

MDT Switch Actuator MDRC 4-fold/ 8-fold/ 12-fold

Version		
AKS-0416.01	Switch Actuator 4-fold	4TE MDRC, 230VAC, 16A, C-Load 100uF
AKS-0410.01	Switch Actuator 4-fold	4TE MDRC, 230VAC, 10A, C-Load 100uF
AKI-0416.01	Switch Actuator 4-fold	4TE MDRC, 230VAC, 16A, C-Load 200uF
AKS-0816.01	Switch Actuator 8-fold	8TE MDRC, 230VAC, 16A, C-Load 100uF
AKS-0810.01	Switch Actuator 8-fold	8TE MDRC, 230VAC, 10A, C-Load 100uF
AKI-0816.01	Switch Actuator 8-fold	8TE MDRC, 230VAC, 16A, C-Load 200uF
AKS-1216.01	Switch Actuator 12-fold	12TE MDRC, 230VAC, 16A, C-Load 100uF
AKS-1210.01	Switch Actuator 12-fold	12TE MDRC, 230VAC, 10A, C-Load 100uF
AKI-1216.01	Switch Actuator 12-fold	12TE MDRC, 230VAC, 16A, C-Load 200uF

The MDT Switch Actuators receive KNX/EIB telegrams and switch up to 12 independent electrical loads. Each output uses a bistable relay and can be operated manually via a push button. A green LED indicates the switching status of each channel.

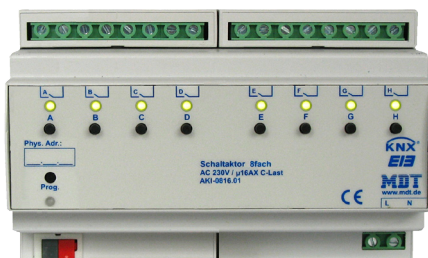
The outputs are parameterized individually via ETS3/4. The device provides extensive functions like logical operation, status response, block functions, central function, delay functions and staircase lighting function. Additionally the device provides several time and scene control.

If the mains voltage fails, all outputs hold their current position. After bus voltage failure or recovery the relay position is selected in dependence on the parameterization. The Switch Actuator is a modular installation device for fixed installation in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes.

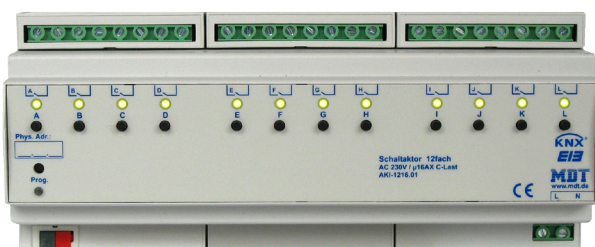
The AKS 08/12 Switch Actuator uses a common power supply terminal for two channels. This feature simplifies the wiring and increases clarity of the circuit. All other Switch Actuators have separate power supply terminals for each channel.

For project design and commissioning of the Switch Actuator it is recommended to use the ETS3f/ETS4 or later. Please download the application software at www.mdt.de/downloads.

AKI/AKS-08xx.01



AKI/AKS-12xx.01



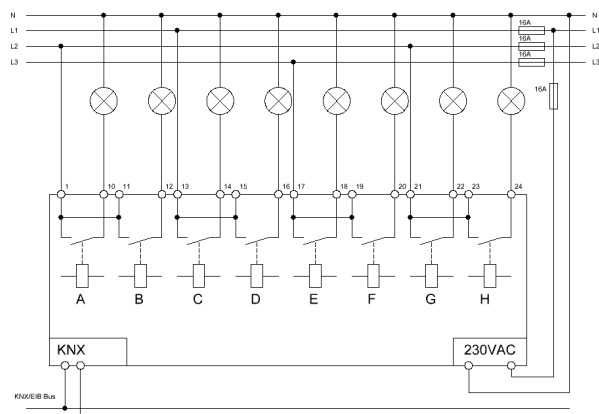
- production in Germany, certified according to ISO 9001
- modern design
- fully compatible to all KNX/EIB devices
- Push Button and LED indicator for each channel
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data, 8 scenes per channel
- Central switching functions and block functions
- Programmable behavior in case of bus voltage failure or return
- Two contacts share one supply phase
- Modular installation device for DIN 35mm rails
- Integrated bus coupling unit
- 3 years warranty

Technical Data	AKS-0416.01 AKS-0816.01 AKS-1216.01	AKS-0410.01 AKS-0810.01 AKS-1210.01	AKI-0416.01 AKI-0816.01 AKI-1216.01
Configuration			
Version	Standard	Standard	C-Load
Number of outputs	4/8/12	4/8/12	4/8/12
Power supply			
Supply voltage	230VAC / 50Hz	230VAC / 50Hz	230VAC / 50Hz
Output voltage	230VAC	230VAC	230VAC
Power Consumption	<0,3/0,5W *	<0,3/0,5W *	<0,3/0,5W *
Output switching current			
Ohmic load	16A	10A	16A
capacitive load	16A, max. 100uF	10A, max. 100uF	16A, max. 200uF
Maximum inrush current	400A/150µs - 200A/600µs	400A/150µs - 200A/600µs	600A/150µs - 300A/600µs
Maximum load			
Incandescent lamps	2700W	2000W	3680W
Halogen lamps 230V	2500W	1500W	3680W
Halogen lamps, electronic transformer**	1000W	700W	2000W
Fluorescent lamps, not compensated	1800W	1600W	3680W
Fluorescent lamps, parallel comp.	1000W	700W	2500W
max. number of electronic transformers	14	14	28
Output life expectancy (mechanical)	1.000.000	1.000.000	1.000.000
max. fuse per channel	16A	10A	16A
permitted wire gauge			
Screw terminal	2,5mm ²	2,5mm ²	2,5mm ²
KNX busconnection terminal	0,8mm ²	0,8mm ²	0,8mm ²
Operation temperature range	0 to + 45°C	0 to + 45°C	0 to + 45°C
Enclosure	IP 20	IP 20	IP 20
Dimensions MDRC	4/8/12 TE	4/8/12TE	4/8/12TE

* 4-fold version <0,3W, 8/12-fold version <0,5W

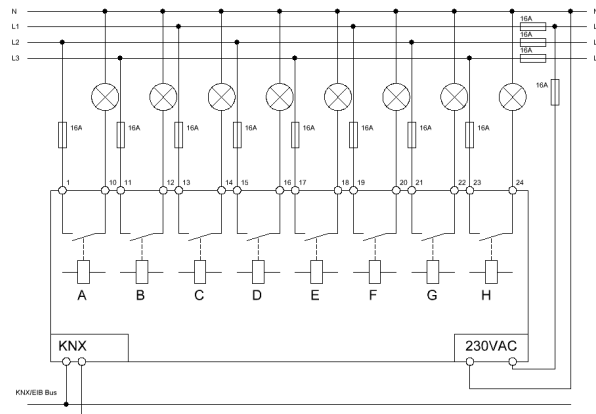
** low voltage halogen lamps with electronic transformer

Exemplary circuit diagram AKS-0816.01



The standard Switch Actuator AKS uses one power supply terminal for two channels.

Exemplary circuit diagram AKI-0816.01



The C-load Switch Actuator has separate power terminals for each channel.