

MDT Switch Actuator compact 2/4/8/16/24-fold, MDRC

Version		
AKK-0216.03	Switch Actuator 2-fold	2 SU MDRC, 230 V AC, 16 A
AKK-0416.03	Switch Actuator 4-fold	2 SU MDRC, 230 V AC, 16 A
AKK-0816.03	Switch Actuator 8-fold	4 SU MDRC, 230 V AC, 16 A
AKK-1616.03	Switch Actuator 16-fold	8 SU MDRC, 230 V AC, 16 A
AKK-2416.03	Switch Actuator 24-fold	12 SU MDRC, 230 V AC, 16 A

The MDT Switch Actuator AKK receives KNX/EIB telegrams and switches up to 24 independent electrical loads. Each output uses a bistable relay and can be operated manually via a push button. The outputs are set 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 recovery the relay position is selected in dependence on the settings.

The MDT Switch Actuator AKK is a modular installation device for fixed installations in dry rooms. It fits on DIN 35 mm 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

Mixed operation of nominal and safety extra low voltage (SELV) within the actuator is not permitted!

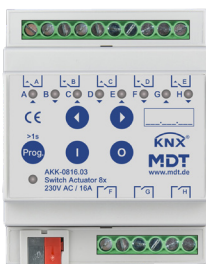
AKK-0216.03



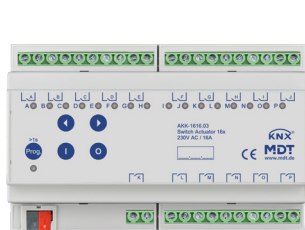
AKK-0416.03



AKK-0816.03



AKK-1616.03



AKK-2416.03



- 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 behaviour in case of bus voltage failure or return
- Common supply phase (AKK-02/0416.03)
- Separate L-connections (AKK-08/16/2416.03)
- Power supply via KNX bus
- Quick application download (long frame support for ETS 5)
- Integrated bus coupling unit
- 3 years warranty

Technical Data	AKK-0216.03 AKK-0416.03	AKK-0816.03 AKK-1616.03 AKK-2416.03
Number of outputs	2/4	8/16/24
Output switching ratings*		
Ohmic load	16 A	16 A
Capacitive load	70 µF	70 µF
Voltage	230 V AC	230 V AC
Maximum inrush current	300 A / 150 µs 150 A / 600 µs	300 A / 150 µs 150 A / 600 µs
Maximum load		
Incandescent lamps	2000 W	2000 W
Halogen lamps 230 V	2000 W	2000 W
Halogen lamps, electronic transformer	1200 W	1200 W
Fluorescent lamps, not compensated	1800 W	1800 W
Fluorescent lamps, parallel comp.	800 W	800 W
Max. number of electronic transformers	10	10
Output life expectancy (mechanical)	1.000.000	1.000.000
Max. total current of the actuator	16 A / 16 A	50 A / 100 A / 125 A
Specification KNX interface	TP-256 with long frame support for ETS 5	TP-256 with long frame support for ETS 5
Available application software	from ETS 4	from ETS 4
Permitted wire gauge		
Screw terminal (max. 0,5 Nm tightening torque)	0,5 - 2,5 mm ²	0,5 - 4,0 mm ²
KNX bus connection terminal	Ø 0,8 mm, solid core	Ø 0,8 mm, solid core
Power supply	KNX bus	KNX bus
Power consumption KNX bus	< 0,3 W	< 0,3 W
Operation temperature range	0 ... 45 °C	0 ... 45 °C
Enclosure	IP20	IP20
Dimensions MDRC (Space Units)	2/2 SU	4/8/12 SU

Exemplary circuit diagram AKK-0816.03

