

Shutter Actuator with Manual Operation, 8-fold, 230 VAC, MDRC JA/S 8.230.1M, GH Q631 0078 R0111



The Shutter Actuator JA/S 8.230.1M is used to control a maximum of eight independent 230 VAC drives for positioning shutters, blinds, awnings and other hangings as well as for controlling doors, windows and ventilation flaps.

Push buttons are located at the front of the device which are used to raise and lower the shutter/blind manually, to stop shutter movement and for louvre adjustment. The current direction of movement or the current position is displayed via LEDs. Depending on requirements, manual operation is possible either with mains voltage and no bus voltage or with bus voltage and no mains voltage.

The output contacts for the directions UP and DOWN are mechanically interlocked so that voltage cannot be applied at both contacts at the same time. The pause on change in direction can be set via the parameters.

The Shutter Actuator is a DIN rail mounted device for insertion in the distribution board. It is connected to the ABB i-bus® EIB via a Bus connection terminal.

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Technical data

Power supply	– Operating voltage	21...30 VDC, via the EIB for bus operation or manual operation with bus voltage or 230 VAC + 10/– 15 %, 45 ... 65 Hz for manual operation without bus voltage
	– Current input	typ. 10 mA
	– Power consumption via EIB	< 250 mW
Outputs	– Power consumption 230 VAC	< 1 W
	– Number of outputs	8 independent outputs, each with 1 changeover contact (UP/DOWN mechanically interlocked)
	– Nominal voltage	230 VAC
	– Max. switching current	6 A (AC1/AC3) at 230 VAC or 6 A (AC1/AC3) at 400 VAC
	– Min. switching current	100 mA at 5 V or 10 mA at 10 V or 1 mA at 24 V
Operating and display elements	– Red LED and push button	for entering the physical address
	– Manual operation	2 push buttons per output for UP and DOWN (long operation) or STOP/louvre adjustment (short operation)
	– Display of direction of travel/position	2 LEDs per output for UP and DOWN or top/bottom
	– Operating mode	1 push button for toggling between manual operation and operation via the EIB
Connections	– Display of operating mode	1 LED for displaying the mode
	– Load circuits	4 screw terminals for phase connection (e.g. L1 and L2)
		2 screw terminals per output for UP and DOWN
	– 230 VAC auxiliary voltage	2 screw terminals for L 2 screw terminals for N Wire range: finely-stranded: 0.2 – 2.5 mm ² single-core: 0.2 – 4.0 mm ²
Type of protection	– EIB	Bus connection terminal (black/red)
	– IP 20, EN 60 529	

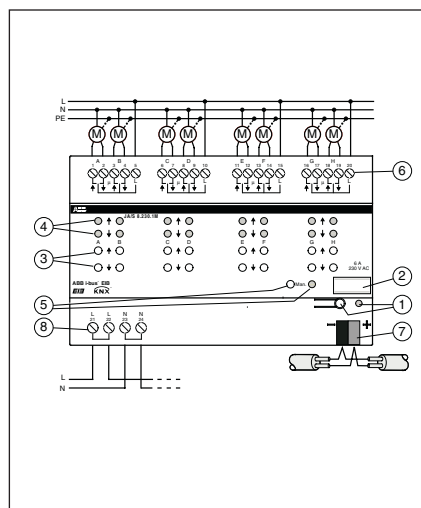
Ambient temperature range	– Operation	– 5 °C ... + 45 °C
	– Storage	– 25 °C ... + 55 °C
	– Transport	– 25 °C ... + 70 °C
Design	– Modular installation device, proM	
Housing, colour	– Plastic housing, grey	
Mounting	– on 35 mm mounting rail, DIN EN 50 022	
Dimensions	– 90 x 144 x 64 mm (H x W x D)	
Mounting depth/width	– 68 mm/8 modules at 18 mm	
Weight	– 0.52 kg	
Mounting position	– as required	
Certification	– EIB- and KNX-certified	
CE norm	– in accordance with the EMC guideline and the low voltage guideline	

Application programs

	Max. number of communication objects	Max. number of group addresses	Max. number of associations
Shutter, 8f M/1	240	254	254

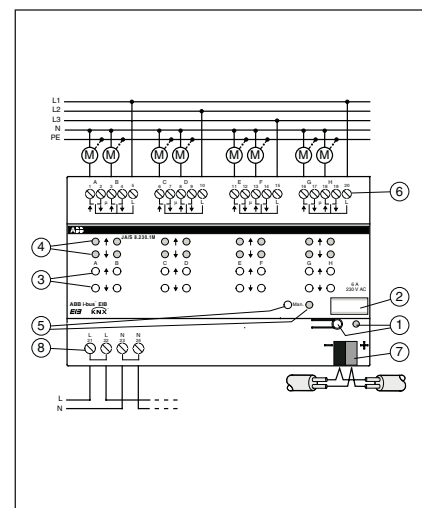
Circuit diagram

“Shutter” and “Blinds” operating modes



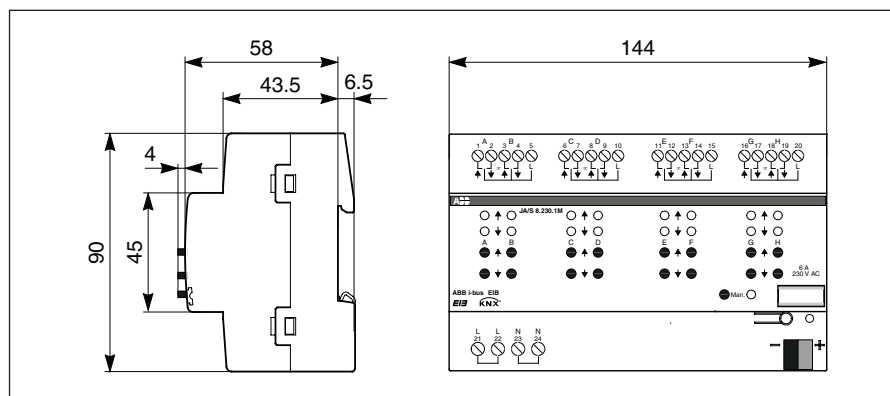
- 1 Programming LED, push button
- 2 Marker Tag
- 3 Push buttons Up/Down/Stop/Step
- 4 LED Position

“Ventilation flaps” operating mode



- 5 LED and push button “Man.”
- 6 Connection terminals
- 7 Bus terminal
- 8 230 V supply voltage

Dimension drawing



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Note

The programming is carried out with ETS from version ETS2 V1.2a onwards.

To guarantee all the programmable functions, in particular the UP/DOWN directions of travel, it is important to ensure that the drive has been connected properly. The technical data supplied by the drive manufacturer must be taken into account!

If the outputs are switched several times in rapid succession, the switching of the output contacts is delayed.

The following process should be carried out during the initial commissioning of the shutter actuator:

1. Install and wire up the shutter actuator.
2. **First** connect the EIB voltage or 230 VAC auxiliary voltage. The output contacts automatically adopt the neutral position.
3. Only **then** connect the 230 VAC operating voltage for the shutter outputs.



If the preselected parameter settings have been modified during programming, the output contacts adopt the specified Position on bus voltage recovery once the EIB voltage has been connected.

The function “ventilation flaps/switch mode” may be inverted by connecting the load to the “Down” terminal instead of the “Up” terminal (e.g. terminal “2” instead of terminal “3”).



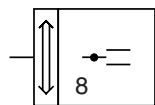
Depending on the position of the output contact, also the non-connected terminals are under voltage!

The Shutter Actuator is supplied with a downloaded application program. It is therefore only necessary to download the group addresses and parameters during commissioning. The complete application program can also be downloaded if required. Therefore the device must be unloaded. If the device is unloaded, it cannot be operated manually.



When delivered, the manual operation works according to the “Blinds” operation mode. If shutter, ventilation flaps or switching loads are connected, the shutter actuator must be programmed first. Only then the manual operation works accordingly!

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Shutter, 8f M/1**Selection in ETS2**

- ABB
 - └ Shutter
 - └ Switch

Communication objects in the operating modes

- “Shutter” and
- “Blinds”

“Direct” communication objects**Move shutter Up-Down****Move blinds Up-Down**

If a telegram with the value “0” is received at this communication object, the shutter/blind is raised. If a telegram with the value “1” is received, the shutter/blind is lowered. The output contact reverts to the neutral position once the total travel time has elapsed.

Telegram value:

- “0”: UP
- “1”: DOWN

Louvre adj. /Stop Up-Down**Stop Up-Down**

If the shutter/blind is in motion, the movement is stopped on receipt of a telegram at this communication object, regardless of whether a “0” or a “1” is received.

“Blinds” operating mode: If the shutter is idle, it is raised (“0”) or lowered (“1”) for the duration of the louvre adjustment and then stopped on receipt of a telegram at this object.

“Shutter” operating mode: If the blind is idle, no action is carried out on receipt of a telegram at this communication object.

Telegram value:

- “0”: Stop/louvre adj. UP
- “1”: Stop/louvre adj. DOWN

Move to position 0...255

If a telegram is received at this communication object, the shutter/blind moves to the corresponding position for the received value.

Telegram value:

- “0”: Top
- “...”: Intermediate position
- “255”: Bottom

After reaching the target position, the louvres are positioned as before. Only if during the shutter/blind movement a telegram was received on the communication object “Move louvres 0...255”, the louvres will be positioned accordingly.

Move louvres 0...255

If a telegram is received at this communication object, the louvres are positioned according to the received value. If the shutter/blind is already in motion, it is first moved to the target position and then the positioning of the louvres is carried out.

Telegram value:

- “0”: Louvres opened to maximum
- “...”: Intermediate position
- “255”: Louvres closed to maximum

Move to position 1/2**Move to position 3/4**

If a telegram is received at this communication object, the shutter/blind is moved to the stored preset position. In the “Blinds” operating mode, the louvre adjustment is carried out according to the preset position once the position has been reached.

If a telegram with the value “0” is received, the shutter/blind moves to position 1 (or position 3). If a telegram with the value “1” is received, the shutter/blind is moved to position 2 (or position 4).

Telegram value:

- “0”: Move to position 1 or
Move to position 3
- “1”: Move to position 2 or
Move to position 4

Set position 1/2**Set position 3/4**

If a telegram is received at this communication object, the current position of the shutter/blind is adopted as the new preset value.

If a telegram with the value “0” is received, the current position is stored as the new preset value for position 1 (or position 3). If a telegram with the value “1” is received, the current position is stored as the new preset value for position 2 (or position 4). If position 1 or 2 is now recalled (position 3 or 4), the shutter/blind moves to the new preset values.

The modified preset values are retained on bus voltage failure. After programming the shutter actuator, the preset values are reset to the values that were parameterised during the project design stage or the values adapted in operation are stored, depending on parameterization.

Telegram value:

- “0”: Set position 1 or
Set position 3
“1”: Set position 2 or
Set position 4

Shutter Up-Down limited Blinds Up-Down limited

If a telegram with the value “0” is received at this communication object, the shutter/blind is raised. If a telegram with the value “1” is received, the shutter/blind is lowered. The shutter/blind is stopped if the *Upper limit* or the *Lower limit* of the travelling range is reached.

If telegrams are received on the communication object “Louvre adj./Stop Up-Down”, the shutter/blind can be moved in steps external to the set limits.

If the shutter/blind is positioned in a higher position than the upper limit, no reaction will be carried out after a telegram with the value “0” and it is moved down after a telegram with the value “1”. If the shutter/blind is positioned in a lower position than the downer limit, no reaction will be carried out after a telegram with the value “1” and it is moved up after a telegram with the value “0”.

If the shutter actuator has not carried out a reference movement after programming, bus reset or bus voltage recovery, the shutter/blind is moved completely up or down when receiving a telegram on this communication object. It is not stopped at the upper or lower limit in this case.

Telegram value:

- “0”: UP
“1”: DOWN

Reference movement

If a telegram is received at this communication object, all the shutters/blinds which have the following settings are fully raised or fully lowered:

- the option “deactivated” has not been set for Position after reference movement
- the option “Ventilation flaps/switch mode” has not been set as the Operating mode
- no safety function has been activated and
- manual operation has not been activated.

The saved position is updated and the shutter/blind is moved into the set Position after reference movement. If the option “back to saved position” has been selected and automatic control was activated for the shutter/blind prior to the reference movement, automatic control is reactivated once the saved position has been reached.

Telegram value:

- “0”: Reference movement right to the top
“1”: Reference movement right to the bottom

Scene

Each output can be integrated into up to ten scenes with this communication object. A telegram is received which contains the number of the scene that is addressed together with the information about whether the shutter/blind is moved to the last saved position or whether the current position should be stored as the new preset value.

The stored scene values are retained in the event of a bus voltage failure and if only the parameters are downloaded during programming. If the complete application is downloaded again during programming, the scene value is reset to the position “right at the top”.

Telegram code: MXNNNNNN
NNNNNN:
0...63: Scene number
X: free (contains no information)
M: “0”: Recall scene
“1”: Store scene

“Automatic” communication objects

Activation of automatic control

If a telegram with the value “1” is received at this communication object, automatic control is activated for the corresponding output. The output is controlled via the “automatic” communication objects: “Sun”, “Presence”, “Heating” and “Cooling” as well as “Move to position for sun 0...255” and “Adjust louvres for sun 0...255”.

If a telegram with the value “0” is received, the shutter/blind remains in the current position and no longer reacts to incoming telegrams at the “automatic” communication objects. If the shutter is in the process of carrying out an automatic movement command, the action is carried out.

Telegram value:

- "0": Automatic control deactivated
- "1": Automatic control activated

Sun

Incoming telegrams at this communication object are only taken into account if the communication object "Activation of automatic control" has the value "1".

If a telegram with the value "1" is received at the communication object "Sun", the shutter/blind moves to the set *Position for sun* = "1". If a telegram with the value "0" is received, the shutter/blind moves to the set *Position for sun* = "0".

The reaction to an incoming telegram can be carried out with a time delay via the parameters *Delay for sun* = "1" and *Delay for sun* = "0" so that the shutter/blind is not continually raised and lowered when there are frequent changes in the weather. If a telegram with the opposite value is received within the delay period, the shutter/blind does not move to the *Position for sun* = "1" and remains in the *Position for sun* = "0" or vice versa.

If the option "receive position via 8 bit value" has been set for the parameter *Position for sun* = "1", the output moves once the delay period has elapsed to the position that was last received at the communication objects "Move to position for sun 0...255" ("Shutter" and "Blinds" operating modes) and "Adjust louvres for sun 0...255" ("Blinds" operating mode only).

Telegram value:

- "0": No sun
- "1": Sun

Move to position for sun 0...255

Incoming telegrams at this communication object are only executed if automatic control has been activated ("Activation of automatic control" = "1") and the sun is shining ("Sun" = "1"). The shutter/blind is then positioned according to the received value.

After reaching the target position, the louvres are positioned as before. Only if during the shutter/blind movement a telegram was received on the communication object "Adjust louvres for sun 0...255", the louvres will be positioned accordingly.

Telegram value:

- "0": Top
- "...": Intermediate position
- "255": Bottom

Adjust louvres for sun 0...255

Incoming telegrams at this communication object are only executed if automatic control has been activated ("Activation of automatic control" = "1") and the sun is shining ("Sun" = "1"). The louvres are then positioned according to the received value.

The movement command "Move to position for sun 0...255" is always executed first. Once the target position is reached, the positioning of the louvres is carried out.

Telegram value:

- "0": Louvres opened to maximum
- "...": Intermediate position
- "255": Louvres closed to maximum

Presence

Incoming telegrams at this communication object are only taken into account if the communication object "Activation of automatic control" has the value "1".

Using the communication object "Presence", it is possible to toggle between automatic sun protection and automatic heating/cooling. If a telegram with the value "1" is received at the object "Presence", the shutter/blind is only controlled via the communication object "Sun" (automatic sun protection). If a telegram with the value "0" is received, the shutter/blind is controlled via the communication objects "Sun", "Heating" and "Cooling" (automatic heating/cooling).

The reaction to an incoming telegram can be carried out with a time delay via the parameters *Delay for presence* = "1" and *Delay for presence* = "0". If a telegram with the opposite value is received within the delay period, the period is restarted. If a telegram with the same value is received, the delay period is not restarted. The shutter/blind moves to the target position once the delay has elapsed.

Telegram value:

- "0": No-one is present
(→ automatic heating/cooling)
- "1": Someone is present
(→ automatic sun protection)

Heating**Cooling**

Incoming telegrams at these communication objects are only taken into account if the communication object "Activation of automatic control" has the value "1" and the communication object "Presence" has the value "0".

If a telegram with the value "1" is received at the communication object "Heating", the output moves to the set *Position for heating = "1" and sun = "1" or Position for heating = "1" and sun = "0"*.

If a telegram with the value "1" is received at the communication object "Cooling", the output moves to the set *Position for cooling = "1" and sun = "1" or Position for cooling = "1" and sun = "0"*.

If a "0" or a "1" is received at both communication objects, the automatic heating/cooling mode is deactivated and the output is controlled via the automatic sun protection.

Telegram value:

- "0": No heating/no cooling
- "1": Heating/cooling

Enable/disable automatic control

If a telegram with the value "1" is received at this communication object, automatic control is automatically deactivated and the output can only be controlled via the "direct" communication objects. Automatic control can no longer be activated via the communication object "Activation of automatic control".

If a telegram with the value "0" is received at this communication object, automatic control can be reactivated for the corresponding output.

Telegram value:

- "0": Automatic control enabled
- "1": Automatic control disabled

Enable/block direct operation

If a telegram with the value "1" is received at this communication object, the output switches automatically from direct operation to automatic control. Automatic control can no longer be deactivated via the communication object "Activation of automatic control" or the "direct" communication objects.

Incoming telegrams at the direct communication objects are not executed.

If a telegram with the value "0" is received at this communication object, automatic control can be deactivated again for the corresponding output.

Telegram value:

- "0": Direct operation enabled
- "1": Direct operation blocked

"Safety" communication objects**Wind alarm no. X****Rain alarm****Frost alarm**

These communication objects expect cyclical telegrams. If a telegram with the value "0" is received within the monitoring period, the associated outputs can be controlled via the "direct" and "automatic" communication objects.

If no telegrams or a telegram with the value "1" are received during the monitoring period, the shutters/blinds are moved to the set *Position for wind alarm* (for rain alarm or frost alarm). Operation via the "direct" and "automatic" communication objects is disabled.

If a telegram with the value "0" is received again for the first time after a weather alarm or once the monitoring period has been exceeded, the shutters/blinds are moved to the *Position on reset of weather alarm, blocking and forced operation* and operation via the "direct" and "automatic" communication objects is enabled again.

The monitoring period is restarted after each receipt of a telegram, after the programming of the actuator and on bus voltage recovery.

If the parameter *Position for wind alarm* has been set to "no reaction", a wind alarm is not carried out for the respective output and the cyclical monitoring of the object is not taken into account. The same applies to the rain alarm and frost alarm functions.

If more than one wind object has been assigned to a shutter/blind, the values in the associated communication objects "Wind alarm no. X" are logically linked via an OR gate i.e. if there is a wind alarm at one of the assigned communication objects (or a telegram is omitted within the monitoring period), the shutter/blind remains in the *Position for wind alarm* until there are no wind alarms at any of the assigned objects.

Telegram value:

- "0": No alarm (operation enabled)
- "1": Alarm (operation blocked)

Block

If a telegram with the value "0" is received at this communication object, the output can be operated via the "direct" and "automatic" communication objects. If a telegram with the value "1" is received, the output moves to the set *Position for blocking*. The operation of the output via the "direct" and "automatic" communication objects is disabled.

If a telegram with the value "0" is received for the first time after a "1", the shutter/blind moves into the *Position on reset of wind alarm, blocking and forced operation* and operation via the "direct" and "automatic" communication objects is enabled again.

Telegram value:

- "0": Operation enabled
- "1": Operation blocked

Forced operation

If a telegram with the value "2" (binary 10) is received at this communication object, the shutter/blind is raised. Operation via the "direct" and "automatic" communication objects is blocked. If a telegram with the value "3" (binary 11) is received, the shutter/blind is lowered. Operation via the "direct" and "automatic" communication objects is blocked.

If a telegram with the value "0" (binary 00) or "1" (binary 01) is received at this communication object, the shutter/blind moves into the *Position on reset of wind alarm, blocking and forced operation* and operation via the "direct" and "automatic" communication objects is enabled again.

Telegram value:

- "0" (binary 00): Operation enabled
- "1" (binary 01): Operation enabled
- "2" (binary 10): UP/operation blocked
- "3" (binary 11): DOWN/operation blocked

"Status response" communication objects



Never set the Write-flag for "Status response" communication objects!



The "Status response" communication objects don't send their value, in case the value has not been actualized, e.g. if no reference position has been reached after a bus voltage break down!

Telegr. status of position 0...255

The Shutter Actuator sends the current position of the shutter/blind to this communication object.

The current position is sent approx. 5 seconds after the completion of a movement. If a new movement is started in the meantime, the current position is only sent once the last action has been completed.

Telegram value:

- "0": Top
- "...": Intermediate position
- "255": Bottom

Telegr. status of louvres 0...255

The Shutter Actuator sends the current position of the louvres to this communication object. The current position is sent approx. 5 seconds after the completion of a movement. If a new movement is started in the meantime, the current position is only sent once the last action has been completed.

Telegram value:

- "0": Louvres opened to maximum
- "...": Intermediate position
- "255": Louvres closed

Telegr. status of upper position

The Shutter Actuator sends the information to this communication object as to whether the shutter/blind is located in the upper limit position or not.

The current position is sent approx. 5 seconds after the completion of a movement. If a new movement is started in the meantime, the current position is only sent once the last action has been completed.

Telegram value:

- "0": Shutter/blind not in upper limit position
- "1": Shutter/blind in upper limit position

Telegr. status of lower position

The Shutter Actuator sends the information to this communication object as to whether the shutter/blind is located in the lower limit position or not. The current position is sent approx. 5 seconds after the completion of a movement. If a new movement is started in the meantime, the current position is only sent once the last action has been completed.

Telegram value:

- "0": Shutter/blind not in lower limit position
- "1": Shutter/blind in lower limit position



If on both communication objects "Telegr. status of upper position" and "Telegr. status of lower position" a "1" is sent at the same time, the actuator does not know the position of the shutter/blind. The values of the position communication objects are not valid!

Telegr. status of operation

The Shutter Actuator sends the information to this communication object as to whether operation via the "direct" and "automatic" communication objects has been enabled or disabled.

Operation is disabled if one of the "safety" functions has been activated (e.g. wind alarm) or if the Shutter Actuator has been switched to manual operation (e.g. via the push button "Man.") or if both, direct and automatic control is disabled via communication object. The status is sent after a change.

Telegram value:

- "0": Operation enabled
- "1": Operation blocked

Telegr. status of automatic control

The Shutter Actuator sends the information to this communication object as to whether automatic control (automatic sun protection or automatic heating/cooling) has been activated.

Automatic control is activated if a telegram with the value "1" has been received at the communication object "Activation of automatic control" and neither the safety functions nor manual operation have been activated. The status is sent after a change.

Telegram value:

- "0": Automatic control not activated
- "1": Automatic control activated

Telegr. status byte

The Shutter Actuator sends the information about the current operating mode of the output to this communication object. Only one operating mode can be activated at the same time. The status byte is sent after a change.

Telegram code: 76543210

- "0": Not activated
- "1": Activated
- 7: Automatic sun protection
- 6: Automatic heating/cooling
- 5: Wind alarm
- 4: Rain alarm
- 3: Frost alarm
- 2: Forced operation
- 1: Block
- 0: Manual operation

"Manual" communication objects

Enable/block manual operation

The manual operation of the Shutter Actuator can be enabled or disabled via this communication object.

If this communication object has the value "0", the Shutter Actuator can be switched to manual operation via the "Man." push button on the device. If this communication object has the value "1", the Shutter Actuator can only be operated via the EIB.

If the Shutter Actuator is in manual mode and a telegram with the value "1" is received, the Shutter Actuator switches automatically to operation via EIB.

Telegram value:

- "0": Manual operation enabled
- "1": Manual operation blocked

Telegr. status of manual operation

The Shutter Actuator sends the information to this communication object about whether manual operation or operation via EIB has been activated. The status of manual operation is sent after a change.

Telegram value:

- "0": Operation via EIB
- "1": Manual operation

Telegr. status of auxiliary voltage

The Shutter Actuator sends the information to this communication object about whether the 230 VAC auxiliary voltage has been connected. The status of the auxiliary voltage is sent after a change.

Telegram value:

- "0": 230 V auxiliary voltage not OK
- "1": 230 V auxiliary voltage OK

Communication objects in the operating mode "Ventilation flaps/switch mode"

Ventilation flaps Open-Closed/On-Off

The output contact closes if a telegram with the value "1" is received at this communication object. The connected ventilation flaps are thereby opened or the connected loads are switched on.

If a telegram with the value "0" is received, the ventilation flaps are closed or the loads are switched off. The output contact reverts to the neutral position.

Telegram value:

- "1": Open/On
- "0": Closed/Off

"Safety" communication objects

The "safety" communication objects

- Wind alarm no. X
- Rain alarm
- Frost alarm
- Block
- Forced operation

carry out the same function in the operating mode "Ventilation flaps/switch mode" as in the operating modes "Shutter" and "Blinds".

Telegr. status Open-Closed/On-Off

If the Shutter Actuator sends the information to this communication object as to whether the ventilation flaps are opened or closed or the connected loads are switched on or off. The current status is always sent after a change.

Telegram value:

- "0": Ventilation flaps CLOSED/switch contact OFF
- "1": Ventilation flaps OPEN/switch contact ON

Telegr. status of operation

The Shutter Actuator sends the information to this communication object as to whether operation has been enabled or blocked via the communication objects "Ventilations flaps Open-Closed/On-Off" and "Scene".

Operation is blocked if one of the "safety" functions has been activated (e.g. wind alarm) or if the Shutter Actuator has been switched to manual operation (e.g. via the push button "Man."). The operational status is sent after a change.

Telegram value:

- "0": Operation enabled
- "1": Operation blocked

Telegr. status byte

The Shutter Actuator sends the information about the current operating mode of the output to this communication object. Only one operating mode can be activated at the same time.

The status byte is sent after a change.

Telegram code: 76543210

- "0": Not activated
- "1": Activated

- 7: "0" (not used)
- 6: "0" (not used)
- 5: Wind alarm
- 4: Rain alarm
- 3: Frost alarm
- 2: Forced operation
- 1: Block
- 0: Manual operation

Parameters

Some of the parameters of the application program can be hidden or displayed via the button "High Access"/"Low Access". The default values are described in the technical data sheets.

"A...X - Safety" parameter window

Order of priority for safety functions

For defining the priority between the safety functions of weather alarm, blocking and forced operation.

Order of priority for weather alarm functions

For defining the priority between the weather alarm functions of wind alarm, rain alarm and frost alarm.

Communication object no. X for wind alarm

If the option "activated" is selected, the communication object "Wind alarm no. X" appears.

Monitoring period for wind alarm [s]

Monitoring period for rain alarm [s]

Monitoring period for frost alarm [s]

For setting the monitoring period for the wind alarm, rain alarm or frost alarm in seconds. The monitoring period in the Shutter Actuator should be at least twice as long as the cyclical sending time of the sensor so that the shutters/blinds are not immediately moved to the alarm position due to the negligible omission of a signal (e.g. due to a high bus load).

If the value of this parameter is set to "0", the monitoring of the communication object is deactivated.

Rain alarm

Frost alarm

If the option "activated" is selected, the communication object "Rain alarm" or "Frost alarm" appears.

"Manual" parameter window

Manual operation

The parameter *Manual operation* defines whether the toggling between the operating states "Manual operation" and "Operation via EIB" via the "Man." push button on the Shutter Actuator is enabled or blocked. If the option "enable/disable via communication object" is selected, the communication object "Enable/block manual operation" appears.

Reset manual operation to operation via EIB

This parameter defines how long the Shutter Actuator remains in "Manual operation" once the "Man." push button has been pressed. If the option "via push button" is selected, the Shutter Actuator remains in manual mode until the "Man." push button is pressed again. If the option "automatically and via push button" is selected, the parameter *Time for automatic reset* appears. After the last push button action, the Shutter Actuator remains in manual operation until either the "Man." push button is pressed again or the set period for an automatic reset has elapsed.

Time for automatic reset [s]

For setting the period for an automatic reset from "Manual operation" to "Operation via EIB" after the last push button operation.

Send status of manual operation

If the option "yes" is selected, the communication object "Telegr. status of manual operation" appears.

Send status of auxiliary voltage

If the option "yes" is selected, the communication object "Telegr. status of auxiliary voltage" appears.

Parameters in the operating modes "Shutter" and "Blinds"

"A - General" parameter window

Operating mode

The operating mode is set via this parameter. The communication objects and the parameters for the respective output differ depending on the operating mode. The parameters for the operating modes "Shutter" and "Blinds" are described in the following section.

Position on bus voltage failure

For setting the behaviour on bus voltage failure. If the option "no reaction" is set, the output contacts remain in their current position. In the option "Stop", the shutter/blind is halted immediately. The output contact reverts to the neutral position. The output contact reverts to the neutral position. If the option "Position X" is selected, the shutter/blind first moves right to the top after bus voltage recovery (reference movement) before it travels to the set position.

Position after programming and bus reset

For setting the behaviour after programming or bus reset. If the option "no reaction" is set, the output contacts remain in their current position. In the option "Stop", the shutter/blind is halted immediately. The output contact reverts to the neutral position. If the option "Position X" is selected, the shutter/blind first moves right to the top after programming (reference movement) before it travels to the set position.

Automatic control

The communication objects "Activation of automatic control" and "Sun" as well as the parameter window "Auto 1" appear if the option "activated" is selected.

8 bit scene

If the option "yes" is selected, both the communication object "Scene" and the parameter window "Scene" appear.

Position after reference movement

If the option "no reaction" or "back to saved position" is selected, the communication object "Reference movement" appears.

This parameter specifies how the Shutter Actuator behaves after a reference movement. If the option "no reaction" is set, the shutter/blind remains in the reference position i.e. right at the top or right at the bottom. If the option "back to the saved position" is set, the shutter/blind is moved back to the position it occupied prior to the reference movement. If automatic control was activated for the shutter/blind prior to the reference movement, automatic control is reactivated once the saved position has been reached.

"Drive" parameter window

Total travel time [s]

For setting the total travel time in seconds.

Duration of louvre adjustment [ms] (only in the "Blinds" operating mode)

For setting the duration of louvre adjustment in milliseconds.

Pause on change in direction [ms]

For setting the pause on change in direction in milliseconds.



The technical data supplied by the manufacturer of the drive must be taken into account!

Max. number of louvre adjustments
(only in the "Blinds" operating mode)
For setting the maximum number of louvre adjustments.

Start-up delay [ms]

For setting the start-up delay for the drive in milliseconds.

Deceleration delay [ms]

For setting the deceleration delay for the drive in milliseconds.

Limit travelling range

If the option "yes" is selected, the communication object "Shutter Up-Down limited" or "Blinds Up-down limited" appears together with the parameters "Upper limit" and "Lower limit".

Upper limit 0..100 %

Lower limit 0..100 %

For setting the upper or lower limit of the travelling range.

"Safety" parameter window

Output reacts to communication object for wind alarm no.

This parameter specifies which wind alarm objects the output reacts to. The values of the linked communication objects are connected with an OR function.



This parameter must be set to "Output does not react on wind alarm" if no wind alarm communication object is used!

Position for wind alarm

Position for rain alarm

Position for frost alarm

For setting the behaviour in the event of a weather alarm. In the option "Stop", the shutter/blind is halted immediately. The output contact reverts to the neutral position. If the option "no reaction" is set, the current

Disable via communication object

If the option "activated" is selected, the communication object "Block" appears as well as the parameter *Position for blocking*.

Position for blocking

For setting the behaviour during disable mode. If the option “no reaction” is set, the current movement is carried out in full. In the option “Stop”, the shutter/blind is halted immediately. The output contact reverts to the neutral position.

Forced operation (2 bit)

The communication object “Forced operation” appears if the option “activated” is selected.

Position on reset of weather alarm, blocking and forced operation

This parameter defines how the output behaves after a safety alarm. If the option “no reaction” is set, the current movement is carried out in full. In the option “Stop”, the shutter/blind is halted immediately. The output contact reverts to the neutral position.

In the option “move to saved position”, the shutter/blind moves to the position it occupied prior to the safety alarm. If automatic control was activated when the safety alarm occurred, it is reactivated.

If in the meantime telegrams are received on the move to position objects (e.g. “Move to position 1/2” or “Move to position 0...255”), the shutter/blind will be positioned accordingly.

“Status” parameter window**Send position: 0...255**

If the option “yes” is selected, the communication objects “Telegr. status of position” (“Shutter” and “Blinds” operating modes) and “Telegr. status of louvres” (only in “Blinds” operating mode) appear.

Send position: limit position reached

If the option “yes” is selected, the communication objects “Telegr. status of upper position” and “Telegr. status of lower position” appear.

Send status of operation

If the option “yes” is selected, the communication object “Telegr. status of operation” appears.

Send status of automatic control

If the option “yes” is selected, the communication object “Telegr. status of automatic control”. This parameter is only visible, if the option “activated” is selected for the parameter *Automatic control* in the “General” parameter window.

Send status byte

The communication object “Telegr. status byte” appears if the option “yes” is selected.

“Pos. 1” parameter window**Move to position 0...255**

If the option “activated” is selected, the communication objects “Move to position 0...255” (in “Shutter” and “Blinds” operating modes) as well as “Move louvres 0...255” (only in “Blinds” operating mode).

**Objects for “Move to position”
Objects for “Set position”**

If the option “activated” is selected, the communication objects “Move to position 1/2” and “Set position 1/2” or “Move to position 3/4” and “Set position 3/4” appear as well as the parameter window “Pos. 2”.

Move to position

If the option “directly” is selected, the shutter/blind moves directly from the current position to the new target position.

If the option “indirectly via top” or “indirectly via bottom” is selected, the shutter/blind first moves completely up or completely down and then into the target position.

If the option “indirectly via shortest way” is selected, the shutter/blind first moves completely up or completely down, depending on which detour is the shortest, and then into the target position.

“Pos. 2” parameter window**Overwrite preset values during download**

Options: – yes
– no

This parameter defines whether the preset values stored in the Shutter Actuator should be overwritten during a download with the parameterised preset values. If the option “yes” is selected, the communication objects *Position X: Blinds 0...100 %* and *Position X: Louvres 0...100 %* appear.



If individual preset values have already been specified by the user during operation, this parameter should be set to “no” so that these individual positions are retained.

Position X: Shutter 0...100 % or Position X: Blinds 0...100 %

For setting the preset value for the height of the shutter/blind when moving into a preset position.

Position X: Louvres 0...100 %

For setting the preset value for louver adjustment when moving into a preset position.

“Auto 1” parameter window

This parameter window is only visible, if the option “activated” is selected for the parameter *Automatic control* in the “General” parameter window.

Deactivation of automatic control

This parameter defines whether automatic control should only be deactivated via the communication object “Activation of automatic control” or via the “direct” communication objects in addition.

If the second option is selected and a telegram is received at a “direct” communication object when automatic control is activated, automatic control is deactivated and the direct movement command is carried out.

Toggling to automatic control

Toggling to direct operation

This parameter specifies whether toggling to automatic control or direct operation is enabled or disabled. If the option “enable/disable via communication object” is selected, the communication object “Enable/disable automatic control” or “Enable/block direct operation” appears.

Position for sun = “1” (sun)

For setting the behaviour if the sun = “1” (sun) in automatic sun protection mode. If the option “receive position via 8 bit value” is selected, the communication objects “Move to position for sun 0...255” and “Adjust louvres for sun 0...255” appear. If the option “no reaction” is set, the current movement is carried out in full. In the option “Stop”, the shutter/blind is halted immediately. The output contact reverts to the neutral position.

Position for sun = “0” (no sun)

For setting the behaviour if the sun = “0” (no sun) in automatic sun protection mode. If the option “no reaction” is set, the current movement is carried out in full. In the option “Stop”, the shutter/blind is halted immediately. The output contact reverts to the neutral position.

Delay for sun = “1” [s]

Delay for sun = “0” [s]

For setting the delay in seconds when activating the *Position for sun = “1”* or *Position for sun = “0”*.

Automatic heating/cooling

If the option “activated” is selected, the communication objects “Presence”, “Heating” and “Cooling” appear as well as the parameter window “Auto 2”.

“Auto 2” parameter window

Delay for presence = “0” [s]

Delay for presence = “1” [s]

For setting the delay in seconds when toggling between automatic sun protection and automatic heating/cooling.

Position for heating = “X” and sun = “X”

For setting the behaviour when the sun = “1” (sun) or sun = “0” (no sun) in heating mode (Heating = “1”) or in cooling mode (Cooling = “1”). If the option “no reaction” is set, the outputs remain in their current position. In the option “Stop”, the shutter/blind is halted immediately. The output contact reverts to the neutral position.

“Scene” parameter window

This parameter window is only visible, if the option “activated” is selected for the parameter *8-bit-scene* in the “General” parameter window.

Scene assignment (X)

This parameter defines into which scenes the shutter/blind should be integrated. Each shutter/blind can be integrated in up to 10 out of a total of 64 scenes per group address.

Parameters in the operating mode “Ventilation flaps/switch mode”

“A - General” parameter window

Operating mode

The operating mode is set via this parameter. The communication objects and the parameters for the respective output differ according to the operating mode. The following section describes the parameters for the operating mode “Ventilation flaps/switch mode”.

Position on bus voltage failure

For setting the behaviour on bus voltage failure. In the option “Closed-Off”, the output contact reverts to the neutral position.

Position on bus voltage recovery

For setting the behaviour on bus voltage recovery. In the option “Closed-Off”, the output contact reverts to the neutral position.

Position after programming and bus reset

For setting the behaviour after programming or bus reset. In the option “Closed-Off”, the output contact reverts to the neutral position.

Staircase lighting function

The staircase lighting function is activated via this parameter. If “activated” is selected, the parameter *Duration/opening time for staircase lighting* appears.

Duration/opening time for staircase lighting [s]

For setting the duration/opening time for staircase lighting in seconds.

“Safety” parameter window

Output reacts to communication object for wind alarm no.

This parameter defines which wind alarm objects the output reacts to. The values of the linked communication objects are connected via an OR function.

Position for wind alarm

Position for rain alarm

Position for frost alarm

For setting the behaviour in the event of a weather alarm. In the option “Closed-Off”, the output contact

reverts to the neutral position.

If the option “no reaction” is set, the current movement is carried out in full.

If the option “deactivated” is selected, this output does not react to an alarm or to the monitoring period.

Disable via communication object

If the option “activated” is selected, the communication object “Block” appears as well as the parameter *Position for blocking*.

Position for blocking

For setting the behaviour during disable mode. If the option “no reaction” is set, the output contacts remain in their current position. In the option “Closed-Off”, the output contact reverts to the neutral position.

Forced operation (2 bit)

The communication object “Forced operation” appears if the option “activated” is selected.

Position on reset of weather alarm, blocking and forced operation

This parameter defines how the output behaves after a safety alarm. If the option “no reaction” is set, the output contacts remain in their current position. In the option “Closed”, the output contact reverts to the neutral position.

“Status” parameter window

Send position: Open-Closed/On-Off

If the option “yes” is selected, the communication object “Telegr. status Open-Closed/On-Off” appears.

Send status of operation

If the option “yes” is selected, the communication object “Telegr. status of operation” appears.

Send status byte

The communication object “Telegr. status byte” appears if the option “yes” is selected.

“Direct” communication objects
in “Blinds” operating mode
using “Output A” as an example

No.	Type	Object name	Function
11	1 bit	Output A	Move blinds Up-Down
12	1 bit	Output A	Louvre adj./Stop Up-Down
13	1 byte	Output A	Move to position 0...255
14	1 byte	Output A	Move louvres 0...255
15	1 bit	Output A	Move to position 1/2
16	1 bit	Output A	Move to position 3/4
17	1 bit	Output A	Set position 1/2
18	1 bit	Output A	Set position 3/4
19	1 bit	Output A	Blinds Up-Down limited
20	1 bit	Output A	Reference movement
21	1 byte	Output A	Scene

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“Direct” communication objects
in “Shutter” operating mode
using “Output A” as an example

No.	Type	Object name	Function
11	1 bit	Output A	Move shutter Up-Down
12	1 bit	Output A	Stop Up-Down
13	1 byte	Output A	Move to position 0...255
15	1 bit	Output A	Move to position 1/2
16	1 bit	Output A	Move to position 3/4
17	1 bit	Output A	Set position 1/2
18	1 bit	Output A	Set position 3/4
19	1 bit	Output A	Shutter Up-Down limited
20	1 bit	Output A	Reference movement
21	1 byte	Output A	Scene

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“Automatic” communication objects
in “Blinds” operating mode
using “Output A” as an example

No.	Type	Object name	Function
22	1 bit	Output A	Activation of automatic control
23	1 bit	Output A	Sun
24	1 byte	Output A	Move to position for sun 0...255
25	1 byte	Output A	Adjust louvres for sun 0...255
26	1 bit	Output A	Presence
27	1 bit	Output A	Heating
28	1 bit	Output A	Cooling
29	1 bit	Output A	Enable/disable automatic control
30	1 bit	Output A	Enable/block direct operation

“Automatic” communication objects
in “Shutter” operating mode
using “Output A” as an example

No.	Type	Object name	Function
22	1 bit	Output A	Activation of automatic control
23	1 bit	Output A	Sun
24	1 byte	Output A	Move to position for sun 0...255
26	1 bit	Output A	Presence
27	1 bit	Output A	Heating
28	1 bit	Output A	Cooling
29	1 bit	Output A	Enable/disable automatic control
30	1 bit	Output A	Enable/block direct operation

“Safety” communication objects

All operating modes

General for all outputs A...H or using
“Output A” as an example

No.	Type	Object name	Function
1	1 bit	Output A...D	Wind alarm no. 1
2	1 bit	Output A...D	Wind alarm no. 2
3	1 bit	Output A...D	Wind alarm no. 3
4	1 bit	Output A...D	Rain alarm
5	1 bit	Output A...D	Frost alarm
31	1 bit	Output A	Block
32	2 bit	Output A	Forced operation

“Status response” communication objectsIn the “Blinds” operating mode
using “Output A” as an example

No.	Type	Object name	Function
33	1 byte	Output A	Telegr. status of position
34	1 byte	Output A	Telegr. status of louvres
35	1 bit	Output A	Telegr. status of upper position
36	1 bit	Output A	Telegr. status of lower position
37	1 bit	Output A	Telegr. status of operation
38	1 bit	Output A	Telegr. status of automatic control
39	1 byte	Output A	Telegr. status byte

“Status response” communication objectsIn the “Shutter” operating mode
using “Output A” as an example

No.	Type	Object name	Function
33	1 byte	Output A	Telegr. status of position
35	1 bit	Output A	Telegr. status of upper position
36	1 bit	Output A	Telegr. status of lower position
37	1 bit	Output A	Telegr. status of operation
38	1 bit	Output A	Telegr. status of automatic control
39	1 byte	Output A	Telegr. status byte

“Manual” communication objects

All operating modes

General for all outputs A...H

No.	Type	Object name	Function
6	1 bit	Output A...D	Enable/block manual operation
7	1 bit	Output A...D	Telegr. status of manual operation
8	1 bit	Output A...D	Telegr. status of auxiliary voltage

Other communication objects

In the operating mode

“Ventilation flaps/switch mode”

using “Output A” as an example

No.	Type	Object name	Function
11	1 bit	Output A	Ventilation flaps Open-Closed/On-Off
37	1 bit	Output A	Telegr. status Open-Closed/On-Off
38	1 bit	Output A	Telegr. status of operation
39	1 byte	Output A	Telegr. status byte

General parameters

General for all outputs A...H.

The default setting for the values is **printed in bold type**.

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“A...X - Safety” parameter window

– Order of priority for safety functions	1.Weather alarm-2.Block-3.Forced operation 1.Weather alarm-2.Forced operation-3.Block 1.Block-2.Weather alarm-3.Forced operation 1.Block-2.Forced operation-3.Weather alarm 1.Forced operation-2.Block-3.Weather alarm 1.Forced operation-2.Weather alarm-3.Block
– Order of priority for weather alarm functions	1.Wind alarm-2.Rain alarm-3.Frost alarm 1.Wind alarm-2.Frost alarm-3.Rain alarm 1.Rain alarm-2.Wind alarm-3.Frost alarm 1.Rain alarm-2.Frost alarm-3.Wind alarm 1.Frost alarm-2.Rain alarm-3.Wind alarm 1.Frost alarm-2.Wind alarm-3.Rain alarm
– Communication object no. 1 for wind alarm	activated/ deactivated
– Communication object no. 2 for wind alarm	activated/ deactivated
– Communication object no. 3 for wind alarm	activated/ deactivated
– Monitoring period for wind alarm [s]	0..1,000 (0)
– Rain alarm	activated/ deactivated
Only if “activated”:	
– Monitoring period for rain alarm [s]	0..1,000 (0)
– Frost alarm	activated/ deactivated
Only if “activated”:	
– Monitoring period for frost alarm [s]	0..1,000 (0)

6

“Manual” parameter window

– Manual operation	enabled /always disabled/ enable/disable via communication object
– Reset manual operation to operation via EIB	via push button/ automatically and via push button
Only for “automatically and via push button”:	
– Time for automatic reset [s]	0..6,000 (300)
– Send status of manual operation	yes/ no
– Send status of auxiliary voltage	yes/ no

Parameters

Separate for each output in the operating modes "Shutter" and "Blinds".

The default setting for the values is **printed in bold type**.

"A - General" parameter window

– Operating mode	Shutter/ Blinds / Ventilation flaps/switch mode
– Position on bus voltage failure	no reaction/Up/Down/ Stop
– Position on bus voltage recovery	no reaction/Up/Down/ Stop /Position 1/ Position 2/Position 3/Position 4
– Position after programming and bus reset	no reaction/Up/Down/ Stop /Position 1/ Position 2/Position 3/Position 4
– Automatic control	activated/ deactivated
– 8 bit scene	activated/ deactivated
– Position after reference movement	no reaction/ move to saved position/ deactivated

"Drive" parameter window

– Total travel time [s]	0..6,000 (60)
Only if "Operating mode" = "Blinds"	
– Duration of louvre adjustment [ms]	50..1,000 (200)
– Pause on change in direction Only if "Operating mode" = "Blinds"	50..10,000 (500)
– Max. number of louvre adjustments	1..60 (7)
– Start-up delay [ms]	0..255 (0)
– Deceleration delay [ms]	0..255 (0)
– Limit travelling range	yes/ no
Only if "yes" is selected:	
– Upper limit 0...100 % (0 % = top; 100 % = bottom)	0..100 (0)
– Lower limit 0...100 % (0 % = top; 100 % = bottom)	0..100 (100)

"Safety" parameter window

– Output reacts to communication object for wind alarm no.	Output does not react on wind alarm/ 1/2/3/1+2/1+3/2+3/1+2+3
– Position for wind alarm	deactivated/ activated – up/ activated – down/ activated – no reaction
– Position for rain alarm	deactivated/ activated – up/ activated – down/ activated – no reaction
– Position for frost alarm	deactivated/ activated – up/ activated – down/ activated – no reaction
– Disable via communication object	activated/ deactivated
Only if "activated"	
– Position for blocking	no reaction /Up/Down/Stop/Position 1/ Position 2/Position 3/Position 4
– Forced operation	activated/ deactivated
– Position on reset of weather alarm, blocking and forced operation	no reaction/ Stop / move to saved position

“Status” parameter window

– Send position: 0...255	yes/no
– Send position: limit position reached	yes/no
– Send status of operation	yes/no
Only if “Automatic control” = “activated”	
– Send status of automatic control	yes/no
– Send status byte	yes/no

Only if “Move to position” = “activated”

“Pos. 1” parameter window

– Move to position 0...255 (8 bit value)	activated/deactivated
– Objects for “Move to Position” (1 bit preset)	activated/deactivated
Only if “Objects for “Move to Position”” = “activated”	
– “Objects for Set Position” (1 bit preset)	activated/deactivated
– Move to position	directly /indirectly via top/indirectly via bottom/indirectly via shortest way

In the “Blinds” operating mode

Only if “Objects for “Move to Position”” = “activated”

“Pos. 2” parameter window

– Overwrite preset values during download	yes/no
only if “Overwrite preset values during download” = “yes”	
– Position 1: Blinds 0...100 % (0 % = top; 100 % = bottom)	0...100 (20)
– Position 1: Louvres 0...100 % (0 % = open; 100 % = closed)	0...100 (20)
– Position 2: Blinds 0...100 % (0 % = top; 100 % = bottom)	0...100 (40)
– Position 2: Louvres 0...100 % (0 % = open; 100 % = closed)	0...100 (40)
Only if “Objects for Set Position” = “activated”	
– Position 3: Blinds 0...100 % (0 % = top; 100 % = bottom)	0...100 (60)
– Position 3: Louvres 0...100 % (0 % = open; 100 % = closed)	0...100 (60)
– Position 4: Blinds 0...100 % (0 % = top; 100 % = bottom)	0...100 (80)
– Position 4: Louvres 0...100 % (0 % = open; 100 % = closed)	0...100 (80)

In the “Shutter” operating mode

Only if “Objects for “Move to Position” = “activated”

“Pos. 2” parameter window

- Overwrite preset values during download **yes/no**
only if “Overwrite preset values during download” = “yes”
- Position 1: Shutter 0...100 % 0...100 **(20)**
(0 % = top; 100 % = bottom)
- Position 2: Shutter 0...100 % 0...100 **(40)**
(0 % = top; 100 % = bottom)
- Only if “Objects for Set Position” = “activated”
- Position 3: Shutter 0...100 % 0...100 **(60)**
(0 % = top; 100 % = bottom)
- Position 4: Shutter 0...100 % 0...100 **(80)**
(0 % = top; 100 % = bottom)

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Only if “Automatic control” = “activated”

“Auto 1” parameter window

- Deactivation of automatic control via object “Activation of automatic control”/
via object “Activation of automatic control” and direct objects
- Toggling to automatic control enabled/
enable/disable via communication object
- Toggling to direct operation enabled/
enable/disable via communication object
- Position for sun = “1” (sun) no reaction/Up/Down/Stop/
Position 1/Position 2/Position 3/Position 4/
receive position via 8 bit value
- Position for sun = “0” (no sun) no reaction/Up/Down/Stop/
Position 1/Position 2/Position 3/Position 4
- Delay for sun = “1” [s] 0...6,000 **(60)**
- Delay for sun = “0” [s] 0...6,000 **(240)**
- Automatic heating/cooling activated/**deactivated**

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Only if “Automatic heating/cooling” = “activated”

“Auto 2” parameter window

- Delay for presence = “1” [s] 0...6,000 **(0)**
- Delay for presence = “0” [s] 0...6,000 **(600)**
- Position for heating = “1” and sun = “1” no reaction/Up/Down/Stop/Position 1/
Position 2/Position 3/Position 4
- Position for heating = “1” and sun = “0” **no reaction**/Up/Down/Stop/Position 1/
Position 2/Position 3/Position 4
- Position for cooling = “1” and sun = “1” no reaction/Up/Down/Stop/Position 1/
Position 2/Position 3/Position 4
- Position for cooling = “1” and sun = “0” **no reaction**/Up/Down/Stop/Position 1/
Position 2/Position 3/Position 4

Only if “8 bit scene” = “activated”

“Scene” parameter window

- Scene assignment (1) **no assignment**/0...63
- Scene assignment (2) **no assignment**/0...63
- Scene assignment (3) **no assignment**/0...63
- Scene assignment (4) **no assignment**/0...63
- Scene assignment (5) **no assignment**/0...63
- Scene assignment (6) **no assignment**/0...63
- Scene assignment (7) **no assignment**/0...63
- Scene assignment (8) **no assignment**/0...63
- Scene assignment (9) **no assignment**/0...63
- Scene assignment (10) **no assignment**/0...63

Parameters

Separate for each output in the operating mode "Ventilation flaps/switch mode".

The default setting for the values is **printed in bold type**.

"A - General" parameter window

– Operating mode	Shutter/ Blinds / Ventilation flaps/switch mode
– Position on bus voltage failure	Closed-Off/ Open-On /no reaction
– Position on bus voltage recovery	Closed-Off/ Open-On /no reaction
– Position after programming and bus reset	Closed-Off/ Open-On /no reaction
– Staircase lighting function	activated/ deactivated
Only if "activated":	
– Duration/opening time for staircase lighting [s]	0...30,000 (60)

"Safety" parameter window

– Output reacts to communication object for wind alarm no.	Output does not react on wind alarm/ 1/2/3/1+2/1+3/2+3/1+2+3
– Position for wind alarm	activated – closed-off/ activated – open-on/ activated – no reaction/ deactivated
– Position for rain alarm	activated – closed-off/ activated – open-on/ activated – no reaction/ deactivated
– Position for frost alarm	activated – closed-off/ activated – open-on/ activated – no reaction/ deactivated
– Disable via communication object	activated/ deactivated
Only if "activated":	
– Position for blocking	Closed-Off/ Open-On /no reaction
– Forced operation	activated/ deactivated
– Position on reset of weather alarm, blocking and forced operation	Closed-Off/ Open-On /no reaction

"Status" parameter window

– Send position: Open-Closed/On-Off	yes/ no
– Send status of operation	yes/ no
– Send status byte	yes/ no