

MDT Universal 2-fold, flush mounted

Version		
AKU-02UP.03	Universal Actuator 2-fold	Flush mounted, 230VAC, 10A
AKU-B2UP.03	Universal Aktuator 2-fold with 4 binary inputs	Flush mounted, 230VAC, 10A

The MDT Universal Actuator with monostable relays can be used as Switch Actuator 2-fold or Shutter Actuator 1-fold and 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 Universal 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. The Operation as a switching actuator enables heating control with PWM from 0 to 100%.

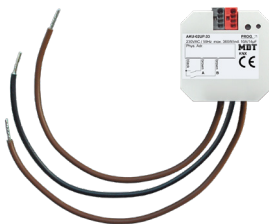
If the mains voltage fails, all outputs are switched off. After bus voltage failure or recovery the switching positions of the relays can be programmed individually for each channel.

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 Universal 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

AKU-02UP.03



AKU-B2UP.03



- **Switch Actuator 2-fold / Shutter Actuator 1-fold**
- Heating control with PWM 0-100%
- **Automatic sun shading/slat adjustment with sun position calculation**
- **Practical ventilation function (window open/tilt)**
- Time functions (switch-on/switch-off delay, staircase light function)
- Logical linking of binary data, 8 scenes per channel
- Central switching functions and block functions
- Travel-, pause-at-change-of-direction- and step time adjustable
- 1Bit automatic function and sun protection
- 8Bit positioning for shutter and blinds

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**
- Dimensions (W x H x D): 41mm x 41mm x 22mm
 - 3 years warranty

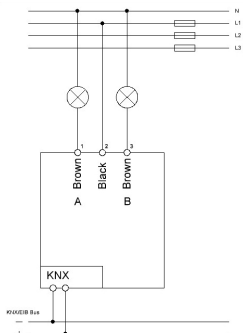
Technical Data	AKU-02UP.03	AKU-B2UP.03
Number of outputs	2	2
Output switching ratings		
Ohmic load	10A	10A
Capacitive load	14uF bei 10A	14uF bei 10A
Voltage	230VAC	230VAC
Maximum inrush current	150A/150µs 50/600µs	150A/150µs 50/600µs
Maximum load		
Incandescent lamps	1500W	1500W
Halogen lamps 230V	1200W	1200W
Halogen lamps, electronic transformer	500W	500W
Fluorescent lamps, not compensated	500W	500W
Fluorescent lamps, parallel comp.	120W	120W
Max. number of electronic transformers	2	2
Shutter motor	--	300W ***
Number of input channels	--	4
Contact voltage input channel	--	3,3VDC* internal
Output life expectancy (mechanical)	1.000.000	1.000.000
Max. fuse per channel	10A	10A
Specification KNX interface	TP-256 with long frame support for ETS5	
Available application software	ETS 5	
Wire gauge connection cables		
Cable KNX bus and potential free inputs	0,8mm Ø, solid core	
Cable to connect outputs	1,5mm ²	
Power supply	KNX bus**	
Power consumption KNX bus typ.	<0,3W	
Operation temperature range	0 to + 45°C	
Enclosure	IP 20	
Dimensions (W x H x D)	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 AKU-02UP.03



Exemplary circuit diagram AKU-B2UP.03

