

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

Version		
AKK-0216.03	Switch Actuator 2-fold	2SU MDRC, 230VAC, 16A
AKK-0416.03	Switch Actuator 4-fold	2SU MDRC, 230VAC, 16A
AKK-0816.03	Switch Actuator 8-fold	4SU MDRC, 230VAC, 16A
AKK-1616.03	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.

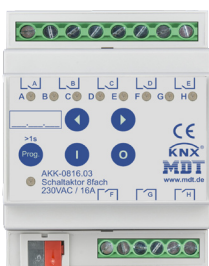
The MDT Switch Actuator AKK is a modular installation device for fixed installations in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes.

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

AKK-0216.03



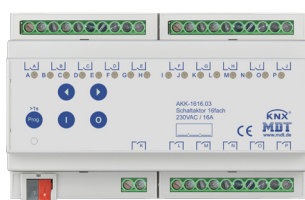
AKK-0816.03



AKK-0416.03



AKK-1616.03



- Production in Germany, certified according to ISO 9001
- **Function extension:**
- Lockable manual operation and LED indicator for each channel
- NO and NC contact operation
- Status response after manually operation
- Time functions (switch-on/switch-off delay)
- Extensive staircase light and impulse function
- Status response (active/passive) for each channel
- Extended scene functions for each channel
- 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 (AKK-02/0416.03)
- Each contact has an own supply phase (AKK-08/1616.03)
- Power supply via KNX bus
- Quick application download (long frame support for ETS5)
- Integrated bus coupling unit
- 3 years warranty

Technical Data	AKK-0216.03	AKK-0416.03	AKK-0816.03	AKK-1616.03
Number of outputs	2	4	8	16
Output switching ratings*				
Ohmic load	16A	16A	16A	16A
Capacitive load	70uF	70uF	70uF	70uF
Voltage	230VAC	230VAC	230VAC	230VAC
Maximum inrush current	300A/150µs 150A/600µs	300A/150µs 150A/600µs	300A/150µs 150A/600µs	300A/150µs 150A/600µs
Maximum load				
Incandescent lamps	2000W	2000W	2000W	2000W
Halogen lamps 230V	2000W	2000W	2000W	2000W
Halogen lamps, electronic transformer	1200W	1200W	1200W	1200W
Fluorescent lamps, not compensated	1800W	1800W	1800W	1800W
Fluorescent lamps, parallel comp.	800W	800W	800W	800W
Max. number of electronic transformers	10	10	10	10
Output life expectancy (mechanical)	1.000.000	1.000.000	1.000.000	1.000.000
Max. total current of the actuator	16A	16A	50A	100A
Specification KNX interface	TP-256 with long frame support for ETS5			
Available application software	ETS 4/5	ETS 4/5	ETS 4/5	ETS 4/5
Permitted wire gauge				
Screw terminal	0,5 - 2,5mm ² solid core 0,5 - 2,5mm ² finely stranded	0,5 - 4,0mm ² solid core 0,5 - 2,5mm ² finely stranded	1 x 0,5 - 4,0mm ² solid core / finely stranded 2 x 0,5 - 2,5mm ² solid core / finely stranded (no mix allowed)	
KNX busconnection terminal	0,8mm Ø, solid core	0,8mm Ø, solid core	0,8mm Ø, solid core	0,8mm Ø, solid core
Torque screw terminal	0,5Nm	0,5Nm	0,5Nm	0,5Nm
Power supply	KNX bus	KNX bus	KNX bus	KNX bus
Power consumption KNX bus	<0,3W	<0,3W	<0,3W	<0,3W
Operation temperature range	0 to +45°C	0 to +45°C	0 to +45°C	0 to +45°C
Enclosure	IP20	IP20	IP20	IP20
Dimensions MDRC (Space Units)	2SU	2SU	4SU	8SU

Exemplary circuit diagram AKK-0816.03

