ASSEMBLY INSTRUCTIONS

A-TS
Automatic Door Lock PVC
Table of Contents

<table>
<thead>
<tr>
<th>Item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Important Notes</td>
<td>4</td>
</tr>
<tr>
<td>Key</td>
<td>5</td>
</tr>
<tr>
<td>Use of transportation protection devices</td>
<td>6</td>
</tr>
<tr>
<td>Instructions for use</td>
<td>7 - 11</td>
</tr>
<tr>
<td>Installation Instructions</td>
<td>12 - 17</td>
</tr>
<tr>
<td>- Set lock for day release function (assembler)</td>
<td>13</td>
</tr>
<tr>
<td>- Assembly day release element on the lock (assembler)</td>
<td>14</td>
</tr>
<tr>
<td>- Assemble MACO day release opener on striker plate (assembler)</td>
<td>15</td>
</tr>
<tr>
<td>- Operating instructions day release (end customer)</td>
<td>16</td>
</tr>
<tr>
<td>- Positions</td>
<td>17</td>
</tr>
<tr>
<td>Drilling and milling Images</td>
<td>18 - 20</td>
</tr>
<tr>
<td>- Lock case and multi-function latch with hook lock</td>
<td>18</td>
</tr>
<tr>
<td>- Latch and shootbolt striker plate</td>
<td>19</td>
</tr>
<tr>
<td>- Multi-function hook striker plate</td>
<td>20</td>
</tr>
<tr>
<td>Positioning of the striker plates</td>
<td>21 - 26</td>
</tr>
<tr>
<td>- 2 Multi-function latch with hook, standard K+730, 1-sash</td>
<td>21</td>
</tr>
<tr>
<td>- 2 Multi-function latch with hook, standard K+730, 2-sash</td>
<td>22</td>
</tr>
<tr>
<td>- 2 Multi-function latch with hook, Low K+605, 1-sash</td>
<td>23</td>
</tr>
<tr>
<td>- 2 Multi-function latch with hook, Low K+605, 2-sash</td>
<td>24</td>
</tr>
<tr>
<td>- 2 Multi-function latch with hook, High K+980, 1-sash</td>
<td>25</td>
</tr>
<tr>
<td>- 2 Multi-function latch with hook, High K+980, 2-sash</td>
<td>26</td>
</tr>
<tr>
<td>Lengthening/shortening of the A-TS K+730</td>
<td>27 - 28</td>
</tr>
<tr>
<td>- Module without additional locking point</td>
<td>27</td>
</tr>
<tr>
<td>- Module with additional locking point</td>
<td>28</td>
</tr>
</tbody>
</table>
# Table of Contents

<table>
<thead>
<tr>
<th>Item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>openDoor Access Solutions</td>
<td>29 - 40</td>
</tr>
<tr>
<td>Overview</td>
<td>29</td>
</tr>
<tr>
<td>A-TS Transponder Plus</td>
<td>30</td>
</tr>
<tr>
<td>A-TS Transponder Keypad and Touchkey</td>
<td>31</td>
</tr>
<tr>
<td>Somfy lock controller</td>
<td>32</td>
</tr>
<tr>
<td>Circuit Diagram frame-side</td>
<td>33</td>
</tr>
<tr>
<td>Circuit Diagram button impulse</td>
<td>34</td>
</tr>
<tr>
<td>Circuit Diagram toggle switch</td>
<td>35</td>
</tr>
<tr>
<td>Milling image Transponder Plus</td>
<td>36</td>
</tr>
<tr>
<td>Milling image Keypad / Touchkey BT</td>
<td>37</td>
</tr>
<tr>
<td>Milling image including connector plate and motor</td>
<td>38</td>
</tr>
<tr>
<td>Cable transition for opening angle ≤ 110°, PVC 12 air</td>
<td>39</td>
</tr>
<tr>
<td>Cable transition for opening angle ≤ 180°, PVC 12 air</td>
<td>40</td>
</tr>
</tbody>
</table>
Important Notes

Target audience

This documentation is intended exclusively for specialist companies and certified specialists. The work-steps contained may only be carried out by certified specialists.

Instructions for use

• Unless otherwise indicated, measurements are made in millimetres.
• Assemble all hardware parts professionally as described in these instructions and observe all safety instructions.
• All diagrams are only symbolic.
• With the spacer-block setting, observe the glazing technical guideline No. 3 for the "Blocking of Glazing Units".
• Observe the "Guidelines and Instructions for Product and Liability (GIPL)".
• Inform the end user about the contents of the "Guidelines and Instructions for End Users (GIEU)".
• Printing errors, mistakes and changes are reserved.

Material information

• The hardware parts described in this guide are made of stainless steel or galvanised passivated steel and sealed in accordance with DIN EN 12329. They must not be used in environments with aggressive, corrosive air content.
• Do not use acid-curing sealants, as these can lead to corrosion of the hardware parts.
• The door lock elements may only be surface-treated before the hardware is installed. Any subsequent surface treatment may restrict the functionality of the hardware. In this case, no warranty claims can be made against the hardware manufacturer.
Key

- Backset DM
- Distance E
- Handle height GM
- Profile Front Edge
- MF Multi-function latch
- EV End piece
- FFH Sash rebate height
- K+ Case dimension top
- K- Case dimension bottom
- Important note
Use of transportation protection devices

Simple transport protection devices, wedges or blocks ensure a safe transport of the entire door element. Remove only after installation.

A) Transport protection device position
Instructions for use

Never open the lock case!

Remove swarf from the milled space!

Drill all holes before installation of the lock!

Do not force the handle pin through the lock nut!
Instructions for use

- Only close the lock with the corresponding operating key!
- Do not turn the key using force!
  The latch of the main lock must not rub against the striker plate – this also applies to multi-point locks without door acceleration, and all latches of the side locks. For this, use the adjustment option on the striker plates and door hinges. Adjustment of the holes in the striker plates is not permitted.
- Do not use force during the cylinder assembly!
- Do not simultaneously press the key and handle!
Instructions for use

Only apply load to the handle in the normal direction! Apply a maximum force of 15 kg in the direction of actuation (on the handle)!

The multi-point lock must be replaced as soon as traces of use of force are visible!

Two-sash doors must not be forced over the inactive leaf!

Do not close the lock latch when the door is open!
Instructions for use

Do not carry the door leaf with the handle!

Do not paint or varnish over the padlock bolt or latch!
Instructions for use

The door lock (lock case) is delivered with an intensive lubrication of high-performance greases and must NOT be re-lubricated!

Lubricate the MF-HO locking element 1x annually!

Do not use any lubricating oils, rust remover, silicone sprays etc!
Lubricate only with grease or technical petroleum jelly! Lubricate the latch and locking bolt 1x annually!

* Spray grease (455341), ** Rust remover
Installation Instructions

1. Loosen the screw completely and push forward with the screwdriver!
2. Remove the latch!
3. Turn the latch over and place it on the faceplate (a) so that you can press the insert leg (e) of the latch insert (d) under the faceplate recess (b). Only then press the latch in completely!
4. Screw in (torque min. 1.5 Nm to max. 2 Nm)!

Crank latch

Multi-function latch

Perform functional check!
Installation Instructions
Set lock for day release function (assembler)

Set day release function

1. Lock
2. Remove the day release screw (2.5 mm hex socket)
3. Unlock

Manufacture delivery state

1. Lock
2. Insert day release screw (2.5 mm hex socket)
3. Unlock

If the day release function is set, the main latch is not actuated during motorised operation (door does not automatically jump open)!
Installation Instructions
Day release element assembly on the lock (assembler)

1. Remove the faceplate cover.
2. Position the day release element on the back of the faceplate (directly on the latch above the lock case)
3. and push onto the lock case.
4. Screw on the day release element with the attached TX20 M4x10 screw on the front of the faceplate!
Installation Instructions
MACO day release opener assembly on the striker plate (assembler)

1. Remove the latch insert.
2. Assemble the MACO day release opener.
3. Activate the mechanical unlocking on the day release opener using the lever*.

*Mechanical unlocking can remain activated as the day release function is controlled by the day release slider on the lock (see "Day Release Function" user manual, page 16).
Installation Instructions
Day release function user manual (end customer)

Activate day release function

1. Press the handle so that the locking element and the multi-function latch are pulled in
2. Slide the day release slider upwards, release the handle!

Deactivate day release feature

1. Press the handle so that the locking element and the multi-function latch are pulled in!
2. Slide the day release slider downwards!

The A-TS basic function, automatic locking, is restored!
Installation Instructions

Positions

Position of latch and shootbolt striker plate

Position of striker plate, multi-function latch with hook

Pressure adjustment:

+/- 2 mm with latch and shootbolt striker plate

+/- 1.5 mm with MF-HO striker plate

Positioning of notch faceplate = notch strike plate

A rebate clearance of 10 - 14 mm must be kept in the installed state!
Drilling and milling images
Lock case and multi-function latch with hook lock
Drilling and milling images
Latch and shootbolt striker plate

*Milling E-opener
Drilling and milling images
Multi-function hook striker plate
Positioning of the striker plates

2 Multi-function latches with hook, standard K+730, 1-sash

1. Single striker plate
2. Single piece door striker
3. Lock

* Use faceplate strip cover for higher FFH!

Drive for motorised opening
Positioning of the striker plates

2 Multi-function latches with hook, standard K+730, 2-sash

1. French casement drive gear
2. Finger operated door shootbolt
3. Lock

* Use faceplate strip cover for higher FFH!

Drive for motorised opening
Positioning of the striker plates

2 Multi-function latches with hook, Low K+605, 1-sash

1) Single striker plate
2) Single piece door striker
3) Lock

* Use faceplate strip cover for higher FFH!

Drive for motorised opening
Positioning of the striker plates
2 Multi-function latches with hook, Low K+605, 2-sash

1) French casement drive gear
2) Finger operated door shootbolt
3) Lock

* Use faceplate strip cover for higher FFH!

Drive for motorised opening
Positioning of the striker plates
2 Multi-function latches with hook, High K+980, 1-sash

1) Single striker plate
2) Single piece door striker

3) Lock

* Use faceplate strip cover for higher FFH!

Drive for motorised opening
Positioning of the striker plates

2 Multi-function latches with hook, High K+980, 2-sash

1) French casement drive gear
2) Finger operated door shootbolt
3) Lock

* Use faceplate strip cover for higher FFH!

Drive for motorised opening
**Lengthening/shortening of the A-TS K+730**
Module without additional locking point

- Only possible with A-TS K+730 module!
- When using the lengthening or shortening faceplate, the standard eurogroove must be used!

### Shortening faceplate pack
Contents: 1 pc. fixing bolt with shortening faceplate and deadbolt

1. Remove the fixing bolts on Standard A-TS
2. Separate the faceplate and deadbolt.
3. Use the shortening or lengthening faceplate.
4. Screwing the entire faceplate.

- Perform functional testing!

### Lengthening faceplate pack
Contents: 1 pc. fixing bolt with lengthening faceplate and deadbolt

- [Diagram and instruction for lengthening process]
Extension of the A-TS K+730
Module with additional locking point

_ONLY possible with A-TS K+730 module!

_ONLY when using the A-TS intermediate faceplate module, the standard eurogroove must be used!

The A-TS intermediate faceplate module is delivered with two pre-inserted fixing pins!

1. Remove 1 of the fixing pins from the intermediate faceplate.
3. Separate the faceplate and deadbolt.
4. Insert the A-TS intermediate faceplate with the pre-fitted fixing pins.
5. Screw in the entire faceplate.

Perform functional testing!
openDoor Access Solutions
Overview

1. 3-latch door lock with opening motor
   High security thanks to self-locking of steel hooks and locking latch

2. Tamper-proof
   Control unit protected from unauthorised access

3. Maximum comfort thanks to motorised release

4. Plug & Play
   Simple, non-mistakable plug-in connection

5. EASY mounting and de-mounting of the door thanks to plug-in cable transition
openDoor Access Solutions
A-TS Transponder Plus

Plug & Play connector / cable installation

1. Brown: motor operating voltage minus -
2. White: motor operating voltage plus +
3. Green: control voltage* minus -
4. Yellow: control voltage* plus +

*The control voltage is required for push-button (button impulse) and toggle switch (activation/deactivation of day-release)!

A Motor cable connection
B Motor to access solution connection
C Power supply 12 - 24 V DC min. 1.5 A
D Tension release

Access solution: Transponder Plus

12 - 24 V DC min. 1.5 A

Cable transition
2.5 m door leaf / 6 or 10 m outer installation length

Electricity connections (connection of power supply, connection cable 0.15 m and 10 m) may only be carried out by authorised personnel!
openDoor Access Solutions
A-TS Transponder Keypad and Touchkey

Plug & Play connector / cable installation

1. Brown: motor operating voltage minus -
2. White: motor operating voltage plus +
3. Green: control voltage* minus -
4. Yellow: control voltage* plus +

*The control voltage is required for push-button (button impulse) and toggle switch (activation/deactivation of day-release)!

Motor cable connection

Motor to access solution connection

Power supply 12 - 24 V DC min. 1.5 A

Tension release

Cable transition
2.5 m door leaf / 6 or 10 m outer installation length

12 - 24 V DC
min. 1.5 A

Electrical connections (connection of power supply, connection cable 0.15 m and 10 m) may only be carried out by authorised personnel!
openDoor Access Solutions
Somfy lock controller

A Motor cable connection
B Power supply 12 - 24 V DC
min. 1.5 A

C Tension release

DIP switch
DIP switch 4 ON = IN1 / IN 2 Locking monitoring ON
OFF = IN1 / IN 2 Locking monitoring OFF
DIP switch 5 ON = 3 sec. exit activation 1/2
OFF = 1 sec. exit activation 1/2

Connections
1 GND
2 V in +8 - 24V (DC) = supply power
3 IN COM
4 IN closed
5 IN double locked = Isolated free inputs (max. load 24V / 10mA)
6 OUT 1A
7 OUT 1B = Isolated free outputs 1 (max. load 24V / 600mA)
8 OUT 2A
9 OUT 2B = Isolated free outputs 2 (max. load 24V / 600mA)

Plug & Play connector / cable installation

1 Brown: motor operating voltage minus -
2 White: motor operating voltage plus +
3 Green: control voltage* minus -
4 Yellow Control voltage * plus +

*The control voltage is required for push-button (button impulse) and toggle switch (activation/deactivation of day-release)!

Electrical connections (connection of power supply, connection cable 0.15 m and 10 m) may only be carried out by authorised personnel!
openDoor Access Solutions

circuit diagram frame side

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12 - 24V DC
min. 1.5 A

Transformer

1. Brown: motor operating voltage minus -
2. White: motor operating voltage plus +
3. Green: control voltage* minus -
4. Yellow: control voltage* plus +

*The control voltage is required for push-button (button impulse) and toggle switch (activation/deactivation of day-release)!

Access solutions:
- Transponder
- Kleypad
- Touchkey

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Electrical connections (connection of power supply, connection cable 0.15 m and 10 m) may only be carried out by authorised personnel!
openDoor Access Solutions

circuit diagram button impulse

12 - 24V DC
min. 1.5 A

Transformer

1 Brown -
2 White +
3 Green -
4 Yellow +

Button for button impulse

Plug & Play connector /
cable installation

1 Brown: motor operating voltage minus -
2 White: motor operating voltage plus +
3 Green: control voltage* minus -
4 Yellow Control voltage * plus +

*The control voltage is required for push-button (button impulse) and toggle switch (activation/deactivation of day-release)!

Loop for Assembly

Cable transition
2.5 m door leaf / 6 or 10 m outer installation length

tension release

Electrical connections (connection of power supply, connection cable 0.15 m and 10 m) may only be carried out by authorised personnel!
openDoor Access Solutions

circuit diagram toggle switch

Plug & Play connector / cable installation

1. Brown: motor operating voltage minus -
2. White: motor operating voltage plus +
3. Green: control voltage* minus -
4. Yellow Control voltage * plus +

*The control voltage is required for push-button (button impulse) and toggle switch (activation/deactivation of day-release)!

Electrical connections (connection of power supply, connection cable 0.15 m and 10 m) may only be carried out by authorised personnel!
openDoor Access Solutions
millling image Transponder Plus
openDoor Access Solutions
milling image Keypad / Touchkey BT
openDoor Access Solutions
milling image including mounting plate and motor assembly

* Control unit for openDoor Access Solutions, ** Cable channel for Comfort solution,
*** Cable for openDoor Access Solutions
openDoor Access Solutions

cable transition for opening angle ≤ 110°, PVC 12 air
openDoor Access Solutions

cable transition for opening angle $\leq 180^\circ$, PVC 12 air

Due to the various hinge options and the resulting turning axes, the position of the cable tray (dimension X) and the cover plate (dimension Y) must be determined independently!