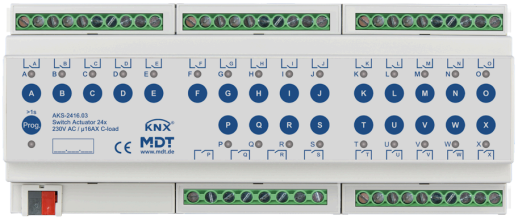
AKS-2416.03

KNX Switch Actuator 24-channel, 12 SU MDRC, 16 A, 230 V AC, C-load, standard, 140 µF



Product description:

The MDT Switch Actuator AKS 16 A in standard version for medium to large loads and with a wide range of functions. The AKS series offers more channels with less space requirement, which minimises costs per channel and for the distribution board. The actuator is equipped with bistable relays for currents up to 16 A and a C-load of up to 140 µF. Each channel can be switched directly by means of a button on the actuator.

Product functions:

- **Space saving due to an optimised form factor**
- **Comprehensive application**
- 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, staircase light function)
- **Extended logic and scene function per channel**
- Extended status functions (inverted, cyclic, during locking)
- **Threshold switch (1 Byte/2 Byte/2 Byte float)**
- **Operating hours meter**
- **Priority/forced operation with automatic release time**
- **4 mm² connection terminals. Individual L-connections**
- Power supply over the KNX Bus
- Fast application download (long frame support as of ETS 5)
- 3 year warranty

Technical data:

Device	Device type	AKS Switch Actuator
	Article Number	AKS-2416.03
	EAN / GTIN	4251916130381
	Installation width	12 SU / 216 mm
	Dimensions (H x W x D)	90 x 216 x 65 mm
	Weight, gross (incl. packaging)	0.786 kg
	Protection classification	IP20
	Installation type	MDRC, DIN rail 35 mm
	Installation position	any
	Weight, net	0.74 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	140 µF / 16 A
	Fluorescent lamp load AX	≤ 16 AX
	Power dissipation of the device, typical	≤ 24 W
Outputs	Number of outputs	24
Lamp data	Incandescent lamp load	2500 W
	HV-Halogen lamps	2500 W
	NV-Halogen lamps	1500 W
	Fluorescent lamp uncompensated	2300 W
	Fluorescent lamp parallel compensation	1500 W
	Max. number of ECG	20
Currents	Inrush current (150 µs)	600 A
	Inrush current (600 µs)	250 A
	Total current carrying capacity of the actuator	192 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: