
Assembly and operating instructions

DOM AccessManager

EDV-Nr. 29.78.25. / 0 / gb / 10.11 / Version 1.4

Contents

- SCOPE OF DELIVERY 3**
- FOR YOUR SAFETY 4**
- IMPORTANT INFORMATION 4**
- ASSEMBLY..... 5**
 - Configuration DOM AccessManager Compact.....14
 - Configuration DOM AccessManager HiSec16
 - Configuration DOM AccessManager HiSec + 2 DOM passive readers21
- PUTTING INTO OPERATION 22**
 - Initialize device22
 - Setting the contact-keeping time.....23
- OPERATION 24**
 - Status messages25
 - Open and close.....25
 - Create locking or programming media26
 - Delete locking or programming media.....27
 - Delete all locking or programming media.....28
- STATUS MESSAGES AND SIGNAL SEQUENCE..... 29**
 - Power supply ok. (basic state):29
 - Recognising an authorised transponder29
 - Recognising an unauthorised transponder:.....29
 - Continuously open mode.....30
 - Continuously closed mode31
- PROGRAMMING AND MANAGING USING SOFTWARE 32**
- MAINTENANCE 33**

STORAGE/MAINTENANCE 33

DISPOSAL 33

TECHNICAL DATA..... 34

DOM AccessManager34

WARRANTY..... 38

DRILLING TEMPLATE 41

Scope of delivery

DOM AccessManager Compact in DOM design

Casing with integrated control system and reader

DOM AccessManager HiSec in DOM design

Casing with integrated control system and reader

+ 1 casing with DOM passive reader (maximum 3 readers possible)

As an option, the housings are also available in Siedle design.

Additionally available components

- Master card
- Programming card
- Transponder
- Continuously open card/Tac, continuously closed card/Tac
- Screw set surface frame with:
 - 4 Spax screws 3x25, cross-recessed pan head,
 - 4 washers and 4 pegs S4 each

Components required which are not supplied by DOM:

- customary outlet sockets, unless on-wall mounting with surface socket.

For your safety

Always comply with the instructions and security statements.

In this assembly and operating instructions, several sections are marked by graphical symbols. Please memorise the graphical symbols and their meanings:



Caution! This symbol marks a danger note and/or refers to an action that may cause damage to the DOM AccessManager, the DOM Passiv Reader or other objects .



Note! This symbol refers to useful information on assembly or operation.

Important information



Caution! Keep the closing devices away from small children. They might swallow small parts.



Caution! Material damage caused through incorrect storage. If you store the DOM AccessManager or the DOM Passiv Reader for a longer period of time before assembly, store all components dry and dust-free in the original packaging.



Caution! Damage through inexpert assembly and operation. Please read these instructions completely and carefully before assembly and putting into operation. Follow the instructions step by step. The manufacturer accepts no liability for damage resulting from an inexpert assembly or operation.



Caution! DOM AccessManager and DOM Passive Reader must not be used in explosive areas.



Caution! Metallic materials nearby the DOM AccessManager and the DOM Passive Reader may become warm due to eddy currents generated by the reading area.



Caution! After a voltage breakdown, date and time must checked and adapted if required.



Caution! You can modify the configuration described in the following (page 11 to 18) in connection with the DOM ELS software only (version 3.1 or higher, from type identification 36 the minimum requirement is version 4.2). The standard configuration is set ex factory in all cases.

Assembly

Proceed in the described order and pay attention to the notes and illustrations.



Caution! Adhere to the VDE-regulations [association of German electrotechnicians] and the regulations of your local energy supply company.



Caution! Material damage caused by too strong tightening of screwed connections. Always comply with the specified torques.



Caution! If you want to operate the DOM AccessManager with one or several DOM passive readers via the RS485 interface, you have to connect one resistor (100Ω) to each of the terminals 4 and 5 of the last reader and of the control system for termination purposes (see figure 8 on page 8).



Note! For power supply of the DOM AccessManagers you need a stabilized, sufficient power supply of 12 V to 24 V/AC/DC which is not included in the delivered parts.



Note! When the DOM AccessManager and inductive loads (e.g. e-openers) are operated together, the maximum admissible electrical strength and current-carrying capacity of the ACM is to be observed. Voltage and current peaks caused by positive feedback effects may lead to the destruction of the unit. If this cannot be guaranteed, please provide a separate voltage supply.



Note! If you operate a DOM AccessManager that is able to read EM and Deister transponders, you need a software release V3.1R3 or higher to communicate with this device via the software. You will also need a PDA software V2.2 or higher.



Note! The DOM AccessManager and the DOM Passive Reader can be mounted at customary outlet sockets (dimensioned \varnothing 60 mm, depth 42 mm). In case of online-connection, an outlet socket, dimensioned \varnothing 60 mm, depth 63 mm should be used. If no outlet socket is available, you can use the surface frame of DOM to replace the outlet socket.



Note! In order to prevent manipulation attempts, the DOM AccessManager must be installed in the protected area in order that unauthorized persons have no access to the control.



Note! The reading areas of two Readers (DOM AccessManager or DOM Passive Reader respectively) can interfere with each other. Therefore, always install the units in sufficient distance (more than 50 cm) from each other to avoid interferences. A smaller distance can cause an authorized closing device to be recognized with delay.



Note! Metallic objects in the immediate neighborhood of the DOM AccessManager or the DOM Passive Reader respectively or other interference can reduce the range.



Note! The outlet socket has to be installed in such a way that the mounting frame can be mounted straight.



Note! When mounting the surface frame, take the drilling template from these instructions and mark the drill holes.



Note! Wiring and visualization/signalization of the configuration stored in the terminal (SPS) are described in the respective documentation. The following only explains the standard configuration ex works.

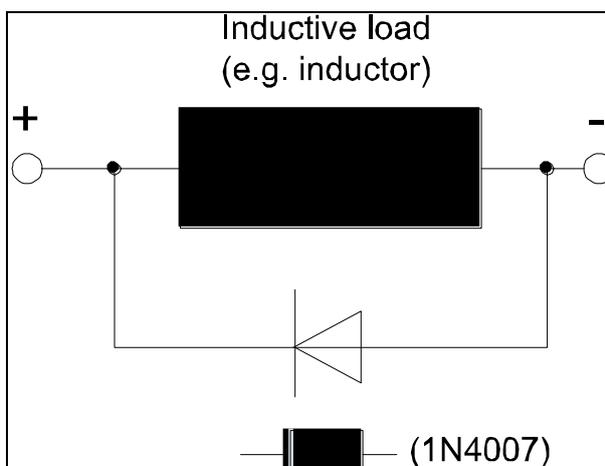


Note! Regarding access control systems you have to use special door openers with free wheeling diode.



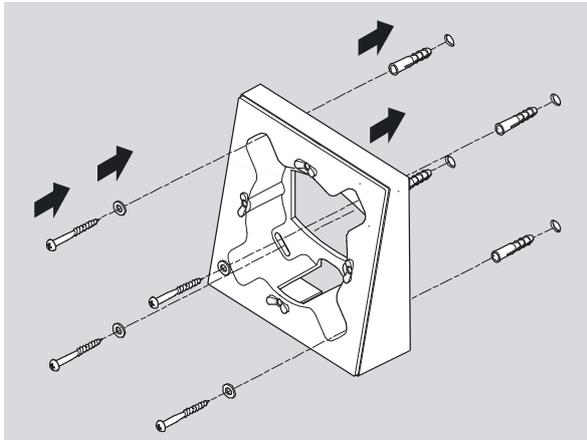
Note! When activating control elements which present an inductive load (inductor), e.g. door openers, magnetic clamps, etc., a free-wheeling diode is to be used with direct current supply.

The free-wheeling diode is to be inserted anti-parallel to the inductive load (see graphic).



Illustr. 1: Free-wheeling diode

1. Install all connecting cables first. The generally applicable regulations (VDE) have to be complied with for the installation.



Illustr. 2: Mount surface frame

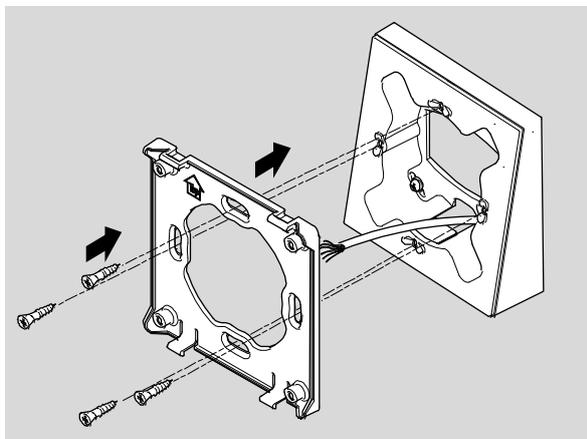
2. If you use the surface frame, drill the marked holes and position the pegs (S4).
3. Align the surface frame in such a way that the top edge also runs horizontally.
4. Fix the surface frame using the washers and the Spax screws (3x25).



Note! The direction of installation for the mounting frame is marked with an arrow. The arrow has to point to the top. The lock clamp points down.

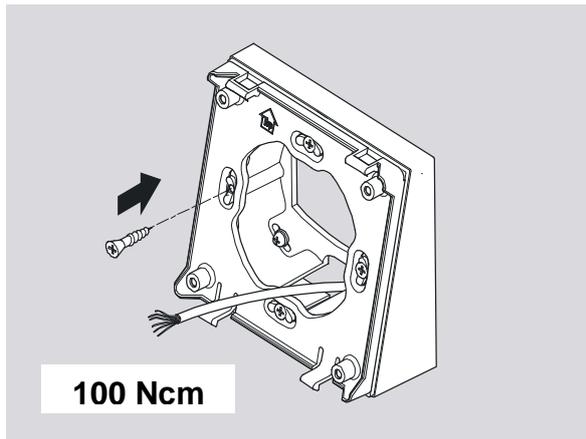


Caution! Material damage caused through too strong tightening of screwed connections. Always comply with the specified torques.



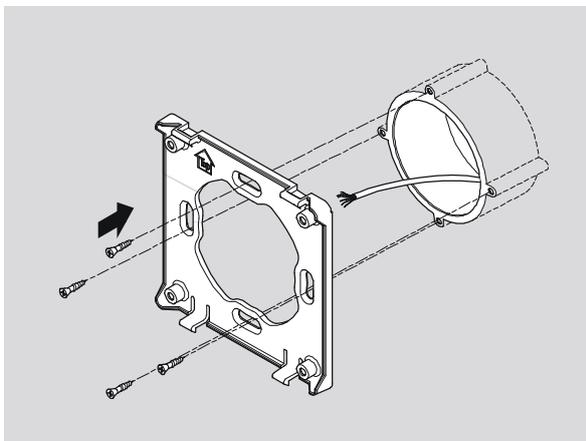
Illustr. 3: Mounting frame

5. Pass the connecting cables through the mounting frame.
6. Put the Spax screws into position (3x12) lightly at first.



Illustr. 4: Screw on the mounting frame

7. Align the mounting frame in such a way that the top edge is also aligned horizontally.
8. Tighten the Spax screws (100 Ncm).



Illustr. 5: Mounting frame

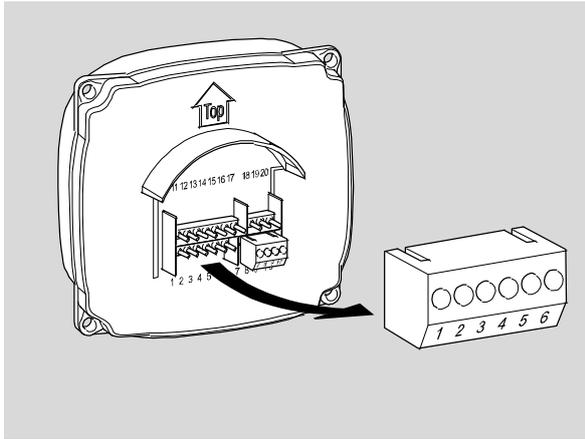
9. If you use an outlet socket, screw the mounting frame directly on the outlet socket using the Spax screws (3x12).



Note! The steps for the assembly of the DOM AccessManager, of the DOM Passiv Reader and the cover for the outlet socket and the surface frame are identical. In the following illustrations you will therefore only see the mounting frame.



Caution! Do not tighten the screws of the connectors as long as the connectors are plugged in. They might damage the contact pins.



Illustr. 6: Connector

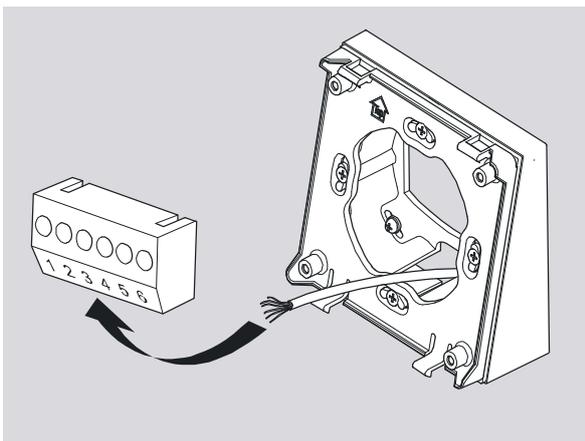
10. Carefully remove the plug-in connectors at the back of the electronics.



Caution! When selecting and connecting external components (actuators, etc.), comply with the values for the voltage sustaining capability and the current carrying capacity of the input and/or output of DOM AccessManager stated in the technical datasheet of these instructions. The manufacturer accepts no liability for damage caused through the use of unsuitable external components.



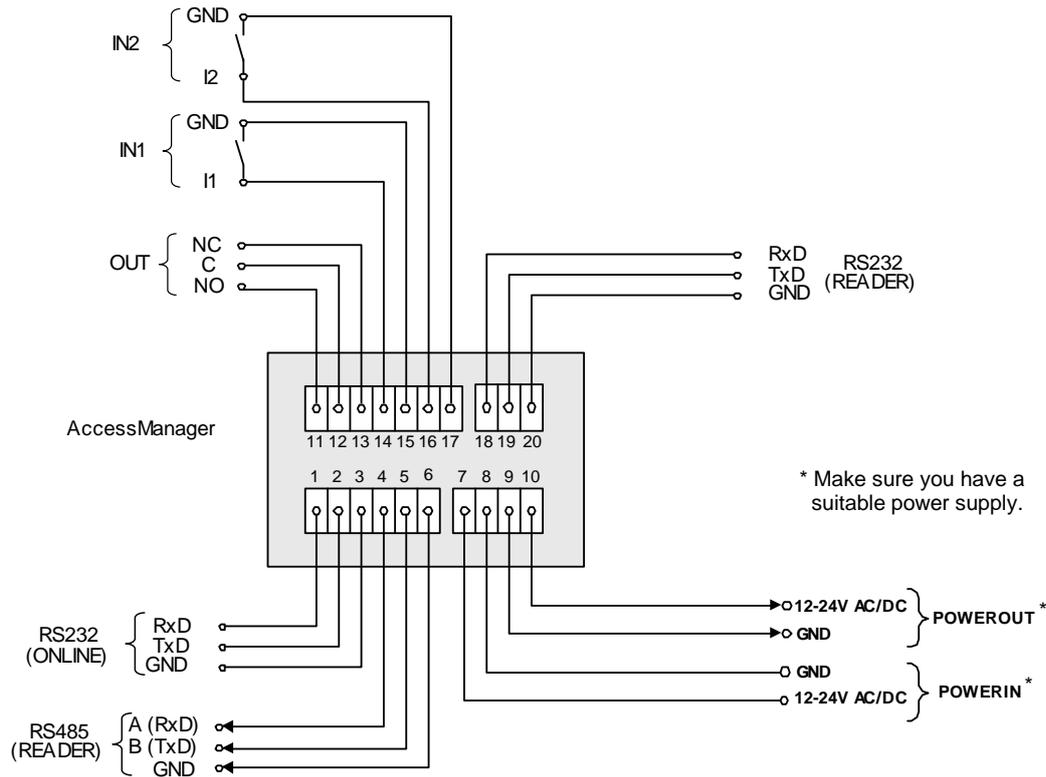
Note! When the DOM AccessManager and inductive loads (e.g. e-openers) are operated together, the maximum admissible electrical strength and current-carrying capacity of the ACM is to be observed. Voltage and current peaks caused by positive feedback effects may lead to the destruction of the unit. If this cannot be guaranteed, please provide a separate voltage supply.



Illustr. 7: Connect connecting cable

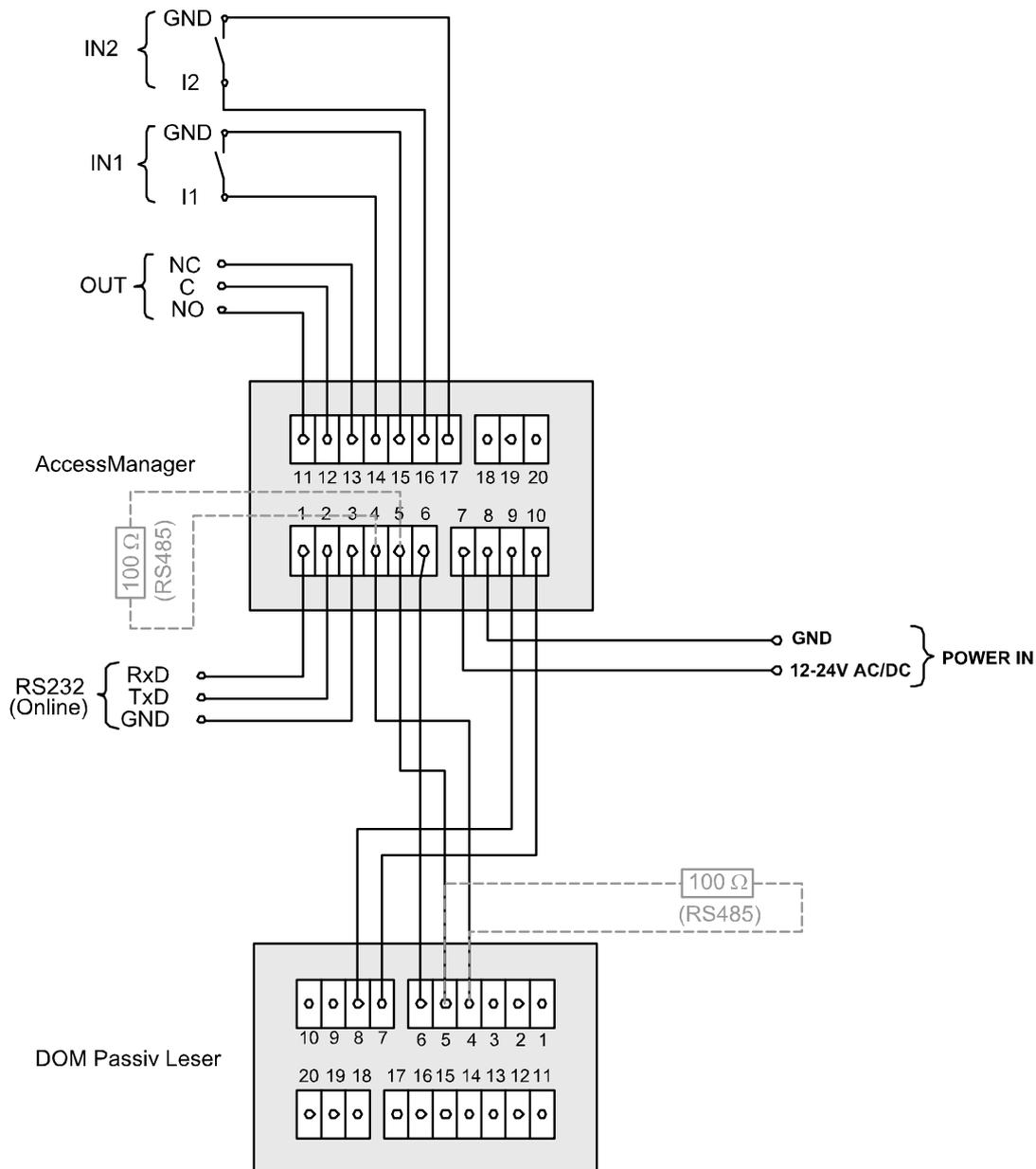
11. Loosen the terminal screws.
12. Remove the insulation from the ends of the cables: cable coating 40 mm, individual core 5 mm.
13. Mount suitable connector sleeves.
14. Connect the connecting cables according to the wiring diagram below.
15. Tighten the terminal screw (50 Ncm).

For logging of events or generating a warning, a potential-free door contact switch may be connected, for example. Operations of this contact are logged in the event memory of the DOM AccessManager.



Illustr. 8: Wiring diagram for DOM AccessManager Compact

No.	Description	Function	
1	RxD_a	Receive RS232	Online connection (DOM NetManager/PC)
2	TxD_a	Transmit RS232	
3	GND_a	Ground for RS232	
4	RxD_b	Receive RS485 A	Connection reader ↔ control unit
5	TxD_b	Transmit RS485 B	
6	GND_b	Ground for RS485	
7	12-24 V	Voltage supply	Voltage Supply
8	GND	Voltage supply	
9	GND	External voltage	
10	12-24 V	External voltage	
11	S	Normally open contact, output	Output (change-over contact)
12	C	Common contact, output	
13	Ö	Normally closed contact, output	
14	I1	Input 1	2 potential-free outputs, e.g. door contact or release key
15	GND	Input 1	
16	I2	Input 2	
17	GND	Input 2	
18	RxD_c	Receive RS232	Connection reader « control unit
19	TxD_c	Transmit RS232	
20	GND_c	Ground for RS232	



Illustr. 9: Example of wiring diagram for DOM AccessManager HiSec via RS485

The addressing of actuators (door opener etc.) by the DOM AccessManager is made via a potential-free relay change-over contact. The connections are labeled NO, NC and C. A potential-free normally closed contact (C-NC) and a potential-free normally open contact (C-NO) are provided.

You can connect potential-free switches or pushbuttons to the inputs.

These inputs must be used in accordance with the given SPS configuration. Ex works, standard configuration is set. In this case, the input IN1 is the door contact (normally closed contact) and the input IN2 is the release key (normally open contact).



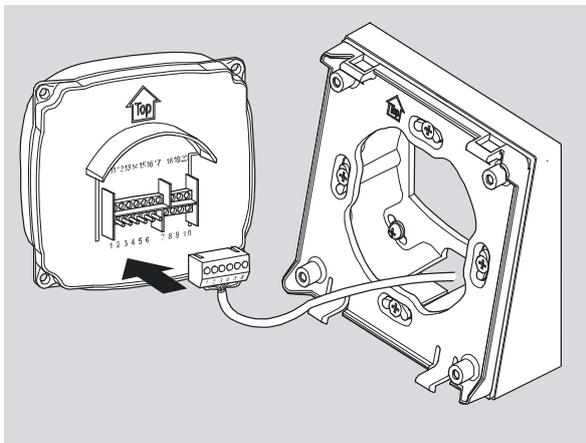
Caution! If you want to operate the DOM AccessManager with one or several DOM passive readers via an RS485 interface as shown in our example, you have to connect one resistor (100Ω) to each of the terminals 4 and 5 of the last DOM passive reader and of the control unit.



Caution! Before continuing the assembly, check all connections once again. System components may get damaged through an incorrect wiring.



Note! The direction of installation for the DOM AccessManager and the DOM Passiv Reader is marked with an arrow. The arrow has to point to the top. After the installation, the light-emitting diodes are on the right-hand side respectively.

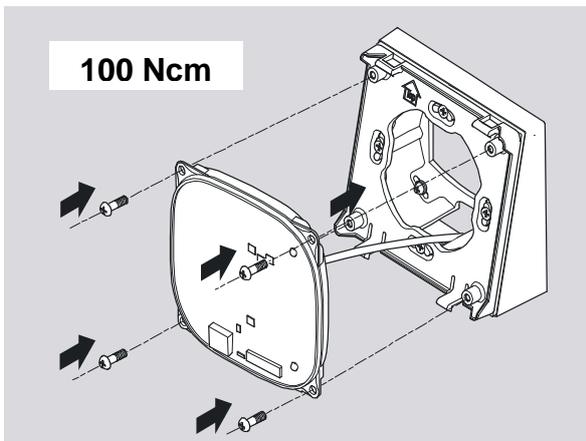


Illustr. 10: Contactor

16. Fit the contactor(s) accurately on the contact pins.



Caution! Material damage caused through disconnected cables or pulled-out connectors. Make sure that the cables are stowed away carefully and without drawing them in the outlet socket and/or the surface frame.



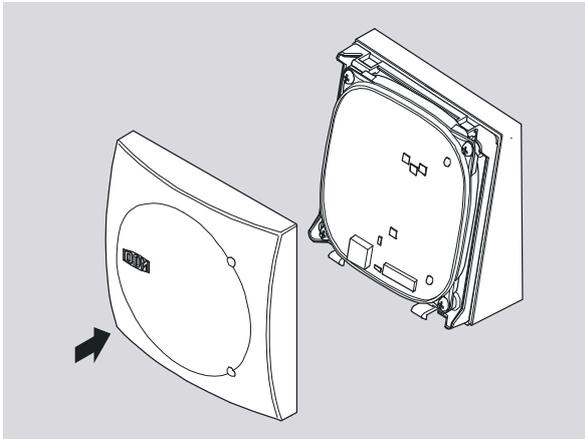
Illustr. 11: Screw on electronics

17. Place the electronics on the mounting frame.

18. Fix the electronics on the mounting frame (100 Ncm) using the pan head screws (3x8).



Note! Locking it in place is facilitated if you carefully push back the locking brackets of the mounting frame (e.g. with a screwdriver).



Illustr. 12: Cover wall-mounted casing

19. Place the cover on top and lock it in place exerting a slight pressure.

If you want to take off the cover later on, carefully push back the two locking brackets (e.g. using a screwdriver) and remove the cover from the mounting frame. The remaining components are dismantled in reverse order to the assembly.

Configuration DOM AccessManager Compact

Standard configuration

Connection of inputs/outputs:

- Input 1 = door contact (normally closed contact)
- Input 2 = external door contact (release key/normally open contact)
- Output = potential-free relay change-over contact (e.g. for addressing of the actuator)

Description

In idle state the red LED is permanently lit. Upon presentation of an authorized transponder, the red LED switches off and the green LED and the buzzer are activated.

The output remains activated for contact holding period (cf. also page 23) as set via master ID card. Upon delivery it is set to 3 s. During this time, the green LED is permanently lit.

The output and the permanent lighting of the green LED are either switched off after expiry of the contact holding period or by operating/opening the door contact. Afterwards the red LED will be permanently lit again.

If the external door contact is operated, signaling and activation of the output corresponds to the presentation of an authorized transponder.

If during open door contact a release is initiated using an authorized transponder or external door release, the function is switched off after expiry of the contact holding period.

If a door is not locked after a period to be set, an alarm is generated (the red LED will be permanently lit and the acoustic signal will be emitted until the door is closed again).

The time frame for the alarm and the switching on and off of this alarm is set via software (PC, PDA). Upon delivery, the warning is deactivated.

4-eyes-principle

Configuration of the inputs and outputs:

- Input 1 = door contact (normally closed)
- Input 2 = external door opening contact (release pushbutton/normally open)
- Output = potential-free relay changeover contact (e.g. to actuate the control element)

Description

During standby the red LED lights permanently. If two optional authorised transponders are shown subsequently in a time window X, the red LED goes out and the green LED and the buzzer are actuated. The time window can be set by means of the software.

The output is actuated for the contact holding time set via the master ID card (see also page 23). At the time of delivery this is set to 3 seconds. During this time the green LED lights permanently.

The output respectively the permanent lighting of the green LED either are deactivated by the contact holding time expiring or by the door contact being opened/operated. Afterwards, the red LED returns to permanent illumination.

If the external door opening contact is operated, the output is signalled and actuated in the same manner as if two authorised transponders would have been shown.

If, with the door contact being open, a release is generated via authorised transponders respectively external door release, the function will be terminated upon expiry of the contact holding time.

If, during a time to be set, the door is not closed after having been opened, an alarm message will be generated. (The red LED lights permanently and the signalling sound is issued permanently as well, until the door is closed.)

The time window for the alarm message, as well as for the alarm being activated/deactivated is specified by means of the software (PC, PDA). The warning message is deactivated at the time of delivery.

Configuration DOM AccessManager HiSec

Standard configuration

Connection of inputs/outputs of the DOM AccessManager:

Input 1 = door contact (normally closed contact)

Input 2 = external door opening contact (release key/normally open contact)

Output = potential-free relay change-over contact (e.g. for addressing of the actuator)

Connection of inputs/outputs of the DOM Passive Reader:

Input 1 = not in use

Input 2 = not in use

Output = potential-free contact for addressing the actuator when the warning "door open for too long" is generated

Description

In idle state the red LED is permanently lit. Upon presentation of an authorized transponder, the red LED switches off and the green LED and the buzzer are activated.

The output remains activated for contact holding time (cf. also page 23) as set via master ID card. Upon delivery this is set to 3 s. During this time, the green LED is permanently lit.

The output and the permanent lighting of the green LED are either switched off after expiry of the contact holding period or by operating/opening the door contact. Afterwards the red LED will be permanently lit again.

If the external door contact is operated, signaling, visualization and activation of the output corresponds to the presentation of an authorized transponder simultaneously at both units.

If during open door contact a release is initiated using an authorized transponder or external door release, the function is switched off after expiry of the contact holding period.

If a door is not locked after a period to be set, an alarm is generated (the red LED will be permanently lit at both units and the acoustic signal will be emitted by both units until the door is closed again).

The time frame for the alarm and the switching on and off of this alarm is set via software (PC, PDA). Upon delivery, the warning is deactivated.

The transponder can be read by both units.

The output at the Reader is activated when the warning "door open for too long" is generated.

4-eyes-principle

Configuration of the inputs and outputs:

Input 1 = door contact (normally closed)
Input 2 = external door opening contact (release pushbutton/normally open)
Output = potential-free relay changeover contact (e.g. to actuate the control element)

Configuration of the inputs and outputs of the DOM passive reader:

Input 1 = not used
Input 2 = not used
Output = potential-free contact to actuate the control element, if the warning message "door open too long" is generated

Description

During standby the red LED lights permanently. If two optional authorised transponders are shown subsequently at one reader in a time window X, the red LED goes out and the green LED and the buzzer are actuated. The time window can be set by means of the software.

The output is actuated for the contact holding time set via the master ID card (see also page 23). At the time of delivery this is set to 3 seconds. During this time the green LED lights permanently.

The output respectively the permanent lighting of the green LED either are deactivated by the contact holding time expiring or by the door contact being opened/operated. Afterwards, the red LED returns to permanent illumination.

If the external door opening contact is operated, the output is signalled and actuated in the same manner as if two authorised transponders would have been shown.

If, with the door contact being open, a release is generated via authorised transponders respectively external door release, the function will be terminated upon expiry of the contact holding time.

If, during a time to be set, the door is not closed after having been opened, an alarm message will be generated. (The red LED lights permanently and the signalling sound is issued permanently as well, until the door is closed.)

The time window for the alarm message, as well as for the alarm being activated/deactivated is specified via the software (PC, PDA). The warning message is deactivated during delivery.

Personal count

Configuration of the inputs and outputs:

Input 1 = door contact

Input 2 = external door opening contact (release pushbutton)

Output = potential-free contact to actuate the control element

Configuration of the inputs and outputs of the DOM passive reader:

Input 1 = not used

Input 2 = not used

Output = potential-free contact for messages “number reached” or “number = 0”.

Description

Persons who entered at the reader are counted.

Persons showing an authorised transponder to the reader of the control system are subtracted from the number.

The output on the reader is activated when a specified number is reached or when a value of 0 is reached.

The actuation time of the output on the reader is specified by means of the software.

The actuation time of the output on the control system may be set optionally by means of the software or the master ID card.

At the time of delivery, both outputs are set to 3 seconds.

Setting/resetting the number of persons is possible by means of the software only (PC/PDA).

Anti-pass back

Configuration of the inputs and outputs of the control system:

Input 1 = door contact

Input 2 = external door opening contact (release pushbutton)

Output = potential-free contact to actuate the control element

Configuration of the inputs and outputs of the DOM passive reader:

Input 1 = not used

Input 2 = not used

Output = potential-free contact for the message "error during anti-pass back"

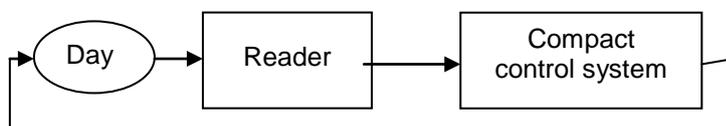
Description

The basic functionality is similar to the standard configuration.

If a transponder is shown at the reader, the same is registered and stored to the locking scheme.

Now, this transponder has to be shown at the reader of the control system first, before it re-gains access to the reader.

The error message "error during anti-pass back" is generated, if a transponder has been shown to the same reader twice.



Intrusion detection system (EMA)

Configuration of the inputs and outputs of the control system:

Input 1 = feedback unavailability EMA:
unavailability complied with = contact closed
unavailability not complied with = contact open

Input 2 = feedback status EMA activated/deactivated:
feedback status activated = contact closed
feedback status deactivated = contact open

Output = relay as pulse to activate/deactivate the EMA

Configuration of the inputs and outputs of the DOM passive reader:

Input 1 = not used
Input 2 = not used
Output = not used

Description

The pulse-activated PLC intrusion detection system serves for activating/deactivating the intrusion detection system depending on the fact if the status of the unavailability is complied with or not complied with and if the EMA is activated or deactivated.

The intrusion detection system is actuated via the relay output of the DOM AccessManager by means of an authorised transponder at the DOM AccessManager or the connected DOM passive readers.

With the pulse-activated PLC intrusion detection system you may activate or deactivate the intrusion detection system from four different activation readers (DOM AccessManager with a maximum of 3 DOM passive readers).

If an authorised transponder is shown at one of the four activation readers, the remaining activation readers are deactivated as regards to reading authorised transponders.

The DOM AccessManager serves as activation device for the intrusion detection system and has to be installed in the secured area.

The DOM passive readers serve as activation readers only and do not have any switching assignments via the output relay and thus may be installed in the unsecured area.

In basic state, the red and the green LED to display the function of the DOM AccessManager and the DOM passive readers light permanently.

The activation/deactivation is implemented by means of showing an authorised transponder twice at the DOM AccessManager or at a connected DOM passive reader.

Further information regarding the pulse-activated PLC intrusion detection system can be found in the intrusion detection system manual (SPS06).

Configuration DOM AccessManager HiSec + 2 DOM passive readers

Lock function

Configuration of the inputs and outputs of the control system:

Input 1 = door contact door 1

Input 2 = external door opening contact (release pushbutton) door 1

Output = potential-free contact to actuate the control element at door 1

Configuration of the inputs and outputs of the DOM passive reader L1:

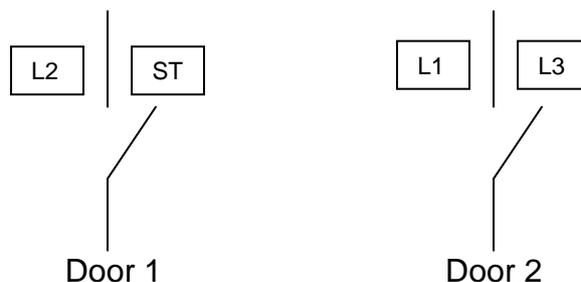
Input 1 = door contact door 2

Input 2 = external door opening contact (release pushbutton) door 2

Output = potential-free contact to actuate the control element at door 2

Description

General design:



A release at the Compact control system, as well as at reader 2 is only possible, if door 2 is closed. If there is a release at the control system or at reader 2 and if door 2 is closed, the output on the control system will be actuated for the time set by means of the master ID card or the software.

A release at the readers 1 and 3 is only possible, if door 1 is closed. If there is a release at the readers 1 or 3 and if door 1 is closed, the output on reader 1 will be actuated for the time x set by means of the software.

At the time of delivery, the actuation time of the relay on reader 1 and of the relay on the control system is set to 3 seconds.

Using input E0, door 1 may be released at any time by means of the release pushbutton. Using input E2, door 2 may be released at any time by means of the release pushbutton.

If an authorised transponder is shown and if the opposite door is not closed, a warning message is issued (buzzer sounds for 2 seconds + red LED flashes for 2 seconds).

Putting into operation

After having connected all cables in a workmanlike manner, you can put DOM AccessManager into operation.



Caution! In order to put the DOM AccessManager into operation, you only need the master card. It is used to set the system information. This is a one-off process that has to be carried out and is **not reversible**.



Note! Programming using the master and programming cards is carried out on the DOM AccessManager. All status messages and acknowledgements are carried out exclusively via the DOM AccessManager for this reason.

Initialize device

Proceed with the following steps.



Note! As soon as the power supply has been switched on, DOM AccessManager is ready for operation.

The control unit is fitted with a real-time clock used for example to generate events and to manage time zones (only if the ELS or ELS4PDA software is used). In the case of a power failure, the clock continues to run correctly for 48 hours, provided that the DOM AccessManager has been permanently supplied with power for at least one hour before the power failure.

Check time and date in the case of a voltage drop.

1. Switch on the power supply: Switching on the power supply the green LED lights up for a short while, and an acoustic signal is generated. Then the red LED is illuminated permanently.
2. Hold the master card directly in front of the DOM AccessManager (approx. 1 cm): The green light emitting diode flashes short twice and long once. At the same time, first two short signals and then one long signal are generated. Then the red LED is illuminated permanently again.



The DOM AccessManager has been taken into operation.



Note! If the red LED flashes three times and afterwards lights red in a permanent manner, date and time are set improperly or another error has been detected by the firmware.

Keep the master card in a safe place that can only be accessed by authorised persons. The master card has no closing device function. If the master card gets lost, you have to contact your dealer. An expensive new programming process becomes necessary.

Setting the contact-keeping time



Note! In the state of delivery, the contact keeping time is set to 3 seconds. You can change this time to a value between 1 and 25 seconds.

Proceed with the following steps:

1. Please hold the master card flat and with a little distance in front of the DOM AccessManager. Remove the master card. Presenting the card will be confirmed by the green LED flashing twice and by two signalling sounds at the same time.
2. Now, again please hold the master card in front of the DOM AccessManager and keep the master card in the detection field of the DOM AccessManager: the green LED again flashes twice and you will hear two signalling sounds. Afterwards, the green LED starts flashing approximately every second. At the same time a signalling sound will sound every second. Every signalling sound means one second of the contact holding time.
3. Please maintain the master card in front of the DOM AccessManager in accordance with the desired contact holding time.
4. Remove the master card as soon as the contact holding time has been reached: the green LED will flash twice and you will hear two signalling sounds to confirm the aforementioned. Afterwards, the red LED returns to permanent illumination.

You can repeat this process at any time.



Note! When the maximum contact holding period is exceeded, the programming process is cancelled and the contact holding period remains at the previously set duration. You will have to repeat the process in this case.

Setting the contact-keeping time

				keep in detection field			
Maintain in the detection field							
					
As soon as the contact holding time is reached, remove the master card.							

Operation

Now you can use the master card to create programming cards with which closing devices can be created on the other hand.



Note! The master or programming cards do not serve as closing devices.

Master card

The master card has the following functions:

- Create and delete individual closing devices, programming cards and programming devices;
- Delete all closing devices, programming cards and programming devices at the same time;

Programming card

The programming card has the following functions:

- Create and delete individual closing devices;
- Delete all closing devices.

Closing device (key rings, Clip Tac, card, etc.)

- Close and open.

Continuously open card/Tac

The continuously open card has the following functions:

- Set electronics in continuously open position;
- Reset electronics in the normal state;
- Change from position continuously closed to continuously open.

Continuously closed card/Tac

- Set electronics in continuously closed position;
- Reset electronics in the normal state;
- Change from position continuously open to continuously closed.

Status messages

Programming using the master or programming card is carried out on the DOM AccessManager. All status messages and acknowledgements are therefore carried out exclusively via the DOM AccessManager.

Acknowledging aborts

In general, if the defined time frame (removal or presentation of master or programming card and closing device) are not adhered to in the programming process, a cancellation occurs. Such a cancellation is confirmed by two short acoustic signals and two flashes of the red LED.

Open and close

In order to open or to close, you only have to hold an authorised closing device at a small distance (1 cm) in front of the DOM AccessManager or the DOM Passiv Reader.

Create locking or programming media

You will need the master respectively programming card and the media you want to create.



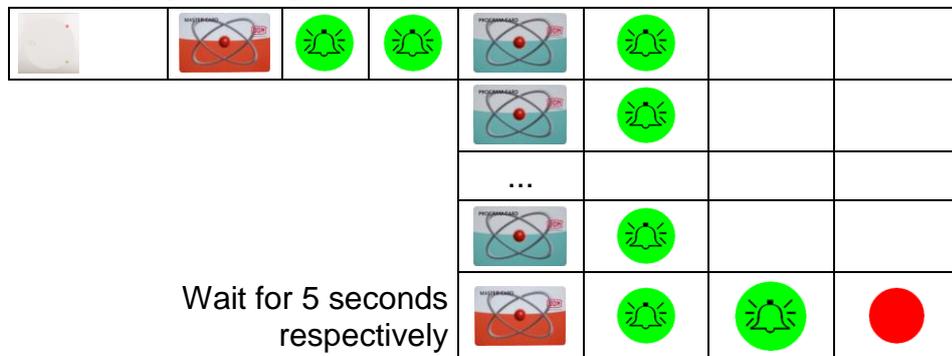
Note! In the basic version you can create 5 programming cards and 5 PDAs or PCs at a maximum. The number of locking media you may create depends on the transponder management system. When you have created a programming card you may implement the remaining programming procedure with the programming card as well.

Please follow the following steps:

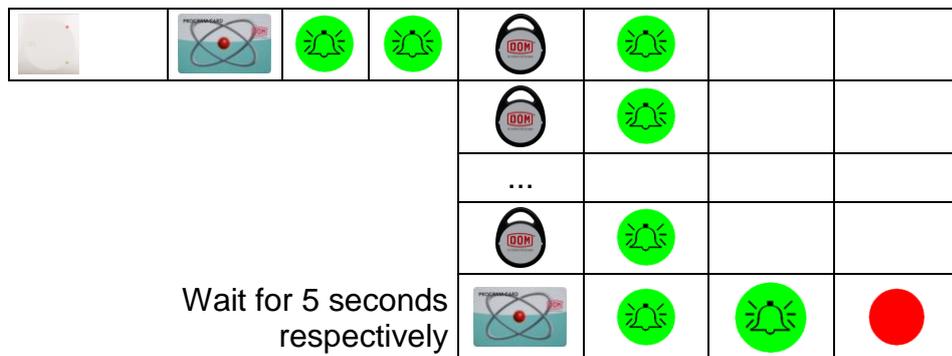
1. Please hold the master respectively programming card flat and with a little distance in front of the DOM AccessManager: remove the master card. The card having been shown will be confirmed by the green LED flashing twice and two signalling sounds.
2. Afterwards, please show the programming media respectively transponders to be created in a consecutive manner: the presentation of each programming medium respectively transponder will be confirmed by the green LED flashing once and one signalling sound. Afterwards, the red LED returns to permanent illumination.

The programming procedure will be terminated after a break of 5 seconds or by showing the master respectively programming card.

Create programming media:



Create locking media:



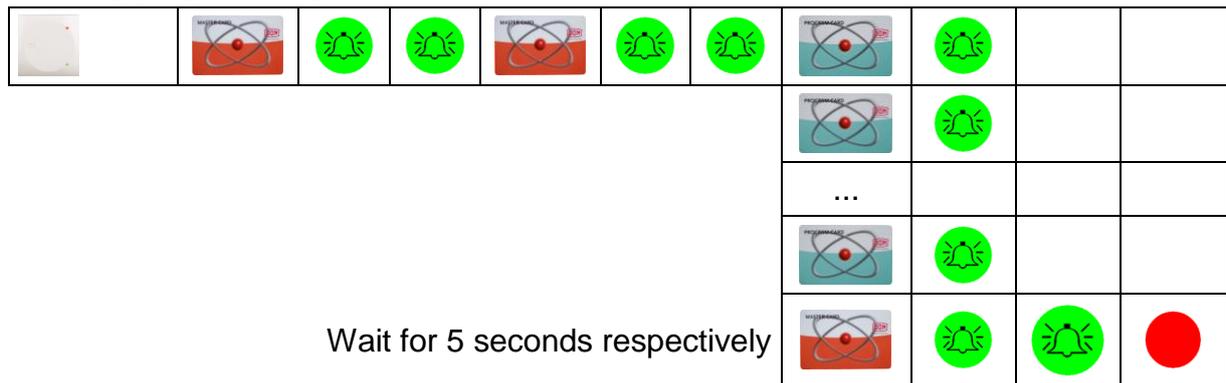
Delete locking or programming media

You will need a master respectively programming card and the media you want to delete.

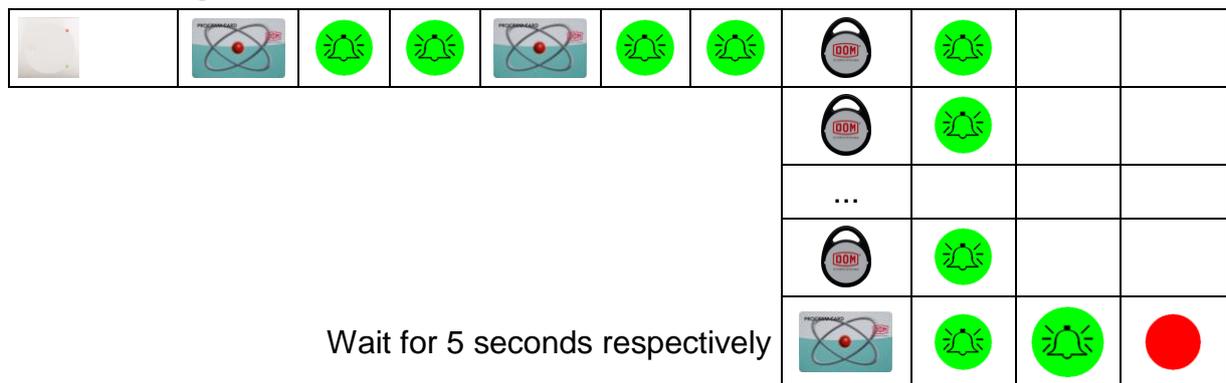
Please follow the following steps:

1. Please hold the master respectively programming card flat and with a little distance in front of the DOM AccessManager twice and remove the master respectively programming card each time: the presentation will be confirmed by the green LED flashing green twice and by two signalling sounds.
2. Afterwards, show the programming media respectively the transponders to be deleted in a consecutive manner: each programming medium respectively transponder being shown will be confirmed by the green LED flashing once and one signalling sound. Afterwards, the red LED returns to permanent illumination.

Deleting programming media:



Delete locking media:



Delete all locking or programming media

In case you have lost a locking medium, you no longer are able to delete this locking medium separately (without ELS-/ELS4PDA software). In this case you have to delete all locking media and re-create the ones that are still there.

For this, you will need one programming card only.



Note! If you use the master card instead of the programming card, all programming media will be deleted in addition.

Please follow the following steps:

1. Please hold the master respectively programming card flat and with a little distance in front of the DOM AccessManager twice and remove the master respectively programming card: this will be confirmed by the green LED flashing twice and two signalling sounds in each case.
2. Please hold the master respectively programming card flat and with a little distance in front of the DOM AccessManager for the third time and remove the master respectively programming card: this will be confirmed by the green LED flashing twice and you will hear one short and one long signalling sound.

All locking respectively programming media have been deleted. Upon termination of the programming procedure, the basic state is set again. Afterwards, the red LED returns to permanent illumination.

Delete all locking media:



Delete all locking and programming media:



Note! Now, you have to re-create the locking media that still have an authorisation (see page 23).

Status messages and signal sequence

After having completed programming, you can use your DOM AccessManager.



Note! Make yourself familiar with the signal sequence described in the following in order to be able to inform yourself on the operating state of your DOM AccessManager.



Note! Signalization/Visualization about whether an authorized/unauthorized closing device has been presented is made at the relevant unit.

Signalization and Visualization at the units (AccessManager and Passive Reader) depends on the configuration given in the AccessManager (SPS). Signalization/visualization of the standard configuration is described below:

Power supply ok. (basic state):

The red LED is illuminated permanently.

	Control unit	Passive reader

Recognising an authorised transponder

The make or break contact is being controlled. The green LED is lit for the duration of the contact holding period set. Signalization is realized at the unit where the transponder was presented.

The green LED lights in accordance with the contact holding time and you will hear a signalling tone.

	Control unit	Passive reader

Recognising an unauthorised transponder:

Signalization is realized at the unit where the transponder was presented.

The red light emitting diode goes out once.

	Control unit	Passive reader

Continuously open mode

You can clear the DOM AccessManager and the DOM Passiv Reader permanently using a continuously open card/Tac. As long as this mode is active, all persons have access, no matter whether they have an authorised transponder or not.



Note! In order to be able to use the permanently-open-mode, you have to show the permanently-open-card/Tac in accordance with the description on page 23.

How to set the Permanently-open mode

Hold the authorized Permanently-open card/Tac directly (1 cm) in front of the DOM AccessManager or a connected DOM Passive Reader.

An acoustic signal is generated. The red LED is switched off and the green LED will be permanently lit.

	Control unit		Passive reader	
				

How to reset the Permanently-open mode

Hold the authorized Permanently-open card/Tac again in front of the DOM AccessManager or a connected DOM Passive Reader.

You will hear a beep and the green LED switches off. Control electronic returns to its normal state. Subsequently the red LED is permanently lit.

	Control unit		Passive reader	
				



Note! If you have set the Permanently-open mode, you can use the Permanently-closed card/Tac to directly switch to the Permanently-closed mode. You do not switch back to normal mode.



Note! If there is a voltage breakdown when the Permanently-open mode is activated, the DOM AccessManager resets to normal mode of operation. After voltage supply is reestablished, the Permanently-open mode is no longer activated and you have to set it again.

Continuously closed mode

You can lock the DOM AccessManager and the DOM Passiv Reader permanently using a continuously closed card/Tac. As long as this mode is active, persons who have an authorised transponder are also denied access.



Note! In order to be able to use the permanently-closed-mode, you have to show the permanently-closed-card/Tac in accordance with the description on page 23.

How to set the Permanently-closed mode

Hold the authorized Permanently-closed card/Tac directly (1 cm) in front of the DOM AccessManager or a connected DOM Passive Reader.

An acoustic signal is generated. The red LED is switched off and the green LED flashes once. Subsequently the red LED is permanently lit.

	Control unit						Passive reader					
												

How to reset the Permanently-closed mode

Hold the authorized Permanently-closed card/Tac again in front of the DOM AccessManager or a connected DOM Passive Reader.

You will hear a beep and the green LED flashes once. Control electronic returns to its normal state. Subsequently the red LED is permanently lit.

	Control unit		Passive reader	
				



Note! If you have set the Permanently-closed mode, you can use the Permanently-open card/Tac at the DOM AccessManager or the DOM Passive Reader respectively to directly switch to the Permanently-open mode. You do not switch back to normal mode.



Note! If there is a voltage breakdown when the Permanently-closed mode is activated, Permanently-closed function remains active. After voltage supply is reestablished, the Permanently-closed mode is reactivated automatically.

Programming and managing using software

The DOM AccessManager is provided with a RS232 interface and an infrared interface. These interfaces can be used to exchange data with a PC or Laptop and a PDA.

If you are provided with ELS software (version 3.1 or higher) you can choose to manage and program your DOM AccessManager online. You can manage transponders and authorizations and further functions which are only accessible via software. These include, among others:

- Selection and assignment of other functionality (SPS), e.g. antipassback, 4 – eyes method, people counter
- Switching on or off of the warning
- Setting of SPS parameters like contact holding period, duration of warning etc.
- Resetting the antipassback state of one or all transponders
- Creating and deleting of connected DOM Passive Reader
- Querying of the DOM Passive Reader registered in the DOM AccessManager and of their status etc.
- Etc.

In addition, the use of the software offers more convenience and clarity for the management of larger systems, compared to the use of the master card.



Note! Instructions for programming and managing DOM AccessManager using the ELS Software are described in the operating instructions for the software

Maintenance

The DOM AccessManager and the DOM Passiv Reader are maintenance-free.

Storage/maintenance

If the DOM AccessManager and the DOM Passiv Reader are to be stored for a prolonged period of time before assembly or after use, store it dry and dust-free in the original packaging.



Caution! Material damage caused through the use of aggressive cleaners. Do not use any aggressive cleaners, graphite or oil. Only clean the casings and the closing devices using a smooth, moistened leather cloth without cleaners.

Disposal

Please note that DOM AccessManager and the DOM Passiv Reader partially consist of electronic components that have to be disposed of in a specific way. Always comply with all customary provisions for the protection of the environment when disposing of them.

You can also send the components of your DOM AccessManager and the DOM Passiv Reader in their original packaging back to the manufacturer.

Technical data



Note! The indicated technical data represent the latest status. Technical modifications reserved.

DOM AccessManager

Power supply:	<ul style="list-style-type: none"> external: 12-24 V AC/DC \pm 10%
Current consumption:	<ul style="list-style-type: none"> 250 mA (only for reader/control unit)
Time / Date:	<ul style="list-style-type: none"> buffering time after power failure: 48 hours at +20°C authorizations and events: at least 10 years clock drift at room temperature: \pm10 minutes/year at -20 and +65°C: -50 minutes/year
Interfaces:	<p>RS232-Interface for connecting DOM NetManagers or PC:</p> <ul style="list-style-type: none"> data rate: default 38400 Baud term 1: RxD term 2: TxD term 3: GND <p>RS485- Interface for connecting up to 3 external reader:</p> <ul style="list-style-type: none"> addressing: via Software function: half duplex data rate: default 38400 Baud term 4: A (receive) term 5: B (transmit) term 6: GND Termination RS485: term. 4 and 5 (100 Ω) <p>power supply:</p> <ul style="list-style-type: none"> term 7/8: power supply from external term 9/10: power supply for external devices <p>RS232-Interface for connecting one reader</p> <ul style="list-style-type: none"> term 18: RxD term 19: TxD term 20: GND data rate : default 38400 Baud
Connecting cable:	<p>recommended cable type: JY(St)Y 2 x 2 x 0,6</p> <p>maximum cable length: 15 m (RS 232) 500 m (RS 485)</p>
Inductive transponder interface:	<ul style="list-style-type: none"> reading range: up to 10 cm frequency: 125 kHz field strength in 10 m distance: < -6 dB μA/m in conformity with ETSI EN 300 330 Hitag transponders: Hitag 1, Hitag 2, Hitag S EM transponders: ¹ 4100, 4102, 4150, 4450 Deister ² <p>transponder types:</p> <ul style="list-style-type: none"> DOM Tac, DOM Clip Tac, ISO card transponder DOM ((o)) butler transponders with passive inlay other types have to be checked

¹ EM Transponder only with Devicetyp 34 and 36.

² Deister Transponder only with Devicetyp 34.

DOM AccessManager (continued)

Infrared-Interface:	<ul style="list-style-type: none"> • location: behind DOM-Logo • wave length :890 nm • angle: $\pm 24^\circ$ • data rate: 38400 Baud
Inputs control unit:	<p>2 inputs for floating switches:</p> <ul style="list-style-type: none"> • max. wire impedance: $< 10 \Omega$ • max. wire length: $< 20 \text{ m}$ <p>connected to screw-clamp:</p> <ul style="list-style-type: none"> • term 14/15: Input 1 • term 16/17: Input 2
Outputs control unit:	<p>1 floating change over contact: ³</p> <ul style="list-style-type: none"> • electrical strength: 30V DC 125V AC • current load: 1 A DC 0,3A AC <p>connected to screw-clamp:</p> <ul style="list-style-type: none"> • term 11: normally open contact (NO) • term 12: common contact (C) • term 13: normally close contact (NC)
Combination of In-/Output:	<p>logical and chronological combinations are possible; ⁴ for example: simple access-control (change-over contact)</p>
Signalling:	<ul style="list-style-type: none"> • 2 LEDs: red/green • buzzer
Programming :	<ul style="list-style-type: none"> • with Master-Card ; Programing -Card • with programming medium (PC, PDA) via Infrared or Online

³ In use of an actuator, which is an inductive load (coil) such as a door opener, magnet, etc. make use of a freewheeling diode (DC power supply system only). The freewheeling diode is to apply antiparallel to the inductive load.

⁴ With reservations in use with intelligent Transponders.

DOM AccessManager (continued)

Memory contents:

storage of access authorisations in the cylinder: conventional: <ul style="list-style-type: none"> max. 3.000 conventional transponders⁵ with 4 byte transponder serial number indexed: ⁶ <ul style="list-style-type: none"> max. 32.000 subscribed transponders with object specific identifier
alternatively: storage of access authorisations on the transponder (data for Hitag S): intelligent: ⁷ <ul style="list-style-type: none"> storage of max. 260 areas- or 65 single-authorisations on the transponder
storage of time zones: <ul style="list-style-type: none"> storage of max. 32 time zones thereof 31 freely definable with up to 3 time intervals per day
storage of events: <ul style="list-style-type: none"> ring buffer for the last 3.000 events
storage of programming media: <ul style="list-style-type: none"> max. 5 programming cards and 5 PDAs

Approvals:

<ul style="list-style-type: none"> CE, EMV, in conformity with R&TTE-rules 
--

Temperature range:

<ul style="list-style-type: none"> -20 up to +55 °C
--

Relative humidity:

<ul style="list-style-type: none"> 20% up to 95% (no condensation)

Protection class:

<ul style="list-style-type: none"> IP54 when completely install (Tested in according to DIN VDE 0530-5)
--

⁵ With Devicetyp 34 and 36 max. 1000 Transponders.

⁶ Indexed transponder concept only with Devicetyp 36.

⁷ Intelligent transponder concept only with Devicetyp 36.

DOM AccessManager (continued)

	DOM housing	Siedle module (Compact und HiSec)
Assembly:	in-wall mounting with flush boxes $\varnothing 60 \times 42\text{mm}$ (DIN VDE 0606, DIN VDE 0471, DIN IEC 695)	Siedle 6xx
	Alternative with surface mounted frame	HiSec: <ul style="list-style-type: none"> • only reader unit in Siedle Module • control unit in DOM housing • alternatively reader unit in Siedle Module available
	Metallic objects close to the reader or other disturbing effects may reduce the range of communication. Minimum distance between two AccessManager > 50cm.	
Weight:	approx. 80g	approx. 170 g
Size:	85 × 85 × 16,5 mm (cap of housing) 85 × 85 × 24 mm (including feeder clamps) 85 × 92 × 40 mm (with surface mounting frame)	100 × 100 × 25 mm (Module 6xx)
Plastics:	mounting frame: PA6 GF30 cap of housing and surface mounting frame: ASA	
Colour of housing :	visible components alternatively: <ul style="list-style-type: none"> • RAL 9010 white • silver metallic (similar to RAL 9006, 9007) 	visible components alternatively: <ul style="list-style-type: none"> • white • silver metallic • titan metallic • graphite – brown metallic • white-gloss-finish • black-gloss-finish • luminous-amber • luminous-dark-grey

Warranty

The limitation period for the customer's rights is twelve months after the delivery of the delivery item to the customer. The statutory periods of limitation shall remain valid for claims for damages on the part of the customer for other reasons than defects of the delivery item as well as with regard to the customer's rights in the case of a fraudulent concealment of defects or wilfully caused defects. The limitation provisions of § 479 German Civil Code shall remain unaffected.

Should you have any questions that are not answered by the information contained in these assembly and operating instructions, please contact one of the branch offices in your country directly.

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Drilling template

