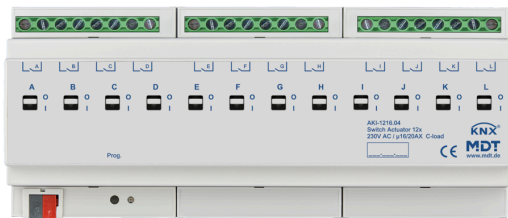


AKI-1216.04

KNX Switch Actuator 12-channel, 12 SU MDRC, 16/20 A, 230 V AC, C-load, industry, 200 μ F



Product description:

The MDT Switch actuator AKI in industrial design for high to very high loads is used where high in-rush currents are expected. The actuator is equipped with bistable relays for currents up to 16/20 A and a C-load of up to 200 μ F. Thanks to manual mechanical operation they are particularly suitable for sensitive areas. The channels are also switchable without Bus power and the relay status is always visible.

Product functions:

- **Comprehensive application**
- **Mechanical manual activation for immediate operation of the relay contact**
- Visible Status
- Normally open and normally closed
- Time functions (switch-on / switch-off delay)
- Comprehensive staircase lighting and pulse functions
- **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	AKI Switch Actuator	
	Article Number	AKI-1216.04	
	EAN / GTIN	4251916130183	
	Installation width	12 SU / 216 mm	
	Dimensions (H x W x D)	90 x 216 x 65 mm	
	Weight, gross (incl. packaging)	0.808 kg	
	Protection classification	IP20	
	Installation type	MDRC, DIN rail 35 mm	
	Installation position	any	
	Weight, net	0.762 kg	
	Mechanical manual override	Yes	
	Performance data	Nominal voltage U_n	230 V AC ^{*1}
		Nominal current I_n (per output)	16/20 A
Nominal frequency		50/60 Hz	
Relay type		bistable	
Mech. switching frequency		1.000.000	
Capacitive load		200 μ F / 16 A	
Fluorescent lamp load AX		\leq 20 AX	
Power dissipation of the device, typical		\leq 12 W	
Outputs	Number of outputs	12	
Lamp data	Incandescent lamp load	3680 W	
	HV-Halogen lamps	3680 W	
	NV-Halogen lamps	2000 W	
	Fluorescent lamp uncompensated	3680 W	
	Fluorescent lamp parallel compensation	2500 W	
	Max. number of ECG	28	
Currents	Inrush current (150 μ s)	600 A	
	Inrush current (600 μ s)	300 A	
	Total current carrying capacity of adjacent outputs	32 A	
	Total current carrying capacity of the actuator	128 A	
	Switching current 12/24 V AC	\geq 0,1 A	
	Switching current 24 V DC	\leq 16 A	
KNX	Nominal voltage KNX	30 V DC SELV	
	Voltage range KNX	21 ... 31 V DC SELV	
	Typical power consumption KNX bus	$<$ 0,25 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

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:

