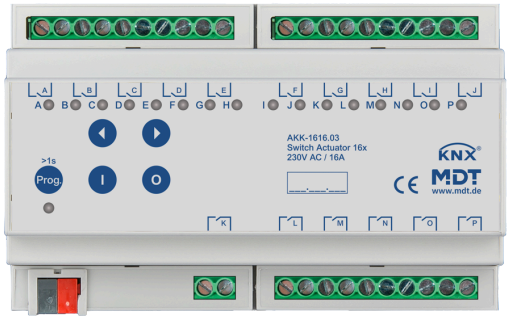
AKK-1616.03

KNX Switch Actuator 16-channel, 8 SU MDRC, 16 A, 230 V AC, compact, 70 µF, 10 ECG



Product description:

The compact MDT Switch Actuator AKK for small to medium loads offers comprehensive functions. The four channel switch actuator requires 2 SU MDRC in a distribution board, half the space required in comparision to comparable actuators.The maximum switching capacity is 16 A and 70 µF C-Load

Product functions:

- **Function extension**
- Manual mode blockable and LED indicator per channel
- Normally open and normally closed
- Status feedback for all channels (also for manual operation)
- Time functions (switch-on / switch-off delay)
- Comprehensive staircase lighting and pulse functions
- Logical functions
- Extended scene function per channel
- Central functions and blocking objects for forced operation
- Behaviour on Bus power failure/reset selectable
- **4 mm² connection terminals. Individual L-connections**
- Power supply over the KNX Bus
- Fast application download (long frame support as of ETS 5)

Technical data:

Device	Device type	AKK Switch Actuator
	Article Number	AKK-1616.03
	EAN / GTIN	4251916130268
	Installation width	8 SU / 144 mm
	Dimensions (H x W x D)	90 x 144 x 65 mm
	Weight, gross (incl. packaging)	0.5 kg
	Protection classification	IP20
	Installation type	MDRC, DIN rail 35 mm
	Installation position	any
	Weight, net	0.46 kg
	Mechanical manual override	No
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	70 µF / 16 A
	Fluorescent lamp load AX	≤ 16 AX
	Power dissipation of the device, typical	≤ 3 W
Outputs	Number of outputs	16
Lamp data	Incandescent lamp load	2000 W
	HV-Halogen lamps	2000 W
	NV-Halogen lamps	1200 W
	Fluorescent lamp uncompensated	1800 W
	Fluorescent lamp parallel compensation	800 W
	Max. number of ECG	10
Currents	Inrush current (150 µs)	300 A
	Inrush current (600 µs)	150 A
	Total current carrying capacity of the actuator	100 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 4

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 mm²
	Screw terminal tightening torque	0.5 Nm
	KNX connection type	KNX terminal
	KNX cable cross section	0.6 ... 0.8 mm, solid conductor

Hinweise		Protection against induced voltage spikes: To protect against voltage spikes when switching off inductive loads, it is recommended to use appropriate protective circuits such as flyback diodes, RC networks, or varistors directly at the actuator output.

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

Wiring diagram: