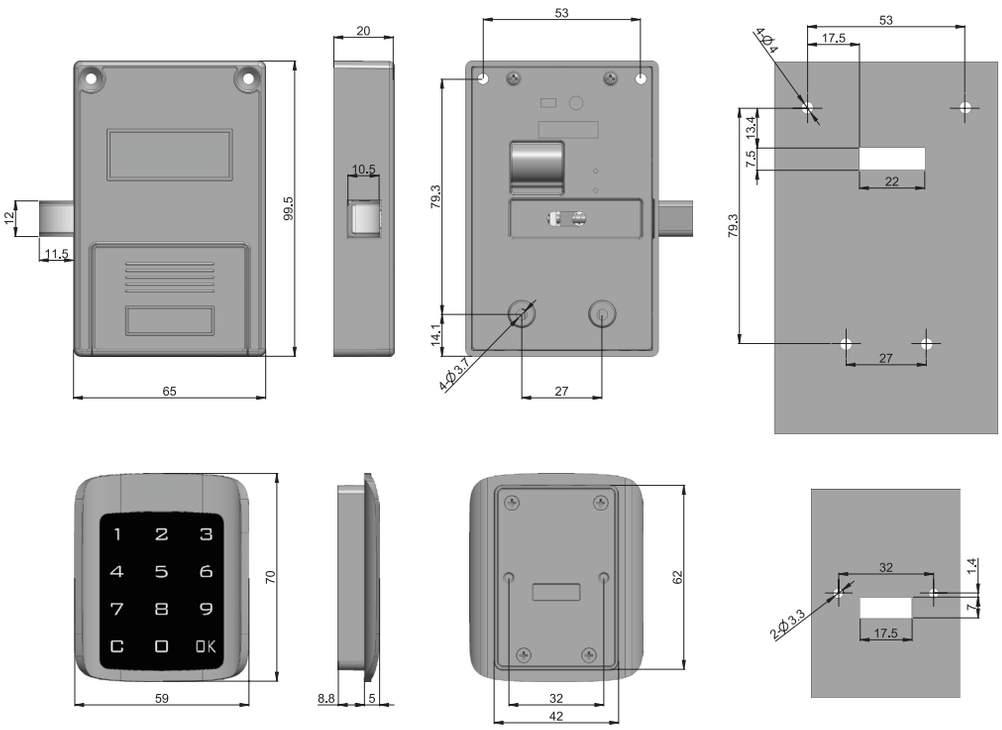
Electronic solutions for improving security

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



- 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:	Plastic
CAM:	Steel

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

ELECTRONIC LOCKING SYSTEM

ELECTRONIC CABINET LOCK — 3202

Keypad

Vertical

Horizontal

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
- 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

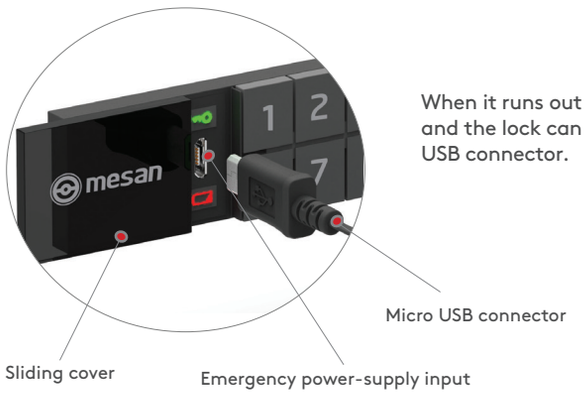
MATERIALS

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

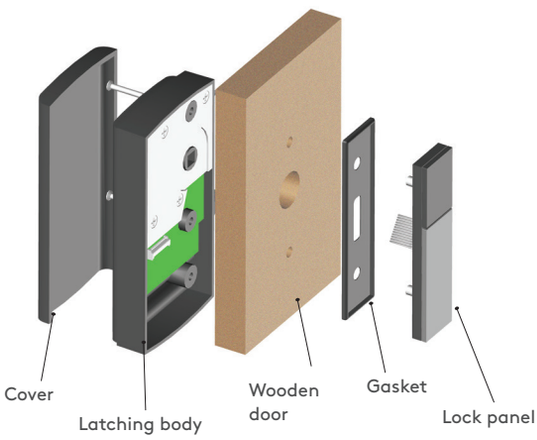
Note:
Instructions for use, installation dimensions, etc. More information is available in the instruction book with the lock.

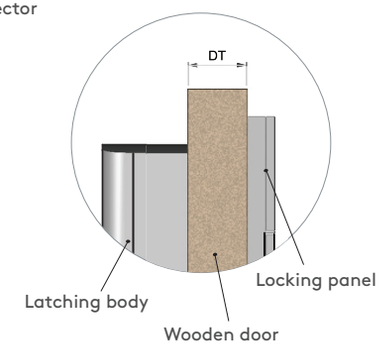
Technical specifications

• 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.





DT - DOOR THICKNESS	
Min	**Max**
11mm	27mm

For different door thicknesses please contact Essentra.

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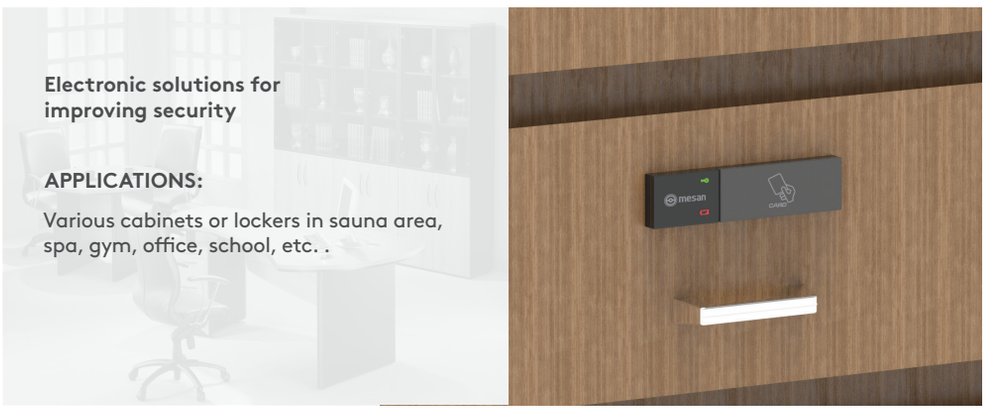
RFID Card Reader

3203 ELECTRONIC CABINET LOCK



Electronic solutions for improving security

APPLICATIONS:

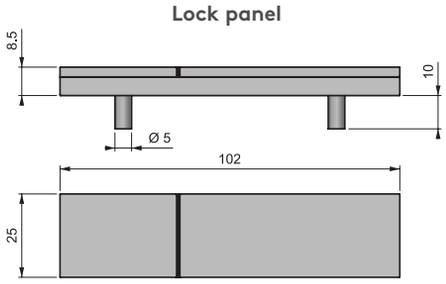
Various cabinets or lockers in sauna area, spa, gym, office, school, etc. .

Technical specifications

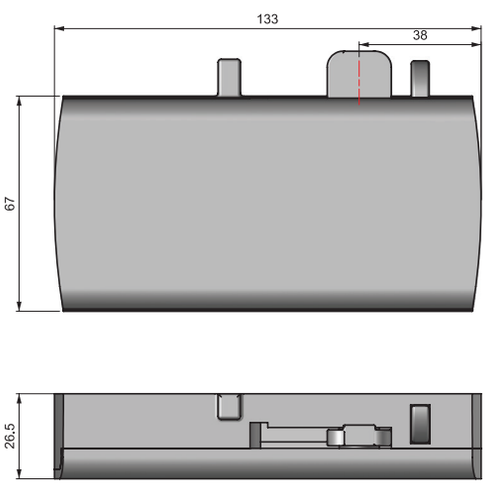
• Operating voltage:	3x1.5 V = 4.5 V
• Battery:	3xAA Alkali battery
• Battery life:	Approx. 1.5 year (daily 10 use)
• Card type:	RFID 13.56Mhz MIFARE - Standard ISO14443A
• Operating temperature range:	-15 ~ 55°C
• Operating humidity range:	0 ~ 90 % RH

External dimensions

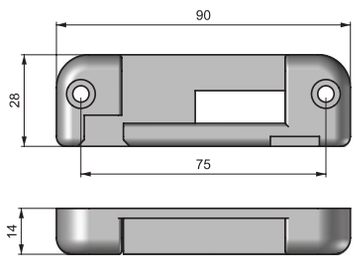
Lock panel



Latching body



Bracket



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

Group Code	Position
	P

POSITION	P
Horizontal	1
Vertical	2

Vertical

Horizontal

RFID Card
13.56Mhz MIFARE - Standard ISO14443A

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

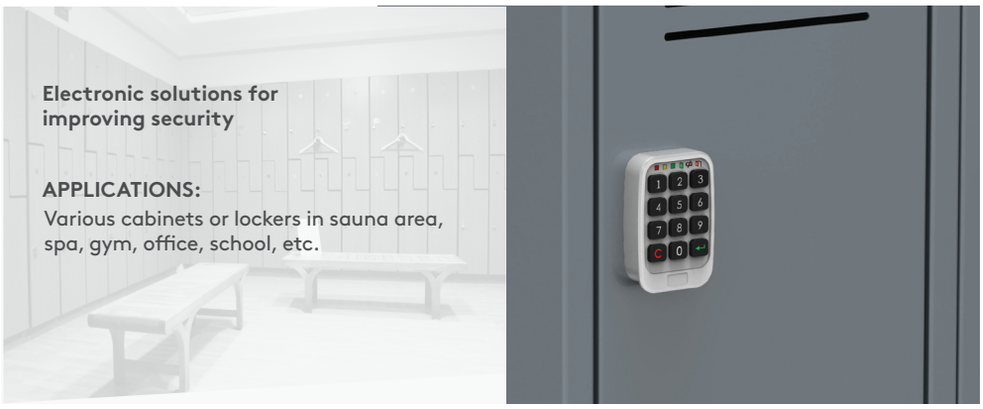
- Ability to open with a RFID card without key
- Elegant design suitable for office environments
- Multi-user support
- Micro USB emergency power supply input behind sliding cover
- Low-battery level indicator
- For general or specialised use
- Easy installation
- Easy to use
- High security
- Burglar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

MATERIALS

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

ELECTRONIC CABINET LOCK — 3201

Keypad



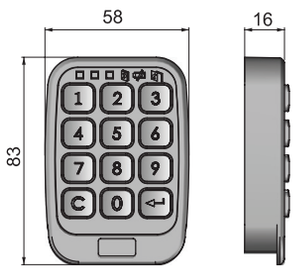
- Input password to open door; no need for card or key
- Two types:
  -- Public with temporary password
  -- Private with permanent password
- Two management levels: master code and user code
- Low power alarm: the lock will indicate when the battery has insufficient power
- Emergency open: external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

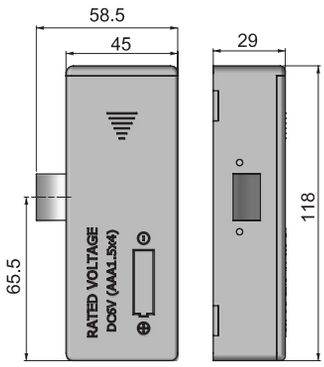
MATERIALS

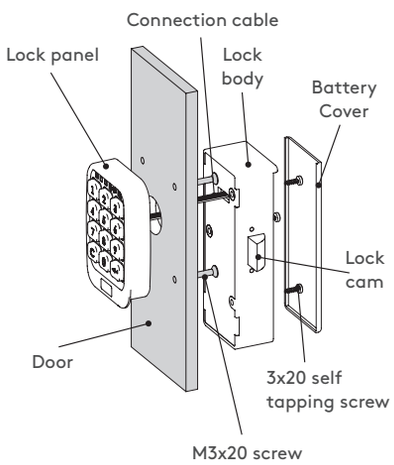
LOCK PANEL:	Zamak
KEYS:	Plastic
LOCK BODY:	Plastic
CAM:	Zamak

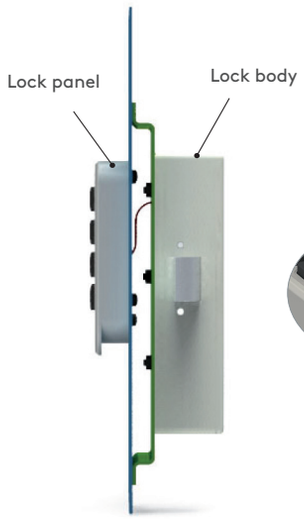
Technical specifications

Password digital:	>= 4, <= 10
Power source:	4 pcs AAA alkaline batteries
Static current:	<10uA
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 socket

External power supply
product code:
340.0.2643
(Order separately)

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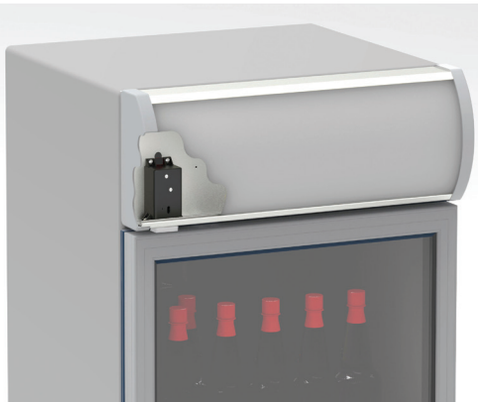
Remote Control

3301 ELECTRONIC CABINET LOCK

Electronic solutions for improving security

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 ~ +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 distance:	50 m (ideal conditions)

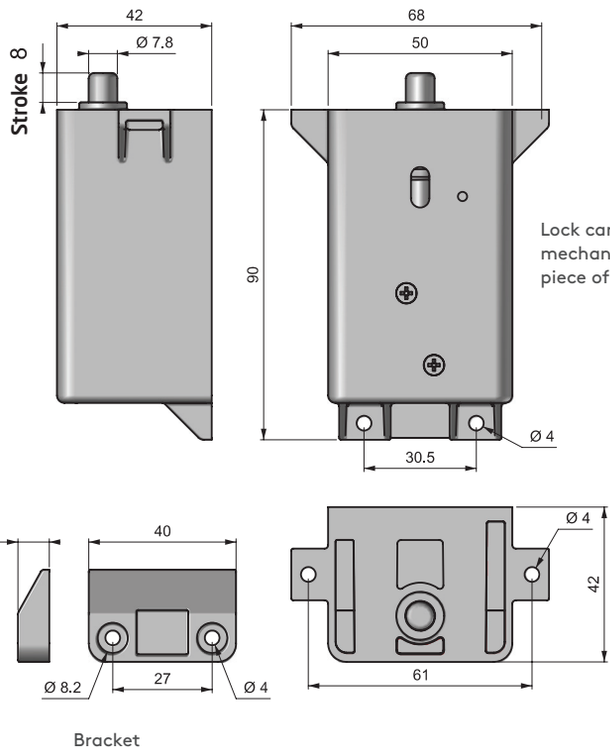
Master remote control

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

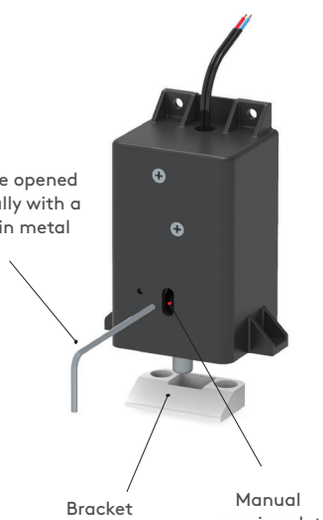
- Microprocessor controlled.
- Working voltage 220 V AC (with a special transformer)
- Open and close remote control
- Buzzer
- Manual opening slot in case of power outage
- New remote control identification with a master remote control
- More than one lock can be controlled by one remote control or vice versa
- More than one remote control can control one lock
- Stroke: 8 mm

MATERIALS

BODY:	Plastic
PLUNGER:	Steel
BRACKET:	Delrin



Bracket



Multidirectional application