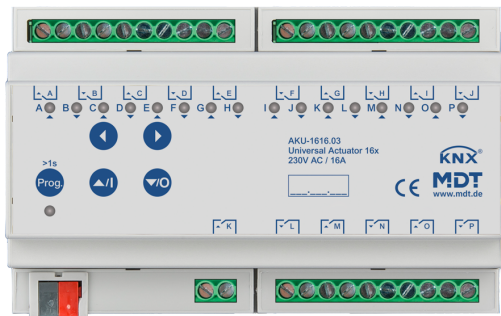


AKU-1616.03

KNX Universal Actuator 16-channel, 8 SU MDRC, 16 A, 230 V AC, 100 µF, 15 ECG



Product description:

The MDT universal actuator AKU can be used in many ways: as a switching actuator with various functions, as a blind actuator with automatic shading function or as a heating actuator. The comprehensive application offers full functionality in all three areas, whereby mixed operation of the functions is possible.

Product functions:

- Can be used as a Switch Actuator (max. 16 channel) or Shutter Actuator (max. 8 channel)
- **Mixed operation as switch- and shutter Actuator**
- Heating control with PWM 0-100 %
- Push-button for manual operation and LED Indicator per channel
- **Practice-oriented ventilation function (window opened/tilted)**
- **Automatic sun shading/slat tracking based on sun position calculation**
- 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
- 1 Bit Automatic control and sun shading function
- 8 Bit object to position height and slats
- Behaviour on Bus power failure/reset selectable
- **4 mm² connection terminals. Individual L-connections**
- 3 year warranty

Technical data:

Device	Device type	AKU Universal Actuator
	Article Number	AKU-1616.03
	EAN / GTIN	4251916130466
	Installation width	8 SU / 144 mm
	Dimensions (H x W x D)	90 x 144 x 65 mm
	Weight, gross (incl. packaging)	0.533 kg
	Protection classification	IP20
	Installation type	MDRC, DIN rail 35 mm
	Installation position	any
	Weight, net	0.495 kg
Performance data	Nominal voltage U_n	230 V AC ^{*1}
	Nominal current I_n (per output)	16 A
	Nominal frequency	50/60 Hz
	Relay type	bistable
	Mech. switching frequency	1.000.000
	Capacitive load	100 μ F / 16 A
	Power dissipation of the device, typical	≤ 16 W
Outputs	Number of outputs	16
	Maximum motor power per channel	600 W
Lamp data	Incandescent lamp load	2300 W
	HV-Halogen lamps	2300 W
	NV-Halogen lamps	1300 W
	Fluorescent lamp uncompensated	2000 W
	Fluorescent lamp parallel compensation	1200 W
	Max. number of ECG	15
Currents	Inrush current (150 μ s)	400 A
	Inrush current (600 μ s)	200 A
	Total current carrying capacity of the actuator	128 A
KNX	Nominal voltage KNX	30 V DC SELV
	Voltage range KNX	21 ... 31 V DC SELV
	Typical power consumption KNX bus	< 0,15 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
	Conductor cross section 1 x	0,5 ... 4 mm ²
	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:

