

AKU-B2UP.03

KNX Universal Actuator 2-channel, flush mounted, 10 A, 230 V AC, 14 μ F, 2 ECG, 4 binary inputs



Product description:

The flush-mounted version of the AKU universal actuator can be used in many ways: as a switching actuator with various functions (2-channel), as a blind actuator (1-channel) with automatic shading function or as a heating actuator. The comprehensive application offers full functionality in all three areas. Existing conventional blind push-buttons or window contacts can be connected directly to the potential-free binary inputs and evaluated.

Product functions:

- max. current 10 A with ohmic load, 14 μ F / 2 EVG
- With sun position calculation and shading
- **Can be used as a Switch Actuator (2 channel) or as a Shutter Actuator (1 channel)**
- Heating control with PWM 0-100 %
- **Practice-oriented ventilation function (window opened/tilted)**
- **Automatic sun shading/slat tracking based on sun position calculation**
- **4 Binary inputs to connect potential free contacts (Mechanical Push-buttons, Switches, window contacts)**
- Time functions (switch on-/switch off delay, staircase light function)
- Status feedback for all channels (active/passive)
- Logical functions, 8 scenes per channel
- Central functions and blocking objects for forced operation
- Operation mode for shutter/blinds
- Travel-, pause- and step time selectable
- Behaviour on Bus power reset selectable
- Dimensions (H x W x D): 41 x 41 x 22 mm
- 3 year warranty

Technical data:

Device	Device type	AKU Universal Actuator
	Article Number	AKU-B2UP.03
	EAN / GTIN	4251916130497
	Dimensions (H x W x D)	41 x 41 x 22 mm
	Weight, gross (incl. packaging)	0.068 kg
	Protection classification	IP20
	Installation type	Flush mounted
	Installation position	any
	Weight, net	0.048 kg
Performance data	Nominal voltage U_n	230 V AC *1
	Nominal current I_n (per output)	10 A
	Nominal frequency	50/60 Hz
	Relay type	monostable
	Mech. switching frequency	1.000.000
	Capacitive load	14 μ F / 10 A
	Power dissipation of the device, typical	\leq 2 W
Inputs	Number of binary inputs	4
Outputs	Number of outputs	2
	Maximum motor power per channel	300 W
Lamp data	Incandescent lamp load	1500 W
	HV-Halogen lamps	1200 W
	NV-Halogen lamps	500 W
	Fluorescent lamp uncompensated	500 W
	Fluorescent lamp parallel compensation	120 W
	Max. number of ECG	2
Currents	Inrush current (150 μ s)	150 A
	Inrush current (600 μ s)	50 A
	Total current carrying capacity of the actuator	16 A
KNX	Nominal voltage KNX	30 V DC SELV
	Voltage range KNX	21 ... 31 V DC SELV
	Typical power consumption KNX bus	< 0,3 W
	KNX Medium	TP-256 with long frame support
	KNX Application	as of ETS 5 (latest)

Technical data:

Environmental conditions	Ambient operating temperature	0 ... 45 °C
	Storage	-20 ... +55 °C
	Humidity	< 95 %
	Condensation permissible	No
Connections	Connection type	Screw terminal with slotted head
	Screw terminal tightening torque	0.5 Nm
	KNX connection type	KNX terminal
	KNX cable cross section	0.6 ... 0.8 mm, solid conductor

*1 Mixed operation of nominal and safety extra low voltage (SELV) within the actuator is not permitted!

Wiring diagram:

