

## MDT Shutter Actuator 1-fold with 4 potential free binary inputs, flush mounted

Version		
JAL-B1UP.02	Shutter Actuator 1-fold with 4 inputs	Flush mounted, 6A, shutter motors 230VAC up to 300W

The MDT Shutter Actuator with monostable relays is individually programmable by the ETS. Switching, alarm, central and blocking functions are available as well as extensive calibration and positioning functions. The exact position can be driven in tip mode and separate travel times for up / down can be set.

The MDT Shutter Actuator has a practical ventilation function and automatic sun protection/slat tracking with sun position calculation. Automatic and scene functions can be programmed additionally. As well automatic and scene functions can be programmed.

If the mains voltage fails, all outputs are switched off. After bus voltage failure or recovery the switching positions of the relays can be programmed individually for each channel.

In addition to the function as a shutter actuator, the actuator has 4 potential free binary inputs that act as a universal interface. At these inputs, buttons, switches, door and window contacts can be queried. Each input can be parametrized individually by the ETS. The roller and blind functions can be parameterized for 1 and 2 button operation.

The interpretation of the connected window contacts takes place directly in the actuator. The transmission behavior of the up/down objects can be set, either the internal switching contacts or actuators on the KNX bus can be controlled.

The MDT Shutter Actuator is a flush mounted device to be inserted in a installation box or behind a push button or switch.

It has to be installed in dry rooms.

For project design and commissioning of the MDT Shutter Actuator it is recommended to use the ETS.  
Please download the application software at [www.mdt.de/Downloads.html](http://www.mdt.de/Downloads.html)

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### Shutter/blind functions:

- **Practical ventilation function (window open/tilt)**
- **Automatic sun shading/slat adjustment with sun position calculation**
- Travel-, pause-at-change-of-direction and step time adjustable
- Separate travel time for up and down adjustable
- Tip operation for accurate positioning
- Extended 1Bit automatic positions and logical functions
- 1Byte absolute positioning for shutter and blinds
- Alarm, central- and block functions
- Priority/forced operation with automatic release time
- Adjustable behavior in case of bus voltage return

### Functions Binary Inputs:

- To connect push-buttons or window/auxiliary contacts
- Integrated evaluation of the windows contacts
- **Adjustable transmission behavior of the up/down objects**  
(To the internal contacts or actuators on the KNX bus)
- Operation of blinds and shutters, 1 and 2 button operation
- **Binary Inputs usable as Universal Interface**

- Production in Germany, certified according to ISO 9001
- Dimensions (W x H x D): 41mm x 41mm x 22mm
- 3 years warranty

<b>Technical Data</b>	JAL-B1UP.02	
<b>Number of input channels</b>	4	
<b>Contact voltage input channel</b>	3,3VDC* internal	
<b>Number of output channels</b>	1	
<b>Output switching ratings</b>		
Ohmic load	6A	
Voltage	230VAC	
<b>Maximum load</b>		
Shutter motor	300W ***	
<b>Output life expectancy (mechanical)</b>	1.000.000	
<b>Max. fuse per channel</b>	10A	
<b>Specification KNX interface</b>	TP-256 with long frame support for ETS5	
<b>Available application software</b>	ETS 4/5	
<b>Wire gauge connection cables</b>		
Cable KNX bus and potential free inputs	0,8mm Ø, solid core	
Cable to connect outputs	1,5mm <sup>2</sup>	
<b>Power supply</b>	KNX bus**	
<b>Power consumption KNX bus typ.</b>	<0,3W	
<b>Operation temperature range</b>	0 to + 45°C	
<b>Enclosure</b>	IP 20	
<b>Dimensions (W x H x D)</b>	41mm x 41mm x 22mm	

\* There is no galvanic separation between contact voltage and KNX bus voltage.

\*\* If any 230V cables are in the vicinity, make sure to maintain the distances to them specified as in the applicable standards and regulations.

\*\*\* no three-phase asynchronous motor

## Exemplary circuit diagram JAL-B1UP.02

