

## MDT Switch Actuator compact 2/4/8/16-fold, MDRC

Version		
AKK-0216.02	Switch Actuator 2-fold	2SU MDRC, 230VAC, 16A
AKK-0416.02	Switch Actuator 4-fold	2SU MDRC, 230VAC, 16A
AKK-0816.02	Switch Actuator 8-fold	4SU MDRC, 230VAC, 16A
AKK-1616.02	Switch Actuator 16-fold	8SU MDRC, 230VAC, 16A

The MDT Switch Actuator AKK receives KNX/EIB telegrams and switches up to 16 independent electrical loads . Each output uses a bistable relay and can be operated manually via a push button. The outputs are parameterized individually via ETS. 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 were switched off. After mains voltage recovery the relay position will be restored. After bus voltage failure or recovery the relay position is selected in dependence on the parameterization. The MDRC Switch Actuators use a common power supply terminal for four channels. This feature simplifies the wiring and increases clarity of the circuit.

The MDT Switch Actuator AKK is a modular installation device for fixed installations in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes.

For project design and commissioning of the MDT Switch Actuator AKK it is recommended to use the ETS or later. Please download the application software at [www.mdt.de/downloads.html](http://www.mdt.de/downloads.html)

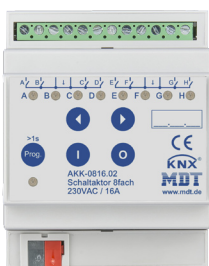
AKK-0216.02



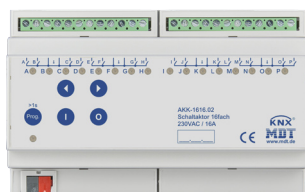
AKK-0416.02



AKK-0816.02



AKK-1616.02



- Production in Germany, certified according to ISO 9001
- Push Button and LED indicator for each channel
- NO and NC contact operation
- Status response after manually operation
- Time functions (switch-on/switch-off delay)
- Staircase light function with adjustable warning time
- Status response (active/passive) for each channel
- Logical linking of binary data
- 8 scenes per channel
- Central switching functions and block functions
- Adjustable behavior in case of bus voltage failure or return
- Four contacts share one supply phase
- Integrated bus coupling unit
- 3 years warranty

Technical Data	AKK-0216.02	AKK-0416.02	AKK-0816.02	AKK-1616.02
<b>Number of outputs</b>	2	4	8	16
<b>Output switching ratings*</b>				
Ohmic load	16A	16A	16A	16A
Capacitive load	21uF at 10A	21uF at 10A	21uF at 10A	21uF at 10A
Voltage	230VAC	230VAC	230VAC	230VAC
<b>Maximum inrush current</b>	80A/150µs 40A/600µs	80A/150µs 40A/600µs	80A/150µs 40A/600µs	80A/150µs 40A/600µs
<b>Maximum load</b>				
Incandescent lamps	2300W	2300W	2300W	2300W
Halogen lamps 230V	2000W	2000W	2000W	2000W
Halogen lamps, electronic transformer	800W	800W	800W	800W
Fluorescent lamps, not compensated	800W	800W	800W	800W
Fluorescent lamps, parallel comp.	180W	180W	180W	180W
Max. number of electronic transformers	3	3	3	3
<b>Output life expectancy (mechanical)</b>	1.000.000	1.000.000	1.000.000	1.000.000
<b>Specification KNX interface</b>	TP-256	TP-256	TP-256	TP-256
<b>Available application software</b>	ETS 3/4/5	ETS 3/4/5	ETS 3/4/5	ETS 3/4/5
<b>Permitted wire gauge</b>				
Screw terminal	0,5 - 4,0mm <sup>2</sup> solid core 0,5 - 2,5mm <sup>2</sup> finely stranded	0,5 - 4,0mm <sup>2</sup> solid core 0,5 - 2,5mm <sup>2</sup> finely stranded	0,5 - 4,0mm <sup>2</sup> solid core 0,5 - 2,5mm <sup>2</sup> finely stranded	0,5 - 4,0mm <sup>2</sup> solid core 0,5 - 2,5mm <sup>2</sup> finely stranded
KNX busconnection terminal	0,8mm Ø, solid core	0,8mm Ø, solid core	0,8mm Ø, solid core	0,8mm Ø, solid core
<b>Power supply</b>	KNX bus	KNX bus	KNX bus	KNX bus
<b>Power consumption KNX bus</b>	<0,3W	<0,3W	<0,3W	<0,3W
<b>Operation temperature range</b>	0 to +45°C	0 to +45°C	0 to +45°C	0 to +45°C
<b>Enclosure</b>	IP20	IP20	IP20	IP20
<b>Dimensions MDRC (Space Units)</b>	2SU	2SU	4SU	8SU

\* the total current of each supply terminal should not exceed maximum output switching current.

### Exemplary circuit diagram AKK-0816.02

