animeo
KNX 4 DC Motor Controller WM
Manual
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Before starting up it is necessary to follow the safety instructions in these instructions. SOMFY cannot be held liable for defects and damages when these have been caused as a result of not following instructions (wrong installation, incorrect service etc.). Establishing, testing and starting up of the equipment is permitted only by a qualified person (in accordance with VDE 0100). Switch on all connections without voltage. Take precautions against unintentional turning on.

The installation of the Somfy products may occur only at easily accessible places. If maintenance and repair become substantially hindered by accessibility (e.g. stuck or extensively stuck flooring, installation behind lamps or behind façades), any originating supplementary costs therein cannot be charged to the seller.

Subject to technical changes.

The animeo KNX 4 DC Motor Controller WM 24 V DC is suited for selecting up to four individually parameterable motors for Venetian blinds, roller shutters, awnings and windows. The local push button inputs can be used as conventional push buttons or as universal KNX binary inputs.

**Functions and advantages**

- Time savings through easy installation, for example using spring connectors, strain relief cable binders, sufficient enough clamping space.
- A group input can be used to control all four motors independently of ETS programming.
- Testing the moving direction of the motors is possible without ETS.
- The device can be used in delivery state without programming with the ETS software.
- Four local push button inputs can be used as maximum to connect eight universal KNX binary inputs, for example window contacts, temperature switches or presence detectors. By using conventional push buttons, lighting can also be controlled and dimmed.
- User-friendly and intuitive parameter settings in the ETS software.
- Intelligent change-over between manual operation and automatic operation to guarantee excellent user friendliness and energy savings.
- Position messaging of the motors during the movement and when reaching the upper or lower end position.
- Two different safety positions, freely determinable for every individual motor output.
- Safety position with mains voltage return freely determinable and messaging over building.
- Automatic cascading of the outputs with mains voltage return and bus-safety functions to minimise power peaks.
- Plug and Play! Any time extendable with animeo RTS Radio Module (ref. 1860105) or animeo EnOcean Receiver (ref. 1860220). Without additional wiring the four motors can be controlled individually per radio using Somfy RTS technology.
- Alternatively the animeo KNX RTS Receiver (ref. 1860191) or animeo KNX EnOcean Receiver (ref. 1860229) can be used. Here, without additional wiring, up to 5 universal KNX radio binary inputs can be gained (e.g. light ON/OFF with DIM).

A complete commissioning is possible if the KNX Motor Controller is connected to and powered by the KNX bus.
1 Definitions

1.1 Manual Command
A manual command is a command which is generated by local conventional push buttons or by a Somfy RTS radio hand transmitter. A telegram which is sent on the objects 1-12 (bit commands) is also understood as a manual command.

1.2 Automatic Command
A telegram which is sent on the objects 13-20 (byte commands) is understood as an automatic command.

1.3 US push button ergonomics
With this parameter it is ensured that the Venetian blind is controlled in the US ergonomics over the local push button inputs or over the Somfy RTS radio hand transmitter.
Short pressing of the push button (< 0.5 s): A move command is carried out.
Long pressing of the push button (> 0.5 s): A turn command is carried out, as long as the push button is pressed. When released, the turn command is stopped.
If the current position of the Venetian blind is beyond the turn, a move command is carried out with pressed push button.

1.4 EU push button ergonomics
With this parameter it is ensured that the Venetian blind is controlled in the EU ergonomics over the local push button inputs or over the Somfy RTS radio hand transmitter.
Short pressing of the push button (< 0.5 s): A turn step is carried out.
Long pressing of the push button (> 0.5 s): A turn command is carried out as long as the push button is pressed.
If the current position of the Venetian blind is beyond the turn, a move command is carried out.

1.5 Screen push button ergonomics
With this parameter it is ensured that the end product is controlled in screen ergonomics over the local push button inputs or over the Somfy RTS radio hand transmitter.
Short pressing of the push button when the end product is moving: A stop command is carried out.
Long pressing of the push button when the end product is not moving: A drive command is carried out.

1.6 On/Off/Toggle

1.6.1 On
If an “On” telegram is generated the value “1” is transmitted on the corresponding KNX group address.

1.6.2 Off
If an “Off” telegram is generated the value “0” is transmitted on the corresponding KNX group address.

1.6.3 Toggle
If a “Toggle” telegram is generated the value is firstly inverted and then transmitted to the corresponding KNX group address.
1.7 Position of the slats

1.7.1 90°/0° Venetian blind

Max. closed

- Angle: 90°
- Turn: 0%
- KNX value: 100%

50% turned

- Angle: 45°
- Turn: 50%
- KNX value: 50%

Max. turned

- Angle: 0°
- Turn: 100%
- KNX value: 0%

1.7.2 90°/-90° Venetian blind

Max. closed

- Angle: 90°
- Turn: 0%
- KNX value: 100%

50% turned

- Angle: 0°
- Turn: 50%
- KNX value: 50%

Max. turned

- Angle: -90°
- Turn: 100%
- KNX value: 0%
2 Installation

Choose the right place for installation: Level surface with sufficient space

Installation of the Motor Controller 4 DC WM

Complete wiring and connect power supply
The “US”-LED blinks regularly when the mains (24 V) and the KNX bus voltage are connected actively on the device. The device is ready for operation when the “US” LED blinks.

<table>
<thead>
<tr>
<th>Connection to ...</th>
<th>Cable</th>
<th>Twisted pair</th>
<th>Max. length</th>
<th>Stripping length</th>
</tr>
</thead>
</table>
| Motors            | Min.: 2 x 0.6 mm/22 AWG  
Max.: 2 x 2.5 mm²/13 AWG  | - |  | 6 mm/0.24” |
| Switch            | Min.: 3 x 0.6 mm/22 AWG  
Max.: 3 x 2.5 mm²/13 AWG  | Recommended | 100 m/330 ft | 6 mm/0.24” |
| Group control     | Min.: 3 x 0.6 mm/22 AWG  
Max.: 3 x 1.5 mm²/15 AWG  | Recommended | 100 m/330 ft | 6 mm/0.24” |
| KNX-Bus           | 2 x 0.8 mm/20 AWG        | Required, according to KNX guidelines |  | 6 mm/0.24” |
| 24 V DC           | Min.: 2 x 1.5 mm²/15 AWG  
Max.: 2 x 2.5 mm²/13 AWG  | - | 10 m/33 ft | 6 mm/0.24” |
4 Settings in the delivery state

The Motor Controller KNX can be used in the delivery state also without prior programming by the ETS software. Practical presets are implemented in the device. These settings apply to all four motor outputs.

- Move times UP/DOWN, CLOSED/OPEN = 5 minutes
- Connection of local conventional push buttons is possible

The local push button inputs are assigned directly to the motor outputs: Push button input 1 controls motor output 1 (fig. 1). The motor outputs can be controlled through bridging the wire at the push button inputs when required (fig. 2).

4.1 Function of the Reset/Prog button

⚠️ The basic settings in the KNX Motor Controller can be made using this push button. These basic settings are possible only in the delivery state, before the device with the ETS was programmed, or after the device was unassigned by the ETS. The basic settings are overwritten by the settings in the ETS.
4.2 Selection of different user ergonomics

Using the Reset/Prog button the press button user ergonomics for the local push button inputs or Somfy RTS radio hand transmitter can be determined. These settings are possible only in the delivery state, before the device is programmed with ETS software or after the device is unassigned with the ETS. As soon as the device with the ETS is programmed, no further settings of the user ergonomics can be made via the Reset/Prog button. When the device is unassigned by the ETS, the adjusting of the user ergonomics is possible again via the Reset/Prog button.

△ The selection of the user ergonomics must match with a corresponding end product.

Learning-in of animeo RTS radio module

<table>
<thead>
<tr>
<th>SCR</th>
<th>EU</th>
<th>US</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen ergonomics*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Venetian blind, EU ergonomics*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Venetian blind, US ergonomics*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*see chapter 1 “Definitions”

4.3 Changing the ergonomics

The delivery state is Venetian Blind with EU ergonomics

To change to different ergonomics press briefly the Reset/Prog button. Repeat till such time as the desired LED shines.

Save and exit the setting mode
4.4 Manual learning-in of move times

The move and turn times per motor output can be set via local conventional push buttons. These settings are possible only in the delivery state before the device has been programmed with the ETS. As soon as the device with the ETS is programmed, the move times and turn times can no longer be set via local conventional push buttons. When the device is unassigned by the ETS, the adjusting of the move times and turn times via local conventional push buttons can be done again.

△ Alternatively to the conventional push buttons, the settings can also be done using the Somfy RTS Transmitter and animeo RTS Radio Module (ref. 1860105). A setting using animeo KNX RTS Receiver (ref. 1860191) and Somfy RTS Transmitter resp. animeo EnOcean Receiver (ref. 1860220) or animeo KNX EnOcean Receiver (ref. 1860229) und EnOcean Receiver is not possible!

4.5 Manual learning-in of the intermediate position 1

Intermediate position 1 can be learned-in individually per motor output via conventional local push buttons. At the same time, it is possible to carry out the intermediate position 1 via settings in the ETS parameters. Prior to this, the move and turn times must be learned-in!

△ Alternatively to the conventional push buttons, the settings can also be done using the Somfy RTS Transmitter and animeo RTS Radio Module (ref. 1860105). A setting using animeo KNX RTS Receiver (ref. 1860191) and Somfy RTS Transmitter resp. animeo EnOcean Receiver (ref. 1860220) or animeo KNX EnOcean Receiver (ref. 1860229) and EnOcean Sender is possible through using the objects 64-67!

4.5.1 Save intermediate position 1 (IP1)
4.5.2 Call intermediate position 1 (IP1)

4.6 Resetting to the delivery state
When the device has not been programmed with the ETS software.

The setting made via the Reset/Prog push button can be set back to the delivery state by pressing the Reset/Prog button for 10 seconds.

When the device has been programmed with the ETS software, a reset in the delivery state is no longer possible via the Reset/Prog button. Over the function “Unload” in the ETS, all settings of the device can be set back in the delivery state. The Reset/Prog button is then freed again.
5 Communication objects

5.1 Object overview

At the most, 177 communication objects are available for use, but not all at once. A maximum of 250 group addresses can be connected.

5.1.1 List of Objects

<table>
<thead>
<tr>
<th>No.</th>
<th>Object name</th>
<th>Type</th>
<th>DPT_ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Motor 1 Up/Down, Close/Open</td>
<td>1 bit</td>
<td>1.008</td>
<td>If a telegram with the value “0” is received on this communication object, the appropriate blind goes up or the window closes. If a telegram with the value “1” is received, the appropriate blind goes down or the window opens. At expiration of the adjusted running time for the UP and DOWN direction the relays of the outputs are deactivated.</td>
</tr>
<tr>
<td>2</td>
<td>Motor 2 Up/Down, Close/Open</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Motor 3 Up/Down, Close/Open</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Motor 4 Up/Down, Close/Open</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Motor 1 Step/Stop</td>
<td>1 bit</td>
<td>1.008</td>
<td>With Venetian blinds: If the Venetian blind is moving, the move is stopped with the receiving of a telegram on one of these communication objects, no matter whether “0” or “1” is received. If the Venetian blind is stationary, a turn is carried out. In addition, the slats turn CLOSED with the receiving of a telegram with the value “1” and UP with the receiving of a telegram with the value “0”. The duration of the turning step is defined in the parameter settings. With vertical awnings, roller shutters, awnings and windows: When one of the end products is moving, the move is stopped with the receiving of a telegram on one of these communication objects, no matter whether “0” or “1” is received. If one of these end products is not moving and a telegram is received on one of these communication objects, then no operation is carried out.</td>
</tr>
<tr>
<td>10</td>
<td>Motor 2 Step/Stop</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Motor 3 Step/Stop</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Motor 4 Step/Stop</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Motor 1 Position Up/Down</td>
<td>1 Byte</td>
<td>5.001</td>
<td>If a telegram is received on one of these communication objects, the corresponding blind will move to the position which is defined by the received value “0” = upper/“100” = lower. With Venetian blinds: When the position is reached, the same slats angle is moved to at which the Venetian blind was before.</td>
</tr>
<tr>
<td>14</td>
<td>Motor 2 Position Up/Down</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Motor 3 Position Up/Down</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Motor 4 Position Up/Down</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Motor 1 Slat position</td>
<td>1 Byte</td>
<td>5.001</td>
<td>With Venetian blinds: If a telegram is received on one of these communication objects, the corresponding slats will move to the position which is defined by the received value. If a Venetian blind</td>
</tr>
<tr>
<td>18</td>
<td>Motor 2 Slat position</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Motor 3 Slat position</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
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<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>20</td>
<td>Motor 4 Slat position</td>
<td>1 Byte</td>
<td>5.001</td>
<td>is moving and receives a value on the corresponding object, the position of the slats is moved to only when the move has been completed. Depending on the parameter settings on the card index “General” the position is defined as follows: “100” = slats max. closed/ “0” = slats max. turned or “0” = slats max. closed/ “100” = slats max. turned</td>
</tr>
<tr>
<td>25</td>
<td>Motor 1 Move to IP1</td>
<td>1 bit</td>
<td>1.008</td>
<td>If a telegram with the value “1” is received on one of these communication objects, the corresponding blind moves to the ETS parameterized per local switch or to the radio transmitted, learned-in intermediate position 1, if the learned-in position is valid. With the receiving of a telegram with the value “0” on one of these communication objects, the corresponding blind moves to the upper end position.</td>
</tr>
<tr>
<td>26</td>
<td>Motor 2 Move to IP1</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Motor 3 Move to IP1</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Motor 4 Move to IP1</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Motor 1-4 Move to IP1</td>
<td>1 bit</td>
<td>1.008</td>
<td>If a telegram with the value “1” is received on this communication object, the blinds 1-4 move to the Intermediate Position (IP) 2 parameterized in the ETS parameters. With the receiving of a telegram with the value “0” on this communication object, the blinds 1-4 move to the upper end position.</td>
</tr>
<tr>
<td>30</td>
<td>Motor 1 Move to IP2</td>
<td>1 bit</td>
<td>1.008</td>
<td>If a telegram with the value “1” is received on one of these communication objects, the corresponding blind moves to the Intermediate Position 2 parameterized in the ETS parameters. With the receiving of a telegram with the value “0” on one of these communication objects, the corresponding blind moves to the upper end position.</td>
</tr>
<tr>
<td>31</td>
<td>Motor 2 Move to IP2</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Motor 3 Move to IP2</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Motor 4 Move to IP2</td>
<td>1 bit</td>
<td>1.008</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Motor 1-4 Move to IP2</td>
<td>1 bit</td>
<td>1.008</td>
<td>If a telegram with the value “1” is received on this communication object, the blinds move to the Intermediate Position (IP) 2 parameterized in the ETS parameters. With the receiving of a telegram with the value “0” on this communication object the blinds 1-4 move to the upper end position.</td>
</tr>
<tr>
<td>40</td>
<td>Motor 1 Security, low prio</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on one of these communication objects, the corresponding blind moves to the position parameterized in the ETS parameters (Security, low prio) and any</td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
<td>------------------------------</td>
<td>------</td>
<td>--------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>43</td>
<td>Motor 4 Security, low prio</td>
<td>1 bit</td>
<td>1.001</td>
<td>further move commands will be blocked. With the receiving of a telegram with the value “0” on one of these communication objects, the security is turned off and move commands will be accepted again. If “Repeat last telegram after security (Yes)” has been selected in the ETS parameters, the blind moves to the position it was, before security was activated. If on one of the communication objects 45-48 (Security, high prio) a telegram is received with the value “1”, the corresponding blind moves to the position parameterized in the ETS (Security, high prio).</td>
</tr>
<tr>
<td>44</td>
<td>Motor 1-4 Security, low prio</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on this communication object, the blinds 1-4 move to the position parameterized in the ETS parameters (Security, low prio) and any further move commands will be blocked. With the receiving of a telegram with the value “0” on this communication objects, the security is turned off and move commands will be accepted again. If “Repeat last telegram after security (Yes)” has been selected in the ETS parameters, the blinds move to the position they have been before security was activated. If on the communication object 49 (Security, high prio) a telegram is received with the value “1”, the blinds move to the position parameterized in the ETS (Security, high prio).</td>
</tr>
<tr>
<td>45</td>
<td>Motor 1 Security, high prio</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on one of these communication objects, the corresponding blind moves to the position parameterized in the ETS parameters (Security, high prio) and any further move commands will be blocked. With the receiving of a telegram with the value “0” on one of these communication objects, the security is turned off and move commands will be accepted again, if the corresponding object 40-43 (Security, low prio) has the value “0”. Otherwise the parameterized action for low security will be carried out. When “Repeat last telegram after security (Yes)” has been selected in the ETS parameters and both securities for the corresponding channel have the value “0”, the blind moves to the position it was, before any security was activated.</td>
</tr>
<tr>
<td>46</td>
<td>Motor 2 Security, high prio</td>
<td>1 bit</td>
<td>1.001</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Motor 3 Security, high prio</td>
<td>1 bit</td>
<td>1.001</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Motor 4 Security, high prio</td>
<td>1 bit</td>
<td>1.001</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------------------</td>
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<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>49</td>
<td>Motor 1-4 Security, high prio</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on this communication object, the blinds 1-4 move to the position parameterized in the ETS parameters (Security, high prio) and any further move commands will be blocked. With the receiving of a telegram with the value “0” on this communication object, the security is turned off and move commands will be accepted again, if the object 44 (Security, low prio) has the value “0”. Otherwise the parameterized action for low security will be carried out. If “Repeat last telegram after security (Yes)” has been selected in the ETS parameters and both securities have the value “0”, the blinds move to the position they were, before any security was activated.</td>
</tr>
<tr>
<td>50</td>
<td>Motor 1-4 Status positions</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” or “0” is received on this communication object, the current status positions of the corresponding blinds are sent to the bus (objects 73-80).</td>
</tr>
<tr>
<td>51</td>
<td>Motor 1 Block functions</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on one of these communication objects, the functions parameterized in the ETS for the corresponding blind is blocked. If a telegram with the value “0” is received on one of these communication objects, the functions parameterized in the ETS for the corresponding blind is no longer blocked and freed again.</td>
</tr>
<tr>
<td>52</td>
<td>Motor 2 Block functions</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on this communication object, the functions parameterized in the ETS for the blinds 1-4 are blocked. If a telegram with the value “0” is received on this communication object, the functions parameterized in the ETS for the blinds 1-4 are no longer blocked and freed again.</td>
</tr>
<tr>
<td>53</td>
<td>Motor 3 Block functions</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on this communication object, the functions parameterized in the ETS for the blinds 1-4 are blocked. If a telegram with the value “0” is received on this communication object, the functions parameterized in the ETS for the blinds 1-4 are no longer blocked and freed again.</td>
</tr>
<tr>
<td>54</td>
<td>Motor 4 Block functions</td>
<td>1 bit</td>
<td>1.001</td>
<td>Over these communication objects the priority automatic function and priority manual function can be switched. If a telegram with the value “1” is received on one of these communication objects, the automatic functions for the corresponding blind is prioritized activated. If a telegram with the value “0” is received on one of these communication objects, the manual functions for the corresponding blind is active.</td>
</tr>
<tr>
<td>55</td>
<td>Motor 1-4 Block functions</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on this communication object, the functions parameterized in the ETS for the corresponding blind is prioritized activated. If a telegram with the value “0” is received on one of these communication objects, the manual functions for the corresponding blind is active.</td>
</tr>
<tr>
<td>56</td>
<td>Motor 1 Prio automatic/manual</td>
<td>1 bit</td>
<td>1.003</td>
<td>If a telegram with the value “1” or “0” is received on one of these communication objects the priority switching for the corresponding blind is reset. Automatic functions or manual functions are then switched to priority active again. Whichever priority is active depends on the status of the communication objects 62-65 or whichever priority has been parameterized in the ETS.</td>
</tr>
<tr>
<td>57</td>
<td>Motor 2 Prio automatic/manual</td>
<td>1 bit</td>
<td>1.003</td>
<td>If a telegram with the value “1” or “0” is received on one of these communication objects the priority switching for the corresponding blind is reset. Automatic functions or manual functions are then switched to priority active again. Whichever priority is active depends on the status of the communication objects 62-65 or whichever priority has been parameterized in the ETS.</td>
</tr>
<tr>
<td>58</td>
<td>Motor 3 Prio automatic/manual</td>
<td>1 bit</td>
<td>1.003</td>
<td>If a telegram with the value “1” or “0” is received on one of these communication objects the priority switching for the corresponding blind is reset. Automatic functions or manual functions are then switched to priority active again. Whichever priority is active depends on the status of the communication objects 62-65 or whichever priority has been parameterized in the ETS.</td>
</tr>
<tr>
<td>59</td>
<td>Motor 4 Prio automatic/manual</td>
<td>1 bit</td>
<td>1.003</td>
<td>If a telegram with the value “1” or “0” is received on one of these communication objects the priority switching for the corresponding blind is reset. Automatic functions or manual functions are then switched to priority active again. Whichever priority is active depends on the status of the communication objects 62-65 or whichever priority has been parameterized in the ETS.</td>
</tr>
<tr>
<td>60</td>
<td>Motor 1 Reset priority</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on one of these communication objects the actual position for the corresponding blind is learned as IP1. If a telegram with the value “0” is received on one of these communication objects the IP1 is deleted.</td>
</tr>
<tr>
<td>61</td>
<td>Motor 2 Reset priority</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on one of these communication objects the actual position for the corresponding blind is learned as IP1. If a telegram with the value “0” is received on one of these communication objects the IP1 is deleted.</td>
</tr>
<tr>
<td>62</td>
<td>Motor 3 Reset priority</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on one of these communication objects the actual position for the corresponding blind is learned as IP1. If a telegram with the value “0” is received on one of these communication objects the IP1 is deleted.</td>
</tr>
<tr>
<td>63</td>
<td>Motor 4 Reset priority</td>
<td>1 bit</td>
<td>1.001</td>
<td>If a telegram with the value “1” is received on one of these communication objects the actual position for the corresponding blind is learned as IP1. If a telegram with the value “0” is received on one of these communication objects the IP1 is deleted.</td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
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</tr>
<tr>
<td>67</td>
<td>Motor 4 IP1 Save/Delete</td>
<td>1 bit</td>
<td>1.002</td>
<td>A mains power failure is signaled with this communication object. 20 seconds after the mains voltage cut out a telegram with the value “1” is sent to the bus. With return of mains voltage this communication object sends the telegram with the value “0”.</td>
</tr>
<tr>
<td>68</td>
<td>Main power failure (24 V)</td>
<td>1 bit</td>
<td>1.002</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>Motor 1 Feedback UP/DOWN</td>
<td>1 Byte</td>
<td>5.001</td>
<td>Through these communication objects, the actual position, based on the learned-in move time (UP/DOWN direction) of the corresponding blind, is sent to the bus. This kind of sending (on demand, status change, cyclic) is set in the ETS parameters. “0” = upper, “100” = lower.</td>
</tr>
<tr>
<td>74</td>
<td>Motor 2 Feedback UP/DOWN</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>Motor 3 Feedback UP/DOWN</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>Motor 4 Feedback UP/DOWN</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>Motor 1 Feedback slat</td>
<td>1 Byte</td>
<td>5.001</td>
<td>Through this communication objects, the actual slats position, based on the learned-in turn time, is sent to the bus. This kind of sending (on demand, status change, cyclic) is set in the ETS parameters. The position, dependent of parameter settings on the menu list “General”, is defined as follows: “100” = slats max. closed, “0” = slats max. turned (standard) or “0” = slats max. closed, “100” = slats max. turned.</td>
</tr>
<tr>
<td>78</td>
<td>Motor 2 Feedback slat</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>Motor 3 Feedback slat</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>Motor 4 Feedback slat</td>
<td>1 Byte</td>
<td>5.001</td>
<td></td>
</tr>
<tr>
<td>81</td>
<td>Motor 1 Upper end position</td>
<td>1 bit</td>
<td>1.002</td>
<td>Through this communication object a telegram with the value “1” for the corresponding blind is sent when the upper end position is reached. When leaving the upper end position of the corresponding blind, a telegram with the value “0” is sent. The upper and lower end position is determined by the parameterized move times.</td>
</tr>
<tr>
<td>82</td>
<td>Motor 2 Upper end position</td>
<td>1 bit</td>
<td>1.002</td>
<td></td>
</tr>
<tr>
<td>83</td>
<td>Motor 3 Upper end position</td>
<td>1 bit</td>
<td>1.002</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>Motor 4 Upper end position</td>
<td>1 bit</td>
<td>1.002</td>
<td></td>
</tr>
<tr>
<td>85</td>
<td>Motor 1-4 Upper end position</td>
<td>1 bit</td>
<td>1.002</td>
<td>Through this communication object a telegram with the value “1” for the blinds 1-4 is sent when all four blinds have reached the upper end position. When all 4 blinds leave the upper end position, a telegram with the value “0” is sent. The upper and lower end position is determined by the parameterized move times.</td>
</tr>
<tr>
<td>89</td>
<td>Motor 1 Lower end position</td>
<td>1 bit</td>
<td>1.002</td>
<td>Through this communication object a telegram with the value “1” for the corresponding blind is sent when all four blinds have reached the lower end position. When the corresponding blinds leave the lower end position, a telegram with the value “0” is sent. The upper and lower end position is determined by the parameterized move times.</td>
</tr>
<tr>
<td>92</td>
<td>Motor 2 Lower end position</td>
<td>1 bit</td>
<td>1.002</td>
<td></td>
</tr>
<tr>
<td>93</td>
<td>Motor 3 Lower end position</td>
<td>1 bit</td>
<td>1.002</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>Motor 4 Lower end position</td>
<td>1 bit</td>
<td>1.002</td>
<td></td>
</tr>
<tr>
<td>95</td>
<td>Motor 1-4 Lower end position</td>
<td>1 bit</td>
<td>1.002</td>
<td>Through this communication object a telegram with the value “1” is sent for the blinds 1-4 when all four blinds have reached the lower end position. When the corresponding blinds leave the lower end position, a telegram with the value “0” is sent. The upper and lower end position is determined by the parameterized move times.</td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
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</tr>
<tr>
<td>96</td>
<td>Switch input 1: UP/DOWN</td>
<td>1 bit</td>
<td>1.008</td>
<td>A long pressing of the button on input A generates a telegram on this communication object with the value “0”. The Venetian blind moves UP. A long pressing of the button on input B generates a telegram on this communication object with the value “1”. The Venetian blind moves DOWN.</td>
</tr>
<tr>
<td>97</td>
<td>Switch input 1: STEP/STOP</td>
<td>1 bit</td>
<td>1.008</td>
<td>A short pressing of the button on input A generates a telegram on this communication object with the value “0”. The slat turns UP. When the Venetian blinds are making a move then a short pressing of the button generates a stop command on input A. A short pressing of the switch on input B generates a telegram with the value “1”. The slats turn CLOSE. When the Venetian blind is making a move then a short pressing of the button generates a stop command on input B.</td>
</tr>
<tr>
<td>98</td>
<td>Input 1: A, Switch</td>
<td>1 bit</td>
<td>1.001</td>
<td>According to the parameter settings and the state at input 1 contact A a switching telegram is sent over this communication object with the value “1” or “0”.</td>
</tr>
<tr>
<td>99</td>
<td>Input 1: B, Switch</td>
<td>1 bit</td>
<td>1.001</td>
<td>According to the parameter settings and the state at input 1 contact B, a switching telegram is sent over this communication object with the value “1” or “0”.</td>
</tr>
<tr>
<td>100</td>
<td>Switch input 1: A, 8-Bit value</td>
<td>1 Byte</td>
<td>5.010</td>
<td>According to the parameter settings, with a rising edge on input 1 contact A, the parameterized value (0-255) is sent.</td>
</tr>
<tr>
<td>101</td>
<td>Switch input 1: B, 8-Bit value</td>
<td>1 Byte</td>
<td>5.010</td>
<td>According to the parameter settings, with a rising edge on input 1 contact B, the parameterized value (0-255) is sent.</td>
</tr>
<tr>
<td>102</td>
<td>Switch input 1: A/B, Dimming</td>
<td>1 Bit</td>
<td>1.001</td>
<td>On/Off: According to the parameter settings, with a short pressing at the input 1 contact A/B, a telegram is generated with the value “1” or “0”. Toggle/Press: According to the parameter settings, with a short pressing at the input 1 contact A/B, a telegram is generated with the value “1” or “0”.</td>
</tr>
<tr>
<td>103</td>
<td>Switch input 1: A/B, Dimming, Value</td>
<td>4 Bit</td>
<td>3.007</td>
<td>Brighter/darker dimming: According to the parameter settings, brighter dimming is done with a long pressing at the input 1 contact A. According to the parameter settings, darker dimming is done with a long pressing at the input 1 contact B. Bright/Darker toggle: According to the parameter settings, over input 1 contact A, 100 % is dimmed with longer pressing of the switch. When releasing the corresponding switch at the input A, a stop command is generated. The last activated dimming step becomes inverted. According to the parameter settings, over input 1 contact A, 100 % is dimmed with longer pressing of the switch. When releasing the corresponding switch at the input B, a stop command is generated. The last activated dimming step becomes inverted.</td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
</tr>
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<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>104</td>
<td>Switch Input 2: UP/DOWN</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 96, C/D instead of A/B</td>
</tr>
<tr>
<td>105</td>
<td>Switch Input 2: STEP/STOP</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 97, C/D instead of A/B</td>
</tr>
<tr>
<td>106</td>
<td>Switch Input 2: C, Switch</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 98, C instead of A</td>
</tr>
<tr>
<td>107</td>
<td>Switch Input 2: D, Switch</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 99, D instead of B</td>
</tr>
<tr>
<td>108</td>
<td>Switch Input 2: C, 8-Bit value</td>
<td>1 Bit</td>
<td>5.010</td>
<td>see description of object 100, C instead of A</td>
</tr>
<tr>
<td>109</td>
<td>Switch Input 2: D, 8-Bit value</td>
<td>1 Bit</td>
<td>5.010</td>
<td>see description of object 101, D instead of B</td>
</tr>
<tr>
<td>110</td>
<td>Switch Input 2: C/D, Dimming</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 102, C/D instead of A/B</td>
</tr>
<tr>
<td>111</td>
<td>Switch Input 2: C/D, Dimming, value</td>
<td>4 Bit</td>
<td>3.007</td>
<td>see description of object 103, C/D instead of A/B</td>
</tr>
<tr>
<td>112</td>
<td>Switch Input 3: UP/DOWN</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 96, E/F instead of A/B</td>
</tr>
<tr>
<td>113</td>
<td>Switch Input 3: STEP/STOP</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 97, E/F instead of A/B</td>
</tr>
<tr>
<td>114</td>
<td>Switch Input 3: E, Switch</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 98, E instead of A</td>
</tr>
<tr>
<td>115</td>
<td>Switch Input 3: F, Switch</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 99, F instead of B</td>
</tr>
<tr>
<td>116</td>
<td>Switch Input 3: E, 8-Bit value</td>
<td>1 Bit</td>
<td>5.010</td>
<td>see description of object 100, E instead of A</td>
</tr>
<tr>
<td>117</td>
<td>Switch Input 3: F, 8-Bit value</td>
<td>1 Bit</td>
<td>5.010</td>
<td>see description of object 101, F instead of B</td>
</tr>
<tr>
<td>118</td>
<td>Switch Input 3: E/F, Dimming</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 102, E/F instead of A/B</td>
</tr>
<tr>
<td>119</td>
<td>Switch Input 3: E/F, Dimming, value</td>
<td>4 Bit</td>
<td>3.007</td>
<td>see description of object 103, E/F instead of A/B</td>
</tr>
<tr>
<td>120</td>
<td>Switch Input 4: UP/DOWN</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 96, G/H instead of A/B</td>
</tr>
<tr>
<td>121</td>
<td>Switch Input 4: STEP/STOP</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 97, G/H instead of A/B</td>
</tr>
<tr>
<td>122</td>
<td>Switch Input 4: G, Switch</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 98, G instead of A</td>
</tr>
<tr>
<td>123</td>
<td>Switch Input 4: H, Switch</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 99, H instead of B</td>
</tr>
<tr>
<td>124</td>
<td>Switch Input 4: G, 8-Bit value</td>
<td>1 Bit</td>
<td>5.010</td>
<td>see description of object 100, G instead of A</td>
</tr>
<tr>
<td>125</td>
<td>Switch Input 4: H, 8-Bit value</td>
<td>1 Bit</td>
<td>5.010</td>
<td>see description of object 101, H instead of B</td>
</tr>
<tr>
<td>126</td>
<td>Switch Input 4: G/H, Dimming</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 102, G/H instead of A/B</td>
</tr>
<tr>
<td>127</td>
<td>Switch Input 4: G/H, Dimming, value</td>
<td>4 Bit</td>
<td>3.007</td>
<td>see description of object 103, G/H instead of A/B</td>
</tr>
<tr>
<td>128</td>
<td>Radio Input 1: UP/DOWN</td>
<td>1 Bit</td>
<td>1.008</td>
<td>A long pressing of “UP” button at channel 1 learned in remote generates a telegram with the value “0” on this communication object. The Venetian blind goes UP. A long pressing of “DOWN” button at channel 1 learned in remote generates a telegram with the value “1” on this communication object. The Venetian blind goes DOWN.</td>
</tr>
<tr>
<td>129</td>
<td>Radio Input 1: STEP/STOP</td>
<td>1 Bit</td>
<td>1.008</td>
<td>A short pressing of “UP” button at channel 1 learned in remote generates a telegram with the value “0” on this communication object. The slat will tilt to reverse (open). If the Venetian blind is in the fully moving process with a short pressing of “UP” button at channel 1 learned in remote, a stop order is generated. A short pressing of “DOWN” button at channel 1 learned in remote generates a telegram with the value “1” on this communication object. The slat will tilt to close. If the Venetian blind is in a fully moving process with a short pressing of “DOWN” button at channel 1 learned in remote a stop order is generated.</td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
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</tr>
<tr>
<td>130</td>
<td>Radio Input 1: Switch “my” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>According to the parameter settings a pressing of “my” button at channel 1 learned in remote generates a telegram with the value “1” or “0” on this communication object.</td>
</tr>
<tr>
<td>131</td>
<td>Radio Input 1: 8-Bit value “my” button</td>
<td>1 Byte</td>
<td>5.010</td>
<td>According to the parameter settings a pressing of “my” button at channel 1 learned in remote the configured value (0-255) is sent.</td>
</tr>
<tr>
<td>132</td>
<td>Radio Input 1: Switch “UP” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>According to the parameter settings a pressing of “UP” button at channel 1 learned in remote generates a telegram with the value “1” or “0” on this communication object.</td>
</tr>
<tr>
<td>133</td>
<td>Radio Input 1: Switch “DOWN” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>According to the parameter settings a pressing of “DOWN” button at channel 1 learned in remote generates a telegram with the value “1” or “0” on this communication object.</td>
</tr>
<tr>
<td>134</td>
<td>Radio Input 1: 8-Bit value “UP” button</td>
<td>1 Byte</td>
<td>5.010</td>
<td>According to the parameter settings a pressing of “UP” button at channel 1 learned in remote the configured value (0-255) is sent.</td>
</tr>
<tr>
<td>135</td>
<td>Radio Input 1: 8-Bit value “DOWN” button</td>
<td>1 Byte</td>
<td>5.010</td>
<td>According to the parameter settings a pressing of “DOWN” button at channel 1 learned in remote the configured value (0-255) is sent.</td>
</tr>
<tr>
<td>136</td>
<td>Radio Input 1: Dimming ON/OFF or Slow Tilting UP/DOWN</td>
<td>1 Bit</td>
<td>1.001</td>
<td>On/Up: According to the parameter settings a short pressing of “UP” button at channel 1 learned in remote a telegram with the value “0” will be generated. The light will be switched ON or the blinds will move UP. Off/Down: According to the parameter settings a short pressing of “DOWN” button at channel 1 learned in remote a telegram with the value “1” will be generated. The light will be switched OFF or the blinds will move DOWN. Toggle/Toggle: According to the parameter settings a short pressing of “UP” or “DOWN” button at channel 1 learned in remote a telegram with the value “1” and/or “0” is generated. The light will be switched ON respectively OFF or the blinds will move UP respectively DOWN.</td>
</tr>
<tr>
<td>137</td>
<td>Radio Input 1: Dimming Brighter/Darker or Slow Tilting Open/Close</td>
<td>4 Bit</td>
<td>3.007</td>
<td>Brighter/darker dimming: According to the parameter settings of the input 1 contact A with a long actuation it is dimmed brighter. According to the parameter settings of the input 1 contact B with a long actuation it is dimmed darker. Brighter/darker toggle: According to the parameter settings of the input 1 contact A with a long actuation it is dimmed 100 %. When releasing the appropriate switch at the input A a stop order is generated. The dimming action operated last is thus inverted. According to the parameter settings of the input 1 contact B with a long actuation it is dimmed 100 %. When releasing the appropriate switch at the input B a stop order is generated. The dimming action operated last is thus inverted.</td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
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</tr>
<tr>
<td>138</td>
<td>Radio Input 2: UP/DOWN</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 128, channel 2 instead of channel 1</td>
</tr>
<tr>
<td>139</td>
<td>Radio Input 2: STEP/STOP</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 129, channel 2 instead of channel 1</td>
</tr>
<tr>
<td>140</td>
<td>Radio Input 2: Switch “my” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 130, channel 2 instead of channel 1</td>
</tr>
<tr>
<td>141</td>
<td>Radio Input 2: 8-Bit value “my” but-</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 131, channel 2 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>ton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>142</td>
<td>Radio Input 2: Switch “UP” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 132, channel 2 instead of channel 1</td>
</tr>
<tr>
<td>143</td>
<td>Radio Input 2: Switch “DOWN” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 133, channel 2 instead of channel 1</td>
</tr>
<tr>
<td>144</td>
<td>Radio Input 2: 8-Bit value “UP” but-</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 134, channel 2 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>ton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>145</td>
<td>Radio Input 2: 8-Bit value “DOWN”</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 135, channel 2 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>button</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>146</td>
<td>Radio Input 2: Dimming</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 136, channel 2 instead of channel 1</td>
</tr>
<tr>
<td>147</td>
<td>Radio Input 2: Dimming/slow tilting</td>
<td>4 Bit</td>
<td>3.007</td>
<td>see description of object 137, channel 2 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.008</td>
<td></td>
</tr>
<tr>
<td>148</td>
<td>Radio Input 3: UP/DOWN</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 128, channel 3 instead of channel 1</td>
</tr>
<tr>
<td>149</td>
<td>Radio Input 3: STEP/STOP</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 129, channel 3 instead of channel 1</td>
</tr>
<tr>
<td>150</td>
<td>Radio Input 3: Switch “my” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 130, channel 3 instead of channel 1</td>
</tr>
<tr>
<td>151</td>
<td>Radio Input 3: 8-Bit value “my” but-</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 131, channel 3 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>ton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>152</td>
<td>Radio Input 3: Switch “UP” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 132, channel 3 instead of channel 1</td>
</tr>
<tr>
<td>153</td>
<td>Radio Input 3: Switch “DOWN” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 133, channel 3 instead of channel 1</td>
</tr>
<tr>
<td>154</td>
<td>Radio Input 3: 8-Bit value “UP” but-</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 134, channel 3 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>ton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>155</td>
<td>Radio Input 3: 8-Bit value “DOWN”</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 135, channel 3 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>button</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>156</td>
<td>Radio Input 3: Dimming</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 136, channel 3 instead of channel 1</td>
</tr>
<tr>
<td>157</td>
<td>Radio Input 3: Dimming/slow tilting</td>
<td>4 Bit</td>
<td>3.007</td>
<td>see description of object 137, channel 3 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.008</td>
<td></td>
</tr>
<tr>
<td>158</td>
<td>Radio Input 4: UP/DOWN</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 128, channel 4 instead of channel 1</td>
</tr>
<tr>
<td>159</td>
<td>Radio Input 4: STEP/STOP</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 129, channel 4 instead of channel 1</td>
</tr>
<tr>
<td>160</td>
<td>Radio Input 4: Switch “my” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 130, channel 4 instead of channel 1</td>
</tr>
<tr>
<td>161</td>
<td>Radio Input 4: 8-Bit value “my” but-</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 131, channel 4 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>ton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>162</td>
<td>Radio Input 4: Switch “UP” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 132, channel 4 instead of channel 1</td>
</tr>
<tr>
<td>163</td>
<td>Radio Input 4: Switch “DOWN” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 133, channel 4 instead of channel 1</td>
</tr>
<tr>
<td>164</td>
<td>Radio Input 4: 8-Bit value “UP” but-</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 134, channel 4 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>ton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>165</td>
<td>Radio Input 4: 8-Bit value “DOWN”</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 135, channel 4 instead of channel 1</td>
</tr>
<tr>
<td></td>
<td>button</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Object name</td>
<td>Type</td>
<td>DPT_ID</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------------</td>
<td>------</td>
<td>--------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>166</td>
<td>Radio Input 4: Dimming</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 136, channel 4 instead of channel 1</td>
</tr>
<tr>
<td>167</td>
<td>Radio Input 4: Dimming/slow tilting</td>
<td>4 Bit</td>
<td>3.007 3.008</td>
<td>see description of object 137, channel 4 instead of channel 1</td>
</tr>
<tr>
<td>168</td>
<td>Radio Input 5: UP/DOWN</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 128, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>169</td>
<td>Radio Input 5: STEP/STOP</td>
<td>1 Bit</td>
<td>1.008</td>
<td>see description of object 129, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>170</td>
<td>Radio Input 5: Switch “my” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 130, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>171</td>
<td>Radio Input 5: 8-Bit value “my” button</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 131, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>172</td>
<td>Radio Input 5: Switch “UP” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 132, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>173</td>
<td>Radio Input 5: Switch “DOWN” button</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 133, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>174</td>
<td>Radio Input 5: 8-Bit value “UP” button</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 134, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>175</td>
<td>Radio Input 5: 8-Bit value “DOWN” button</td>
<td>1 Byte</td>
<td>5.010</td>
<td>see description of object 135, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>176</td>
<td>Radio Input 5: Dimming</td>
<td>1 Bit</td>
<td>1.001</td>
<td>see description of object 136, channel 5 instead of channel 1</td>
</tr>
<tr>
<td>177</td>
<td>Radio Input 5: Dimming/slow tilting</td>
<td>4 Bit</td>
<td>3.007 3.008</td>
<td>see description of object 137, channel 5 instead of channel 1</td>
</tr>
</tbody>
</table>
6 Parameter

The selection options of the single parameters are described in each case. The defaults are printed in italics. In the following illustrations of the different parameter cards the maximum number of parameters is shown. Besides this and depending on the parameter settings, objects which are not required are hidden.

6.1 Menu index card “General”

6.1.1 Standard settings of the motors

Default value:  • Combined
Selection options:  • Combined
                   • Individual

With these parameters the settings of the motor outputs are made as to whether “Combined” or “Individual”. With the parameter “Combined” only one menu index card becomes visible for the basic settings of all four motor outputs (motor 1-4).

⚠️ The selection „Combined“ is recommended for projects for which the settings of the motor outputs are the same.
With the parameter „Individual“ four single cards become visible for the standard settings of the motor outputs (motor 1, motor 2, …).

6.1.2 Select priority Automatic/Manual

Default value:  • No
Selection options:  • No
                   • Yes

With the parameter “Yes” the settings for the priority functions become visible. At the same time the necessary objects appear.
6.1.3 Motor 1…4 Automatic/Manual functions

Default value: • None
Selection options: • None
• Priority automatic function
• Priority manual function

- None
  The move commands are carried out in the incoming order sequence.

- Priority automatic function
  If an automatic command (1 byte move command) occurs before a manual command (1-Bit move command), all manual commands are disabled. The objects at the start-up of the intermediate positions 1 and 2 (objects 25-34) are also disabled. A manual command is also generated over the local push button inputs or via the radio transmitter. However, a turn command (1 bit) can always be made within the parameterized turning time. A reset of the priority automatic function occurs when “Priority reset” (60-63) receives “1” or “0” on the corresponding object. Shifting between priority manual functions (value “0”) and priority automatic functions (value “1”) is done over the corresponding objects (56-59). After changing over to the corresponding priority the function is again in the reset state. This means that for priority automatic functions the manual commands are blocked only with the next automatic command.
  \[\text{\textcopyright} \text{See chapter 1 Definitions.}\]

- Priority manual function
  When a manual command (1 bit) occurs before an automatic command (1 byte), all automatic commands are disabled. A manual command is also generated over the local push button inputs or via the radio transmitter. A reset of the priority manual function occurs when “Priority reset” (60-63) receives “1” or “0” on the corresponding object. Shifting between priority manual functions (value “0”) and priority automatic functions (value “1”) is done over the corresponding objects (56-59). After changing over to the corresponding priority the function is again in the reset state. This means that for priority automatic functions the manual commands are disabled only with the next automatic command.
  \[\text{\textcopyright} \text{See chapter 1 Definitions.}\]

Over the priority manual function the user has the option of switching off the automatic functions. User comfort can be defined, for example, with a timer. At 8:00 o’clock the priority manual function is activated over the corresponding object (56-59) and the user can move to the desired position using the manual functions until priority automatic functions are switched over at around 17:00 on priority automatic functions toggles. Over the corresponding object (56-59), switching to and from priority manual function and priority automatic function can be done at any time.
  \[\text{\textcopyright} \text{See chapter 1 Definitions.}\]

To set the timer, ideally the façade controller animeo KNX Master Control W2 (Ref. 1860187) or animeo KNX Master Control W8 (Ref. 1860193) can be used.
6.1.4 **Use universal binary inputs**

Default value:  • No
Selection options:  • No  • Yes

With the parameter “Yes”, five further menu index cards open (General: Binary inputs and Binary input 1...4). Now the local push button inputs can be connected over the corresponding objects (96-127). A conventional push button can then be used for many different functions. For example, Switching, Venetian blind function, Dimming or Sending a value.

6.1.5 **Use radio binary inputs**

Default value:  • No
Selection options:  • No  • Yes

With the parameter “Yes” a menu index card opens (General: Radio binary input), over which five further menu index cards can be activated (Radio binary input 1...5). Now the radio channels can be connected over the corresponding objects (128-177). A radio transmitter can then be used for many different functions.

6.1.6 **Group control input**

Default value:  • Disabled
Selection options:  • Enabled  • Disabled

Over this parameter it is determined whether the input is blocked to the group control or is freed. Over this input all four motors are selected at the same time. Regardless of the parameter settings, the security settings (objects 40-49) have higher priority. If one of the security objects is active, the input to the group control is blocked.

⚠️ With a bus power failure this input is freed. Even if it is blocked over the parameter settings it can be used as an emergency service. With bus voltage return this input is blocked according to parameter settings or is freed.

6.1.7 **Slats turn closed/turned ONLY WITH VENETIAN BLIND**

Default value:  • Max. closed (100 %)/Max. turned (0 %)
Selection options:  • Max. closed (100 %)/Max. turned (0 %)
                    • Max. closed (0 %)/Max. turned (100 %)

- **Max. closed (100 %)/Max. turned (0 %)**
  If the value “100” is transmitted to the corresponding object (17–20), the slats are closed at maximum.
  If the value “0” is transmitted to the corresponding object (17–20), the slats are turned or opened at maximum.

- **Max. closed (0 %)/Max. turned (100 %)**
  If the value “0” is transmitted to the corresponding object (17–20), the slats are closed at maximum.
  If the value “100” is transmitted to the corresponding object (17–20), the slats are turned or opened at maximum.
6.2 Menu index card “Configuration for motor 1...4”

Four single menu index cards (motor 1...4) become visible if in the menu of the basic setting “Motors” the parameter setting “Individual” is selected. One menu index card (motor 1 - 4) becomes visible if in the menu of the basic setting “Motors” the parameter setting “Combined” is selected.

6.2.1 Type of end product

Default value: • Venetian blind with EU ergonomics
Selection options:
• Venetian blind with EU ergonomics
• Venetian blind with US ergonomics
• Screen, roller shutter, awning
• Window

• Venetian blind with EU ergonomics:
With this parameter it is determined that the Venetian blind in EU ergonomics is selected over the local push button inputs or via the Somfy RTS radio transmitter.
When the local push button inputs are used as universal push button inputs, the operating ergonomics are defined over the corresponding parameters (short/long pressing of the push button). The operating ergonomics using a Somfy RTS radio transmitter remains unchanged.
△ For an explanation of EU/US ergonomics and screen ergonomics see chapter 1 Definitions.

• Venetian blind with US ergonomics
With this parameter it is determined that the Venetian blind in US ergonomics is selected over the local push button inputs or via the Somfy RTS radio transmitter.
When the local push button inputs are used as universal push button inputs, the operating ergonomics are defined over the corresponding parameters (short/long pressing of the push button). The operating ergonomics using a Somfy RTS radio transmitter remains unchanged.
△ For an explanation of EU/US ergonomics and screen ergonomics see chapter 1 Definitions.
• Screen, roller shutter, awning
With this parameter it is determined that the corresponding blind is selected over move/stop commands when the controlling is done over the local push button inputs or via the Somfy RTS radio hand transmitter. When the local push button inputs are used as universal push button inputs, the operating ergonomics are defined over the corresponding parameters (short/long pressing of the push button). The operating ergonomics using a Somfy RTS radio transmitter remains unchanged.
\[\triangle\] For an explanation of EU/US ergonomics and screen ergonomics see chapter 1 Definitions.

• Window
With this parameter it is determined that the corresponding window is selected over move/stop commands when the controlling is done over the local push button inputs or via the Somfy RTS radio hand transmitter. When the local push button inputs are used as universal push button inputs, the operating ergonomics are defined over the corresponding parameters (short/long pressing of the push button). The operating ergonomics using a Somfy RTS radio transmitter remains unchanged.
\[\triangle\] For an explanation of EU/US ergonomics and screen ergonomics see chapter 1 Definitions.

6.2.2 Running time Up/Close
Default value: \[120\] seconds
Selection options: \[0.1 - 320\] seconds

The time parameterized here is the maximum running time from the lower end position to the upper end position, or the maximum running time which a window motor needs to close the corresponding window. An excess time of 5 seconds is always added, except with position telegrams (objects 13-16). If a position telegram with the value "0" is sent to the corresponding object, an excess time of 5 seconds is still added to it.

6.2.3 Running time Down/Open
Default value: \[120\] seconds
Selection options: \[0.1 - 320\] seconds

The time parameterized here is the maximum running time from the lower end position to the upper end position or the maximum running time which a window motor needs to open the corresponding window. An excess time of 5 seconds is always added to it, except with position telegrams (objects 13-16). If a position telegram with the value “100” is received on the corresponding object, an excess time of 5 seconds is still added to it.

6.2.4 Complete tilting of the slats
Default value: \[1.2\] seconds
Selection options: \[0 - 20\] seconds

The parameterized time here is the maximum tilting time of the slats. This parameter is only visible when the “Type of end product” is set to Venetian blind with EU ergonomics or Venetian blind with US ergonomics.
\[\triangle\] For an explanation of EU/US ergonomics see chapter 1 Definitions.

6.2.5 Step length
Default value: \[0.2\] seconds
Selection options: \[0.1 - 10\] seconds

The parameterized time here is the move time for a turn step. This parameter is only visible when the type of end product, Venetian blind with EU ergonomics or Venetian blind with US ergonomics is selected.
\[\triangle\] For an explanation of EU/US ergonomics see chapter 1 Definitions.
6.2.6 Slack compensation

Default value: 0 seconds
Selection options: 0 - 5 seconds

The time slack compensation is active as soon as a higher value than "0" is entered. The time parameterized here defines the time which is added to the parameterized complete slats turn to balance out mechanical tolerances. This time is always added with the first UP turn of the slats when the type of end product, Venetian blinds with EU ergonomics or Venetian blinds with US ergonomics have been selected. Δ For an explanation of EU/US ergonomics see chapter 1 Definitions.

6.2.7 Security position Low priority

Default value: Ignore security
Selection options:
- Upper end limit
- Lower end limit
- Intermediate position 1 (IP 1)
- Intermediate position 2 (IP 2)
- Ignore security
- Stop
- Close window
- Open window

The "Security position low priority" for the corresponding blind is determined with this parameter. If a telegram with the value "1" is received on one of these communication objects (objects 40-43) the corresponding blind moves to the position parameterized in the ETS parameters. If a telegram with the value "0" is received on one of these communication objects, no operation is carried out. If the function "Repeat last telegram after security" is set with "Yes" in the menu index card "Functions motor 1...4", the blind moves, after ending of the "Low priority" (value "0"), again in the last position and angle before activation of this priority.

6.2.8 Security position High priority

Default value: Upper end limit
Selection options:
- Upper end limit
- Lower end limit
- Ignore security
- Stop
- Close window
- Open window

The "Security position high priority" for the corresponding blind is determined with this parameter. If a telegram with the value "1" is received on one of these communication objects (objects 45-48), the corresponding blind moves to the position parameterized in the ETS parameters. If a telegram with the value "0" is received on one of these communication objects, no operation is carried out. If the function "Repeat last telegram after security" is set with "Yes" in the menu index card "Functions motor 1...4", it is checked whether "Low priority" is active or inactive. When "Low priority" (value "1") is active the blinds move to the parameterized "Security position low priority" (see previous point). If the "Low priority" (value "0") is also inactive, the blind moves again to the last position with the last angle before activating the high and low priorities.

6.2.8.1 Cyclic monitoring time in minutes (0–255)

Default value: 0
Selection options: 0 - 255 minutes

The cyclic monitoring time is active and refers to the high and low priority security objects. Δ The cyclic transmitter must be approximately 4 times faster than the cyclic monitoring. E.g. if the cyclic sending of the transmitter is set to 1 minute, then the cyclic monitoring time should be set to ≥4 minutes.
6.3 Menu index card “Functions for motor 1...4”

Four single menu index cards (Functions motor 1...4) become visible if on the menu card index “General”, the basic setting of the blinds on “Individual” is parameterized. A menu index card (Motor 1 - 4) becomes visible if on the menu card index “General”, the basic setting of the motors is parameterized to “Combined”.

6.3.1 Intermediate Position 1 (IP1)

6.3.1.1 Up/Down position (0-100%)
Default value: 0 % (function disabled)
Selection options: 0 - 100 %

With this parameter the intermediate position 1 “UP/DOWN” is defined. The set value in % refers to the parameterized move times of the corresponding blind of the menu index card Motor 1...4/Motor 1 - 4. If the IP UP/Down position parameter is set to 0 %, the IP position is disabled. This function avoids any movement of the blinds by using the “my” or IP push button.

6.3.1.2 Slat position (0-100%)
Default value: 0 %
Selection options: 0 - 100 %

With this parameter the intermediate position 1 “slats” is defined. The set value in % refers to the parameterized complete slats turn of the corresponding blind of the menu index card Motor 1...4/Motor 1 - 4.

Intermediate position 1 can be learned-in individually via conventional local push buttons or by a radio handheld transmitter per motor output. In addition, the last learned-in position applies.
6.3.2 Intermediate Position 2 (IP2)

6.3.2.1 Up/Down position (0-100%)
Default value: 0 % (function disabled)
Selection options: 0 - 100 %

With this parameter the intermediate position 2 “UP/DOWN” is defined. The set value in % refers to the parameterized move times of the corresponding blind of the menu index cards Motor 1…4/Motor 1-4. If the IP UP/Down position parameter is set to 0 %, the IP position is disabled. This function avoids any movement of the blinds by using the “my” or IP push button.

6.3.2.2 Slat position (0-100%)
Default value: 0 %
Selection options: 0 - 100 %

With this parameter the intermediate position 2 “Slats” is defined. The set value in % refers to the parameterized complete slats turn of the corresponding Venetian blind of the menu index card Motor 1…4/Motor 1-4.

6.3.3 Block position orders (1 Byte) and IP2
Default value: No
Selection options: No, Yes

Position orders (byte) can be blocked per object (51-54) using this parameter. If a telegram with the value “1” is received on the corresponding object during a blinds move, this move is carried out up to the end. Only then are further move commands (byte) blocked. If a telegram with the value “0” is received on the corresponding object, the move commands (byte) are released again.

6.3.4 Block slat orders (1 Byte)
Default value: No
Selection options: No, Yes

Slat orders (byte) can be blocked per object (51-54) using this parameter. If a telegram with the value “1” is received on the corresponding object when the Venetian blind is turning, this move is carried out up to the end. Only then are further slat orders (byte) blocked. If a telegram with the value “0” is received on the corresponding object, the slat orders (byte) are released again.

6.3.5 Block Up/Down (1 Bit) and Intermediate Position 1 (IP 1)
Default value: No
Selection options: No, Yes

UP/DOWN orders (bit) can be blocked per object (51-54) using this parameter. If a telegram with the value “1” is received on the corresponding object during a blinds move, this move is carried out up to the end. Only then are further UP/DOWN orders (bit) blocked. If a telegram with the value “0” is received on the corresponding object, the UP/DOWN orders (bit) are released again.
6.3.6 Block Step/Stop orders (1 Bit)

Default value: • No
Selection options: • No • Yes

Step/stop and turn commands (bit) can be blocked per object (51-54) using this parameter. If a telegram with the value “1” is received on the corresponding object during a blinds turn, this turn is carried out up to the end. Only then further turn commands (bit) are blocked. If a telegram with the value “0” is received on the corresponding object, the step/stop or turn commands (bit) are released again.

6.3.7 Block local push button inputs and Somfy RTS orders

Default value: • No
Selection options: • No • Yes

Local push buttons inputs and the Somfy RTS radio signal can be blocked per object (51-54) using this parameter. If a telegram with the value “1” is received on the corresponding object during a motor movement, this turn is carried out up to the end. Only after completion any further commands are blocked which are generated via local push button inputs or Somfy RTS radio signals. If a telegram with the value “0” is received on the corresponding object, the local push button inputs and Somfy RTS radio signals are freed again.

△ This function is deactivated for local push-button inputs if "Yes" has been selected in the "Use universal binary inputs" menu index card (see section 6.1.4).

6.3.8 Repeat last telegram after security

Default value: • No
Selection options: • No • Yes

If this parameter is set to “Yes”, the last move command is repeated after security. This means that it will move to the position which was active before a telegram with the value “1” was input to one of the corresponding security objects, low or high.

6.4 General information for Binary inputs

Four different basis functions can be selected for each universal input:

Default value: • Venetian blind, Up/Down
Selection options: • Venetian blind, Up/Down • Switch dry contact • 8-Bit value (rising edge) • Dimming

The single functions and parameters will be explained which arise depending on the selection of the basis function. For this, another basis function has been selected for each push button. The functions are described with the help of the input 1 contact A/B and are identical for the inputs 2-4, contacts C/D, E/F and G/H.

△ For the basis function “Venetian blind Up/Down “ attention must be paid to which contact “Up” or “Down” is switched. The same applies with selection basis function “Dimming”, for “Brighter” or “Darker” dimming. The pre-setting of the basis function for the menu index card push button 1…4 is Venetian blind Up/Down.
6.5 Menu index card “Binary inputs - Venetian blind Up/Down”

6.5.1 Basic Function
Selected option: • Venetian blinds Up/Down

6.5.2 Long operation (move) after
Default value: • 0.5 seconds
Selection options: • 0.3 - 5.0 seconds

This parameter defines the activity time of the corresponding push button which distinguishes between the sending of a short-term telegram (step/stop) and a long-term telegram (Up/Down). If the time, for example, is set on 0.5 seconds, a long-term telegram is generated first with a longer pressing of the push button which is longer than 0.5 seconds. With a shorter activation which is smaller than 0.5 seconds, a short-term telegram is generated.

6.5.3 Contact type input A
Default value: • Normally open
Selection options: • Normally open
• Normally closed

Over this parameter it is defined which type of contact is at the local input A. Normally open: The contact at the local input is activated closed and not activated opened. Normally closed: The contact at the local input is activated opened and not activated closed.

6.5.4 Contact type input B
Default value: • Normally open
Selection options: • Normally open
• Normally closed

Over this parameter it is defined which type of contact is at the local input B. Normally open: The contact at the local input is activated closed and not activated opened. Normally closed: The contact at the local input is activated opened and not activated closed.
6.6 Menu index card “Binary inputs – Switch/Dry contact”

6.6.1 Basic Function
Selected option: • Switch dry contact

6.6.2 Edge evaluation contact A
Default value: • Rising On, falling Off
Selection options: • Rising On, falling Off
• Rising Off, falling On
• Rising On
• Falling On
• Rising Off
• Falling Off
• Rising toggle
• Falling toggle
• Rising toggle, falling toggle
• No evaluation

⚠️ See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

The corresponding object value “0” or “1” is generated depending on which edge evaluation is parameterized.

• **Rising On, falling Off**
  If a rising edge at the local input appears, the object value “On” is generated. If a falling edge at the local input appears, the object value “Off” is generated. The duration of the activation is not evaluated.

• **Rising Off, falling On**
  If a rising flank at the local input appears, the object value “Off” is generated. If a falling flank at the local input appears, the object value “On” is generated. The duration of the activation is not evaluated.

• **Rising On**
  If a rising flank at the local input appears, the object value “On” is generated. If a falling flank at the local input appears, it is not evaluated. The duration of the activation is not evaluated.

• **Falling On**
  If a rising flank at the local input appears, the object value “On” is generated. If a rising flank at the local input appears, it is not evaluated. The duration of the activation is not evaluated.
6.6.3 Edge evaluation contact B
For detailed information see Edge evaluation contact A.

6.6.4 Send starting value on Bus power return
Default value: • No
Selection options: • Yes
• No

If this parameter is stopped, the current state of the input is transmitted with the bus voltage return. If this parameter is set to “No”, the current state of the input is not transmitted.

6.6.5 Contact A and B Cyclic sending of status
Default value: • No cyclic sending
Selection options: • No cyclic sending
• On
• Off
• On and Off

With this parameter it is defined whether the corresponding switch value of the communication object should be transmitted cyclically.

• No cyclic sending
The switching value of the communication object is not transmitted cyclically.

• On
If the object value is “1”, this is transmitted cyclically. If the object value changes by flank change at the local input or reception of a telegram on “0”, the cyclic sending stops.

• Off
If the object value is “0”, this is transmitted cyclically. If the object value changes by flank change at the local input or reception of a telegram on “0”, the cyclic sending stops after “1”.

• Rising Off
If a rising flank at the local input appears, the object value “Off” is generated. If a falling flank at the local input appears, this is not evaluated. The duration of the activity is not evaluated.

• Falling Off
If a falling flank at the local input appears, the object value “Off” is generated. If a rising flank at the local input appears, this is not evaluated. The duration of the activity is not evaluated.

• Rising toggle
If a rising flank at the local input appears, the object value is inverted. If a falling flank at the local input appears, this is not evaluated. The duration of the activity is not evaluated.

• Falling toggle
If a falling flank at the local input appears, the object value is inverted. If a rising flank at the local input appears, this is not evaluated. The duration of the activity is not evaluated.

• Rising toggle, falling toggle
If a rising or falling flank at the local input appears, the object value is inverted. The duration of the activity is not evaluated.

• No evaluation
If a rising or falling flank at the local input appears, this is not evaluated.
• **On and Off**
If the object value is “1” or “0”, this is transmitted cyclically. If the object value changes by flank change at the local input or with reception of a telegram, the current object value is transmitted cyclically.

### 6.6.6 Cyclic sending

**Default value:** 5 seconds  
**Selection options:** 1 – 3600 seconds

With this parameter the time intervals are defined in which the corresponding object value should be transmitted cyclically.

⚠ Please beware that cyclical supervision time of the receiver is approximately 4 times higher than that of the transmitter.

### 6.7 Menu index card “Binary inputs – 8-Bit value (rising edge)”

#### 6.7.1 Basic Function

**Selected option:** 8-Bit value (rising edge)

#### 6.7.2 Contact type input A

**Default value:** 0  
**Selection options:** 0 – 255

With this parameter the value is set which is transmitted with a rising edge to the local input A.

#### 6.7.3 Contact A value on rising edge (0-255)

**Default value:** Normally open  
**Selection options:** Normally open, Normally closed

With this parameter it is defined which contact type is at the local input A.  
Normally open: The contact at the local input is activated closed and not activated opened.  
Normally closed: The contact at the local input is activated opened and not activated closed.
6.7.4 Contact type input B
Default value: 0
Selection options: 0 – 255

With this parameter the value is set which is transmitted with a rising edge at the local input B.

6.7.5 Contact B value on rising edge (0-255)
Default value: Normally open
Selection options: Normally open, Normally closed

With this parameter it is defined which contact type is at the local input B. Normally open: The contact at the local input is activated closed and not activated opened. Normally closed: The contact at the local input is activated opened and not activated closed.

6.8 Menu index card “Binary inputs – Dimming”

6.8.1 Basic Function
Selected option: Dimming

6.8.2 Long operation (dimming) after
Default value: 0.5 seconds
Selection options: 0.3 – 5.0 seconds

This parameter defines the activity time of the corresponding push button which makes a distinction between the sending of a switching telegram and a dimming telegram. If the time, for example, is parameterized on 0.5 seconds, a dimming telegram is generated only after a press longer than 0.5 seconds is made. With a pressing shorter than 0.5 seconds a switch telegram is generated.

6.8.3 Input A/B
Default value: On/Off
Selection options: On/Off, Toggle/Toggle

This parameter defines the value which is transmitted with a short pressing of the corresponding input.
• **On/Off**
With a short pressing of the push button at the input A, an “Off” telegram is generated. With a short activity of the corresponding push button at the input B, an “On” telegram is generated. This function can be inverted by changing over the clamps at the inputs.

• **Toggle/Toggle**
Switching over can be done with a short pressing of the push button at the input A or B. This means that the value which is in the corresponding switching object is firstly inverted and is then transmitted.

⚠️ See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

### 6.8.4 Contact type input A

**Default value:** Normally open  
**Selection options:** Normally open  
 Normally closed

With this parameter it is defined which contact type is at the corresponding local input.  
Normally open: The contact at the local input is activated closed and not activated open.  
Normally closed: The contact at the local input is activated open and not activated closed.

### 6.8.5 Contact type input B

**Default value:** Normally open  
**Selection options:** Normally open  
 Normally closed

With this parameter it is defined which contact type is at the corresponding local input.  
Normally open: The contact at the local input is activated closed and not activated open.  
Normally closed: The contact at the local input is activated open and not activated closed.

### 6.8.6 Dimming with

**Default value:** Stop telegram  
**Selection options:** Cyclic intervals  
 Stop telegram

• **Cyclic intervals**
With a short pressing of the push button at the local input A or B, an “On” or an “Off” telegram is generated over the corresponding object (1 bit). With a long pressing of the push button at the local input A brighter dimming is done over the corresponding object (4 bit) as long as the push button is pressed. When the push button is released on the local input A cyclical sending is stopped. The length of steps and the time duration for brighter dimming is made from the parameters “longer push button pressing (dimming)” and “interval for cyclical dimming”.
With a long pressing of the push button at the local input B, darker dimming is done over the corresponding object (4 bit) as long as the push button is pressed. When the push button is released on the local input B, cyclical sending is stopped. The length of steps and the time duration for darker dimming is made from the parameters “longer push button pressing (dimming)” and “interval for cyclical dimming”.

• **Stop telegram**
With a short pressing of the push button at the local input A or B, a telegram is generated over the corresponding object (1 bit). With a long pressing of the push button at the local input A brighter dimming is done over the corresponding object (4 bit). With a long pressing of the push button at the local input B, darker dimming is done over the corresponding object (4 bit). When the corresponding push button at the local input A or B is released, a stop command is generated.
6.8.7 Dimming Brighter/Darker

Default value: • Adjust by 1/8
Selection options: • Adjust by 100%
• Adjust by 1/2
• Adjust by 1/4
• Adjust by 1/8
• Adjust by 1/16
• Adjust by 1/32
• Adjust by 1/64

This parameter defines the dimming length of steps of the telegrams which are transmitted with a longer pressing.

⚠️ When “Dimming with cyclic intervals” is parameterized, attention must be paid to the fact that the dimming length of steps and the interval for the cyclical dimming are matched to the dimming time of the actuator.

6.8.8 Interval for cyclic dimming

Default value: • 0.5 seconds
Selection options: • 0.5 - 7.0 seconds

This parameter defines the duration of an interval for cyclical sending. If, for example, a “change ¼” and an "interval of 0.5 seconds" is set, then with a longer pressing of the push button on the corresponding local input, every 0.5 seconds ¼ brighter or darker will be dimmed.
6.9 Menu index card “General Binary inputs”

The parameters set here refer to the push button inputs 1 - 4.

6.9.1 Additional start-up delay
Default value: • 0 seconds
Selection options: • 0 seconds
• 0 - 21 seconds

This parameter defines the time which is needed after bus voltage return, until the first telegram can be transmitted.

6.9.2 Limit number of telegrams
Default value: • No
Selection options: • Yes
• No

This parameter opens the parameter to set the telegram rate limitation. In addition, the number of the telegrams which are transmitted cyclically per time unit can be limited.

6.9.3 Limit
Default value: • 127 telegrams per 17 sec.
Selection options: • 30 telegrams per 17 sec.
• 60 telegrams per 17 sec.
• 100 telegrams per 17 sec.
• 127 telegrams per 17 sec.

This parameter defines the number of the telegrams which can be transmitted within 17 seconds.
6.10 Menu index card “Electronic motors”

On this menu index card a start-up delay can be set for every single motor output.

6.10.1 Start delay Motor 1…4

Default value: • 0 seconds
Selection options: • 0 seconds
• 0 – 100 seconds

If electronic motors are controlled using this Motor Controller, it is imperative to set the start delay time of the electronic motor in the settings of the Motor Controller.
6.11 Menu index card “Bus safety”

On this menu index card, the reaction can be defined for every single motor output with bus power failure and bus power return.

6.11.1 Motor 1…4

6.11.1.1 Reaction at bus power failure
Default value:
- Ignore
- Upper end limit
- Lower end limit
- Ignore
- Intermediate position 1 (IP 1)
- Intermediate position 2 (IP 2)
- Close window
- Open window

This parameter defines the position which is moved to with a bus power failure.

6.11.1.2 Reaction at bus power failure
Default value:
- Ignore
- Upper end limit
- Lower end limit
- Ignore
- Intermediate position 1 (IP 1)
- Intermediate position 2 (IP 2)
- Close window
- Open window

This parameter defines the position which is moved to with a bus power failure.
6.11.2 Reaction at main power return (24 V) (for all motors)

Default value: • Ignore
Selection options: • Upper end limit
• Lower end limit
• Ignore
• Close window
• Open window

This parameter defines the position which is moved to with a mains power return (24 V).

6.11.3 Automatic cascading

Default value: • No
Selection options: • No
• Yes

If this parameter is set on “Yes”, the motor outputs with one second delay in each case move to the corresponding position. This delay time is taken into account with the start-up of the positions, which are generated from the settings “Reaction with bus voltage return” and “Reaction with mains voltage return (24 V)”.

⚠️ Advantage: Power spikes can thus be reduced in larger projects.
6.12 Menu index card “Feedback motor position”

On this menu index card the parameters can be selected to announce the position status of the individual blinds on the bus. In addition, the generated status positions are based on the parameterized move times and turn times of the menu index cards motor 1…4 or motor 1 - 4.

6.12.1 Feedback of status Upper/Lower end positions
Default value: | Yes
Selection options: | No

This parameter opens the parameter “Type of feedback Upper/Lower end positions”.

6.12.2 Type of feedback Upper/Lower end positions
Default value: | Combined if all are Up/Down
Selection options: | Individual

- Combined if all are Up/Down
  If this parameter is selected, the corresponding upper or lower end position is only announced on the bus, when all four blinds have reached the upper (object 85) or the lower (object 95) end position.

- Individual
  If this parameter is selected, the corresponding upper or lower end position is announced on the bus for each blind individually. Here, the objects in each case (81-84) and (91-94) are made available.

6.12.3 Motor 1…4 Feedback
Default value: | None
Selection options: | Up/Down position
| Slat position
| Up/Down and slat position
| None

value (0%)

value (100%)

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• **Up/Down position**
Using this parameter the position Up/Down is sent on the bus for the corresponding motor depending on the parameter “Type of messaging” “0” = upper/“255” = lower.

• **Slat position**
With this parameter the slat position is transmitted for the corresponding motor depending on the parameter “Type of messaging” on the bus. “0/255” = slats opened/“255/0” = slats closed. The value for the position of the slats which is transmitted over the corresponding object is dependent on the parameter settings on the menu index card “General”. Slats turn Closed/Turned ONLY WITH VENETIAN BLIND.

• **Up/Down and slat position**
With this parameter the position Up/Down and the position of the slats for the corresponding motor is transmitted on the bus depending on the parameter “Type of messaging”. “0” = upper/“255” = lower, “0/255” = slats opened/“255/0” = slats closed. The value for the position of the slats which is transmitted over the corresponding object is dependent on the parameter settings on the menu index card “General”. Slats turn Closed/Turned ONLY WITH VENETIAN BLIND.

• **None**
No positions on the bus are messaged.

### 6.12.4 Motor 1…4 Type of feedback

**Default value:**
- On demand

**Selection options:**
- On demand
- Status change
- Cyclic

• **On demand**
The current position of the blinds must be requested over object 50.

• **Status change**
The current position of the corresponding blind is transmitted after every position change on the bus. The position is transmitted on the bus when the destination position is reached.

• **Cyclic**
This parameter opens a further parameter (“Every”) with which the time for cyclical sending is set.

### 6.12.5 Every

**Default value:**
- 5 seconds

**Selection options:**
- 5 seconds
- 10 seconds
- 20 seconds
- 30 seconds
- 60 seconds

⚠️ With this parameter it is defined in which time intervals the current position of the corresponding blinds are messaged. The current position of the blinds is transmitted on the bus.
6.13 index card “General Radio inputs”

<table>
<thead>
<tr>
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<th>Radio binary input 1</th>
<th>Radio binary input 2</th>
<th>Radio binary input 3</th>
<th>Radio binary input 4</th>
<th>Radio binary input 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

6.13.1 Radio binary input 1…5

Default value: • No
Selection options: • No • Yes

With the parameter “Yes” additional menu index cards “Radio binary input 1…5” become visible. At the same time the necessary objects appear.

6.14 General information for radio input

For every radio input there are five different basic functions for selection:

Default value: • Venetian blind, Up/Down • Venetian blind, Up/Down • Switch • 8-Bit value (rising edge) • Dimming • Venetian blind slow tilting

Selection options: • Venetian blind, Up/Down • Venetian blind, Up/Down • Switch • 8-Bit value (rising edge) • Dimming • Venetian blind slow tilting

The single functions and parameters which arise depending on the selection of the basic functions are now described. To illustrate this, another basis function has been selected for each radio input. The functions are described with the help of the radio input 1 (channel A) and are identical for the radio inputs 2 - 5 (channel B, C, D and E).
6.15 Menu index card “Radio inputs – Venetian blinds Up/Down”

6.15.1 Basic Function
Selected option: • Venetian blind, Up/Down

6.15.2 Long operation (action) after
Default value: • 0.5 seconds
Selection options: • 0.3...5.0 seconds

This parameter defines the activity time of the corresponding transmitter push button which distinguishes between the sending of a short-term telegram (Step/Stop) and a long-term telegram (Up/Down). If the time, for example, is parameterized on 0.5 seconds, then only after a pressing of more than 0.5 seconds is a long-term telegram generated. With a pressing of the push button which is shorter than 0.5 seconds, a short-term telegram is generated.

6.15.3 Functionality of my push button
Default value: • No function
Selection options: • 1-Bit value
• 8-Bit value
• No function

6.15.3.1 1-Bit value
Default value: • On
Selection options: • On
• Off
• Toggle
• No function

• On
If the “my” button in the radio transmitter is pressed, the object value “On” is generated. The duration of the activity is not evaluated.
• **Off**
  If the "my" button in the radio transmitter is pressed, the object value “Off” is generated. The duration of the activity is not evaluated.

• **Toggle**
  If the “my” button in the radio transmitter is pressed, the object value toggles between “On” and “Off”. The duration of the activity is not evaluated.

• **No function**
  If the “my” button in the radio transmitter is pressed, no object is generated. △ See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

### 6.15.3.2 8-Bit value

**Default value:**  
- 0

**Selection options:**  
- 0
- 0 – 255

With this parameter the value (0 – 255) is set which is transmitted while pressing the “my” button in the radio transmitter.

### 6.15.3.3 No function

If the “my” button in the radio transmitter is pressed, no object is generated.

### 6.16 Menu index card “Radio inputs – Switch”

#### 6.16.1 Basic Function

**Selected option:**  
- Switch
6.16.2 Functionality of the Up push button

Default value:
- On

Selection options:
- On
- Off
- Toggle
- No function

- On
  If the “Up” button in the radio transmitter is pressed, the object value “On” is generated. The duration of the activity is not evaluated.

- Off
  If the “Up” button in the radio transmitter is pressed, the object value “Off” is generated. The duration of the activity is not evaluated.

- Toggle
  If the “Up” button in the radio transmitter is pressed, the object value toggles between “On” and “Off”. The duration of the activity is not evaluated.

- No function
  If the “Up” button in the radio transmitter is pressed, no object is generated.

△ See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

6.16.3 Functionality of the Down push button

Default value:
- Off

Selection options:
- On
- Off
- Toggle
- No function

- On
  If the “Down” button in the radio transmitter is pressed, the object value “On” is generated. The duration of the activity is not evaluated.

- Off
  If the “Down” button in the radio transmitter is pressed, the object value “Off” is generated. The duration of the activity is not evaluated.

- Toggle
  If the “Down” button in the radio transmitter is pressed, the object value toggles between “On” and “Off”. The duration of the activity is not evaluated.

- No function
  If the “Down” button in the radio transmitter is pressed, no object is generated.

△ See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

6.16.4 Functionality of my push button

Default value:
- No function

Selection options:
- 1-Bit value
- 8-Bit value
- No function
6.16.4.1 1-Bit value

Default value:
- On

Selection options:
- On
- Off
- Toggle
- No function

- On
If the “my” button in the radio transmitter is pressed, the object value “On” is generated. The duration of the activity is not evaluated.

- Off
If the “my” button in the radio transmitter is pressed, the object value “Off” is generated. The duration of the activity is not evaluated.

- Toggle
If the “my” button in the radio transmitter is pressed, the object value toggles between “On” and “Off”. The duration of the activity is not evaluated.

- No function
If the “my” button in the radio transmitter is pressed, no object is generated.

See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

6.16.4.2 8-Bit value

Default value:
- 0

Selection options:
- 0 – 255

With this parameter the value (0 – 255) is set which is transmitted while pressing the “my” button in the radio transmitter.

6.16.4.3 No function

If the “my” button in the radio transmitter is pressed, no object is generated.
### 6.17 Menu index card “Radio inputs – 8-Bit value”

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<tr>
<td>Radio binary input 5</td>
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<td></td>
</tr>
</tbody>
</table>

#### 6.17.1 Basic Function
**Selected option:** 8-Bit value (rising edge)

#### 6.17.2 Value of the Up push button
**Default value:** 0
**Selection options:** 0 – 255

With this parameter the value (0 – 255) is set which is transmitted while pressing the “my” button in the radio transmitter.

#### 6.17.3 Value of the Down push button
**Default value:** 0
**Selection options:** 0 – 255

With this parameter the value is set which is transmitted while pressing the “Down” button in the radio transmitter.

#### 6.17.4 Functionality of my push button
**Default value:** No function
**Selection options:** 1-Bit value, 8-Bit value, No function

#### 6.17.4.1 1-Bit value
**Default value:** On
**Selection options:** On, Off, Toggle, No function
• **On**
  If the “my” button in the radio transmitter is pressed, the object value “On” is generated. The duration of the activity is not evaluated.

• **Off**
  If the “my” button in the radio transmitter is pressed, the object value “Off” is generated. The duration of the activity is not evaluated.

• **Toggle**
  If the “my” button in the radio transmitter is pressed, the object value toggles between “On” and “Off”. The duration of the activity is not evaluated.

• **No function**
  If the “my” button in the radio transmitter is pressed, no object is generated.
  \* See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

6.17.4.2 **8-Bit value**

 Default value:  • 0
 Selection options:  • 0 – 255

 With this parameter the value (0 – 255) is set which is transmitted while pressing the “my” button in the radio transmitter.

6.17.4.3 **No function**

 If the “my” button in the radio transmitter is pressed, no object is generated.
6.18 Menu index card “Radio inputs – Dimming”

6.18.1 Basic Function
Selected option: • Dimming

6.18.2 Long operation (action) after
Default value: • 0.5 seconds
Selection options: • 0.3...5.0 seconds

This parameter defines the pressing time of the corresponding transmitter push button (Up/Down) which makes a distinction between the sending of a short-term telegram (On/Off) and a long-term telegram (Brighter/darker dimming). If the time, for example, is set at 0.5 seconds, a long-term telegram is generated after a longer pressing than 0.5 seconds. With a pressing duration which is shorter than 0.5 seconds, a short-term telegram is generated.

6.18.3 Dimming Brighter/Darker
Default value: • Adjust by ⅛
Selection options: • Adjust by 100 % ¹/₁₆

This parameter defines the dimming step length which is transmitted as a telegram with a long pressing of the push button.

6.18.4 Functionality of my push button
Default value: • No function
Selection options: • 1-Bit value
• 8-Bit value
• No function
6.18.4.1 1-Bit value

Default value: • On
Selection options: • On
• Off
• Toggle
• No function

- **On**
  If the “my” button in the radio transmitter is pressed, the object value “On” is generated. The duration of the activity is not evaluated.

- **Off**
  If the “my” button in the radio transmitter is pressed, the object value “Off” is generated. The duration of the activity is not evaluated.

- **Toggle**
  If the “my” button in the radio transmitter is pressed, the object value toggles between “On” and “Off”. The duration of the activity is not evaluated.

- **No function**
  If the “my” button in the radio transmitter is pressed, no object is generated.

△ See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

6.18.4.2 8-Bit value

Default value: • 0
Selection options: • 0 – 255

With this parameter the value (0 – 255) is set which is transmitted while pressing the “my” button in the radio transmitter.

6.18.4.3 No function

If the “my” button in the radio transmitter is pressed, no object is generated.
6.19 Menu index card “Radio inputs – Venetian blind slow tilting”

6.19.1 Basic Function
Selected option: • Venetian blind slow tilting

6.19.2 Long operation (action) after
This parameter defines the pressing time of the corresponding transmitter push button (Up/Down) which makes a distinction between the sending of a short-term telegram (Up/Down) and a long-term telegram (Open/Close). If the time, for example, is set at 0.5 seconds, a long-term telegram is generated after a longer pressing than 0.5 seconds. With a pressing duration which is shorter than 0.5 seconds, a short-term telegram is generated.

6.19.3 Tilt slats slowly Open/Close
This parameter defines the turn of the Venetian blinds which is transmitted as a telegram with a long pressing of the push button.

6.19.4 Functionality of my push button
Default value: • No function
Selection options: • 1-Bit value
• 8-Bit value
• No function

6.19.4.1 1-Bit value
Default value: • On
Selection options: • On
• Off
• Toggle
• No function
- **On**
  If the "my" button in the radio transmitter is pressed, the object value “On” is generated. The duration of the activity is not evaluated.

- **Off**
  If the "my" button in the radio transmitter is pressed, the object value “Off” is generated. The duration of the activity is not evaluated.

- **Toggle**
  If the “my” button in the radio transmitter is pressed, the object value toggles between “On” and “Off”. The duration of the activity is not evaluated.

- **No function**
  If the “my” button in the radio transmitter is pressed, no object is generated.
  \( \Delta \) See chapter 1 Definitions for On (“1”) Off (“0”) Toggle (“1/0”).

### 6.19.4.2 8-Bit value

**Default value:** 0  
**Selection options:** 0 – 255

With this parameter the value (0 – 255) is set which is transmitted while pressing the “my” button in the radio transmitter.

### 6.19.4.3 No function

If the “my” button in the radio transmitter is pressed, no object is generated.
## 7 Technical data

<table>
<thead>
<tr>
<th>KNX 4 DC Motor Controller</th>
<th>WM Ref. 1870452</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>24 V DC (min. 21.5 V DC - max. 28 V DC)</td>
</tr>
<tr>
<td>Stand-by current (IEC 62301)</td>
<td>50 mA @ 24 V DC</td>
</tr>
<tr>
<td>Stand-by power (IEC 62301)</td>
<td>300 mW @ 24 V DC</td>
</tr>
<tr>
<td>Supply voltage from KNX Bus</td>
<td>KNX-voltage 21 ... 30 V DC, SELV</td>
</tr>
<tr>
<td>Rated current consumption KNX</td>
<td>As per KNX guidelines, 10mA</td>
</tr>
<tr>
<td>Max. motor current consumption</td>
<td>4 x 2.3 A @ 24 V DC</td>
</tr>
<tr>
<td>Supply voltage of group control input</td>
<td>SELV, 16 V DC =</td>
</tr>
<tr>
<td>Supply voltage of local push buttons</td>
<td>SELV, 16 V DC =</td>
</tr>
<tr>
<td>Terminals</td>
<td>Spring connectors</td>
</tr>
<tr>
<td>Relay micro-gap</td>
<td>μ</td>
</tr>
<tr>
<td>Terminal KNX</td>
<td>KNX bus terminal (black/red)</td>
</tr>
<tr>
<td>Running time per output</td>
<td>Max. 5 minutes</td>
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<tr>
<td>Operating temperature</td>
<td>-5°C to 45°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>max. 85%</td>
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<tr>
<td>Material of housing</td>
<td>PC-ABS</td>
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<td>Degree of protection</td>
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</tr>
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<td>Protection class</td>
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</tr>
<tr>
<td>Conformity</td>
<td><a href="http://www.somfy.com/ce">www.somfy.com/ce</a></td>
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</tbody>
</table>