



# ACCESS CONTROL

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Solicode is a series of code locks easy to mount. The code locks provide access control without complicated key management in premises that do not require high security.



## Stand Alone Reader / Code Lock

### PCR-40 Proximity reader



#### Application

SOLICARD PCR-40 the versatile compact proximity cardreader, PCR-40 is a code lock, stand-alone cardreader or an online cardreader. The compact and cost-effective proximity cardreader in a timeless design, with a built-in DAC interface for easy installation directly to LCU9016, 6416CE and 4000CE.

#### Features / Function

SOLICARD PCR-40 has clear back-lit symbols, such as green/red man, alarm status, enter code and show card.

SOLICARD PCR-40 is used on inside doors to prevent unnecessary passing, firstly on doors that don't demand a high security. Examples of such premises are locker rooms, internal storage, inside doors and office doors.

SOLICARD PCR-40 has built-in power that can deliver 12V 0,6A for problem-free control of electric strikes or electric locks.

SOLICARD PCR-40 can work as stand-alone and is then programmed directly via the keypad, or online which facilitate the authority administration.

With a SOLICARD PCR-40 you can always grow from the stand-alone reader to an online system with several thousands of doors. Without having to replace any reader.

The buttons have a distinct touch response. SOLICARD PCR-40 can also be used as a code lock and as an alarm bypass facility when it is part of a control unit with at least one DAC30 connected.

#### Indications

- Cardreader running/ready
- Door unlocked
- Common code/code lock function
- Card + PIN code
- Blocked for access
- Shows alarm status for alarm authorised card
- Invalid card

#### Material

- PC plastic with black sticker
- Halone and Halogen free
- Fulfill the requirements for IP54
- Stainless push buttons

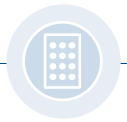
#### Technical specification

- Power supply: 12-24 V AC / V DC
- DC Out: 12 V DC 0,6 A
- To run electric lock
- Power consumption: 100 mA
- Weight: 0,5 kg
- Temperatur range reader: -20°C to +70°C
- Built-in DAC interface directly connected to LCU9016, 6416CE and 4000CE

#### Other

- Has a built-in tamper switch
- Lockable casing
- Cast base plate

CE controlled and approved in level with EN50081-1 and AEN50082-2.



## Compact Code Lock, Two Codes

### Solicode 190

#### Application

Solicode 190 is a compact code lock easy to mount. It provides access control without complicated key management in premises that do not require high security. The code lock is suitable for interior and exterior use. The code lock is preset for two 4- or 6-digit access codes that can be easily reprogrammed later by using the keypad.

#### Features / Function

The code lock features an automatic cancellation of opening time (1-999 sec.) at door opening, when an electric strike with a bolt contact is connected. The code lock is not dependent on continuous voltage, which enables supply through a time switch. Code 2 can be blocked e.g. via time switch. The buttons have a distinct touch response. The code lock has a lockable capsule, cast base plate and capsule of zinc alloy with white or black powder paint as standard.

#### Indications

- Programming mode
- Programming accepted
- Programming not accepted
- Invalid code block
- Unlocked door
- Key-pressing

#### Technical specification

- Voltage: 12 - 24 V AC / V DC
- Maximum current consumption: 210CL = 80 mA, 210DA = 110 mA
- Output, voltage or free relay closing: 1 A / 24 V



**CE** CE controlled and approved in level with EN50081-1 and AEN50082-2.



## Compact Code Lock with Lighting, Seven Codes

### SOLICODE 210



#### Application

Solicode 210 is a compact code lock for easy mounting. It provides access control without complicated key management in premises that do not require high security. The code lock is suitable for interior and exterior use. The code lock is preset for seven 4- or 6-digit access codes that can be easily reprogrammed later by using the keypad.

#### Features / Function

The code lock features an automatic cancellation of opening time (1-999 sec.) at door opening, when an electric strike with a bolt contact is connected.

Model 210DA has a duress alarm function.

The code lock is not dependent on continuous voltage, which enables supply through a time switch. There are seven 4- or 6-digit codes where codes 5 and 6 can be blocked through e.g. a time switch and code 7 can be time-limited from 1 to 9 days. The key pad is back-lit and the buttons have a distinct touch response. The code lock has a lockable capsule, cast base plate and capsule of zinc alloy with white or black powder paint as standard.

#### Indications

- Programming mode
- Programming accepted
- Programming not accepted
- Invalid code block
- Unlocked door
- Key-pressing

#### Material


- Cast zinc alloy with white or black powder coating as standard
- Stainless push buttons
- Other surface coatings as brass and chrome (frosted/silver) are available

#### Technical specification

- Voltage: 12 - 24 V AC / V DC
- Maximum current: 210CL = 80 mA
- Maximum current: 210DA = 110 mA
- Output, voltage or free relay closing

#### Miscellaneous

- Seven 4- or 6-digit codes
- Code 5 or 6 can be jointly blocked via e.g. time switch
- Code seven can be time limited from 1 to 9 days
- Invalid code block
- Duress alarm is a function in 210DA
- Lockable casing
- Cast base plate

 CE controlled and approved in level with EN50081-1 and AEN50082-2.



## Code Lock for Flush Mounting

### SOLICODE 211

#### Application

Solicode 211 is a compact code lock for flush mounting. The code lock provides access control without complicated key management in premises that do not require high security. Examples of this type of locations are locker rooms, interior storage rooms and entrance doors to apartment buildings.

The code lock is suitable for interior and exterior use. The push buttons have a distinct touch response.

Solicode 211 is a code lock in a flush-mounted box suitable for use in locations where there is an extreme risk for tampering.

#### Features / Function

The code lock features an automatic cancellation of opening time (1-999 sec.) at door opening, when an electric strike with a bolt contact is connected.

Cast zinc alloy box with front and push buttons of stainless steel. There are seven 4- or 6-digit codes where codes 5 and 6 can be blocked through e.g. a time switch and code 7 can be time-limited from 1 to 9 days.

The push button set can be installed in a panel frame instead of the standard box.

#### Indications

- Programming mode
- Programming accepted
- Programming not accepted
- Invalid code block
- Unlocked door
- "Key-pressed" indications

#### Material

- Stainless front
- Stainless push buttons
- Flush mounting case in zinc alloy

#### Technical specification

- Voltage: 12 - 24 V AC / V DC
- Maximum current: 210CL = 80 mA
- Maximum current: 210DA = 110 mA
- Output, current or clean contact relay 1 A / 24 V

#### Miscellaneous

- Seven 4- or 6-digit codes
- Code 5 or 6 can be jointly blocked via e.g. time switch
- Code seven can be time limited from 1 to 9 days (temporary access code)
- Invalid code block
- Lockable casing
- The keypad can be fitted in Panel frame 1 instead of the standard box



**CE** CE controlled and approved in level with EN50081-1 and AEN50082-2.



## DAC-20

### Application

The DAC-20 is designed for the SOLICARD 4000 and 6416 control units. Both systems have the same simple connection to the DAC-20 using 2-wire communication. The DAC-20 forms a communications hub at the door to which the lock, reader and exit switch can all be connected. By adding DAC-30RC it's possible to connect alarm, door automatics, time controlled outputs, etc. This approach allows the same basic solution, regardless of the type of door or equipment. 2-wire communication means fewer cables. This means that you only need 4 wires to connect the DAC-20 – two wires for the communication and two wires for the power supply. When serial motorlocks or permanent alarm bypass will be used, use DAC-30II.

### Technical specification

- Power supply: 17-24 V AC / V DC
- Max power consumption: 150 mA
- Weight: 330 g
- Temperature range: +5°C to +40°C (Non-condensing)
- Serial motorlocks and alarm bypass are not supported.  
For that purpose use DAC-30II

### Accessories

- DAC-30RC, Relay board with 4 programmable relays
- DAC-30AI, Double-balanced alarm interface for connection to external alarm
- Can not be connected to: SOLICARD 4000 and 6416 control units

### Casing

- Shock-resistant ABS-plastic SIS 166653
- Halogen/Halogenfree

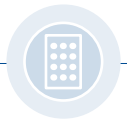
### Relay functions DAC-20 wide 30RC

- Time-controlled output
- Buzzer
- Temporary ABP (Alarm by-pass)
- Door automatics
- Door position
- Electric strike
- Temporary ABP which does not drop at door open to long
- Tamper
- Mirror blocking input in zone
- Balanced OUT/SAB

### Reader technology

- CL/DATA (Magnet), Wiegand, Solicell (Touch memory), Prox

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## DAC-30 II

### Application

The DAC-30 is used with our 4000, 6300 and ARX systems. Both systems have the same easy two-wire communication system. DAC-30 is a connection point as well as a door controller, intended to be fitted at each door. To the DAC-30 you then connect locks, readers, exit button, automatic door controllers etc. This provides for similar solutions regardless of the door type and equipment. Two-Wire communication means fewer cables, all you need is four wires to connect a DAC-30, two wires for the communication and two wires for the power supply. No separate motor lock controllers is necessary when connected to some models of Assa and Abloy motor locks since this functionality is already included in the DAC-30. Communication between the DAC-30 and the motor lock is encrypted in these cases providing for increased security.

### Technical specification

- Power supply: 12-24 V AC / V DC
- Max power consumption: 80 mA
- Temperature range: +5°C to +40°C (Non-condensing)

### Accessories

- DAC-30RC, Relay board with 4 programmable relays
- DAC-30AI, Double-balanced alarm interface for connection to external alarm
- Can be connected to: SOLICARD 4000CE and LCU9016

### Casing

- Shock-resistant ABS-plastic SIS 166653
- Halogen/Halogenfree

### Other

- Time-controlled output
- Buzzer
- Temporary ABP (Alarm by-pass)
- Automatic door controllers
- Door monitor switch
- Security mode (motor lock)
- Open mode (motor lock)
- Locked mode (motor lock)
- Electric strike
- Temporary ABP that remains active if door is open to long
- Tamper

### Reader technology

- CL/DATA (Magnet), Wiegand, Solicell (Touch memory), Prox



**CE** CE controlled and approved in level with EN50081-1 and AEN50082-2.



6390IF



6353KS

## SOLICARD 6390IF, 6353KS

### Application

SOLICARD 6390IF and SOLICARD 6353KS are two interfaces for connection of OEM readers such as magnet (clock/data), Wiegand (data-0/data-1) and Dallas to the Solicard system.

6390 I/F is a general interface that can be easily configured for a number of different reader modes.

6390 I/F is equipped with inputs for a 3x4 X/Y matrix keypad, sabotage switch, and outputs for six LED:s and a buzzer.

The 6353KS contains the same I/F as the 6390 I/F along with a keypad that makes it suitable for all applications where a OEM reader needs to be combined with a keypad.

For instance, a dallas or proximity reader that will be used for alarm manouvering or with PIN-code.

6353 KS has keys with a distinct touch response and backlit symbols, such as a green/red man, alarm status, enter code and swipe card. The 6353KS can also be used where only common code is required, as a code lock or as an alarm bypass device.

### SOLICARD 6390IF, Reader interface

- Magnet (Clock-data) for 6389MWL, 6383, 6320
- Wiegand (Data 0-data 1) for 6385 ( Indala)
- Dallas for 6370ST

### SOLICARD 6390IF, Technical specification

- Voltage: 12 V DC
- Power consumption: 10 mA + connected load
- Weight: 170 g
- Temperature range: -5°C to +70°C (Non-condensing)

### SOLICARD 6390IF, Casing

- White ABS-plastic

### SOLICARD 6353KS, Reader interface

- Magnet (Clock-data) for 6320
- Wiegand (Data 0-data 1) for 6385 ( Indala)
- Dallas for 6370ST

### SOLICARD 6353KS, Technical specification

- Voltage: 12 V DC
- Power consumption: 70 mA + connected load
- Weight: 895 g
- Temperature range: -30°C to +70°C (Non-condensing)

### SOLICARD 6353KS, Casing

- IP54
- Cast zinc alloy with white or black powder coating
- Stainless steel push buttons
- For special surface finish (gold or chrome), contact Solid

CE controlled and approved in level with EN50081-1 and AEN50082-2.



## SOLICARD RCE-16

### Application

RCE-16 is a relay control unit adapted for the 6416.

The relay control unit can be used with Solicard 6416HS, which is an elevator control program and with Solicard 6416PB, which is a post box program.

It is also possible to use it in shop fittings where you have a need to control locked display cases, mail boxes in the apartment building market and offices and in locker rooms in e.g. public swimming baths.

RCE-16 consists of 16 LED indicated relays with selectable potential free switching contacts between NO/NC, the selection is made with jumper links.

It has a built-in tamper switch and four diodes indicating the status of the RCE-16.



### Technical specification

- Power supply: 12 - 24 V AC / V DC
- Current consumption with 24 V DC is 11 mA
- Current consumption with 12 V DC is 16 mA
- Load when all relays are used in RCE-16 170 mA with 24 V and 300 mA with 12 V
- Relay max load 1 A (24 V)
- Operating temperature +5°C - + 40°C

### Casing

- Shock-resistant ABS-plastic SIS 166653
- Halogen/Halon free plastic

### Indications

- TX - Green indication (Transmits data to the control unit)
- RX - Orange indication (Receives data from the control unit)
- PWR - Yellow indication (Power)
- ALLIVE - Blue indication (Works)

### Other

- Fulfill the requirements for IP44

**CE** CE controlled and approved in level with EN50081-1 and AEN50082-2.



## SOLICARD ARX LCU9016

### Application

Area of use is office, hotels, public buildings with high secure requirements. The local central unit in the ARX-family that is connects directly to the TCP/IP network. The LCU can control up to 16 doors/32 card readers. The LCU is based on the Linux operating system, has flash memory and can easily be adapted to many future requirements. LCU9016 will integrate seamlessly in the network and take advantage of existing DNS and DHCP servers.

SOLICARD ARX LCU9016 is equipped with memory to handle over 100 000 cards and over 1000 schedules, day-types and other settings. A separate log-event memory can store more than 30 000 log-events.

The LCU's can work stand alone in the case of a network failure. Card holders will get access to doors according to normal rules and log events are stored locally. When the network comes back up the stored log events are transmitted to the server automatically. All communication to the server uses PKI certification for authorization and SSL encryption for data protection, which is the same level of security that Internet banks are using.

### Function

In the base configuration the LCU is equipped with one loop card for four doors, which each can have two card readers /in/out/ and an open-button. Fully equipped with 4 loop cards 16 doors can be controlled.

- Memory with battery backup
- Real time clock with calendar
- Event buffer with capacity to store >30 000 events
- Memory for 100 000 cards with individual PIN codes
- > 1 000 schedules
- Additional functions: Alarm arm/disarm, disabled (extra time for open door), officer function (authority to permanently unlock door)
- SNMP based supervision

### Technical specification

- Power supply: 17 - 28 V AC or 17 40 V DC
- Weight: 3,0 kg
- Temperature range: +5°C to +40°C

### Accessories

- Loop card 4014LC, 4 doors
- Relay card 6416RC, 4 relays where 3 are software controlled
- Transformer ST60S
- Battery backup 245PS

### Controlled by

- PC with Windows 2000/XP

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## SOLICARD PCR-30

### Application

PCR-30 can control both electric strike and electrical lock. By the control unit connection you simplify the administration of the authorities.

The buttons have a distinct touch response. PCR-30 can also be used as a code lock and as an alarm bypass facility when it is part of a control unit with at least one DAC connected.

The reader contains a DAC interface allowing it to be connected directly to the control units 4000CE, 6416CE and LCU9016.

### Indications

- Cardreader running/ready
- Door unlocked
- Common code/code lock function
- Card + PIN code
- Blocked for access
- Shows alarm status for alarm authorised card
- Invalid card

### Technical specification

- Power supply: 12 - 24 V AC / DC
- Weight: 0,5 kg
- Temperature range reader: +5°C to + 70°C
- DC Out 12 V DC 0,6A
- Power Consumption 100 mA
- Built-in DAC interface Directly connected to LCU9016, 6416CE, 4000CE

### Material

- PC plastic with black sticker
- Halon and Halogen free
- Fulfill the requirements for IP54
- Stainless push buttons

### Other

- Has a built-in tamper switch
- Lockable casing
- Cast base plate



**CE** CE controlled and approved in level with EN50081-1 and AEN50082-2.



## SOLICARD 6485PL

### Application

SOLICARD 6485PL is a proximity reader with a backlit keypad and interface. The reading distance is approx. 5-10 cm. 6485PL is equipped with clear backlit symbols, such as green/red man, alarm status, enter code and present code carrier. Both cards and tags exist as code carriers. Both types are passive, i.e. they don't contain any batteries. The tags are practical since they can easily be placed on a keyring. The cards are combicards, which means that they include both the proximity technology and a magnetic stripe making it possible to use it in a magnetic cardreader connected to the same system or another magnetic system. The 6485PL is mainly used for convenience and is suitable for both indoor and outdoor use, since it fulfils the IP54 demands. The buttons has a distinct touch response and the digits are backlit. 6485PL can also be used as an alarm bypass device or as a code lock. It is preferably used in environments such as garages and offices and in public premises. The reader contains an interface allowing it to be connected directly to a control unit/door controller in the 4000 and 6000 systems.

### Function

l the

### Material

- White Pc plastic with black sticker
- Halon and Halogen free
- Fulfill the requirements for IP54

### Technical specification

- |                      |                  |
|----------------------|------------------|
| • Power supply:      | 12 V DC          |
| • Power Consumption: | 100 mA           |
| • Card PLK1/PLK2     | 20°C < > +55°C   |
| • TAG PLT            | -30°C < > +100°C |

### Accessories

- 6160RS Rain cover

### Can be connected to

- SOLICARD 4000 and 6000 system. Demands no 6390IF/6355KS interface, connected directly to Solicard

CE controlled and approved in level with EN50081-1 and AEN50082-2.

