

MDT Switch Actuator 4/8/12/16/20-fold, MDRC

Version		
AKS-0416.03	Switch Actuator 4-fold	4SU MDRC, 230VAC, 16A, C-Load 140uF
AKS-0816.03	Switch Actuator 8-fold	6SU MDRC, 230VAC, 16A, C-Load 140uF
AKS-1216.03	Switch Actuator 12-fold	8SU MDRC, 230VAC, 16A, C-Load 140uF
AKS-1616.03	Switch Actuator 16-fold	8SU MDRC, 230VAC, 16A, C-Load 140uF
AKS-2016.03	Switch Actuator 20-fold	12SU MDRC, 230VAC, 16A, C-Load 140uF

The new AKS series offers more channels at less space, so lower costs per channel.

The MDT Switch Actuator receives KNX/EIB telegrams and switches up to 20 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 MDT Switch Actuator is suitable for high inrush currents and used for heavy loads (C-Load).

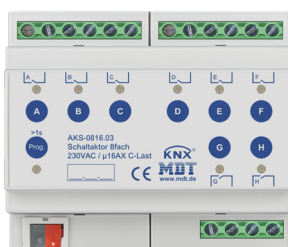
The outputs are parameterized individually via ETS3/4. The device provides extensive functions like logical operation, status response, block functions, central function, delay functions and staircase lighting function. Additionally the device provides several time and scene control. If the mains voltage fails, all outputs hold their current position. After bus voltage failure or recovery the relay position is selected in dependence on the parameterization.

The MDT Switch Actuator has separate power supply terminals for each channel and are very space saving by ideal form factor.

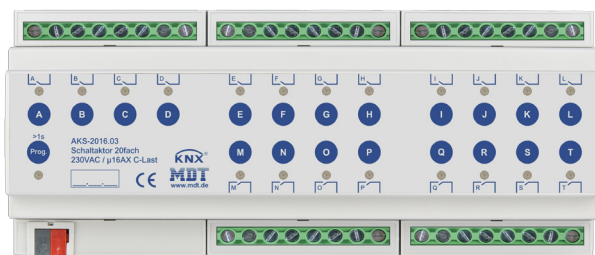
The MDT Switch Actuator is a modular installation device for fixed installation in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes.

For project design and commissioning of the MDT Switch Actuator it is recommended to use the ETS or later. Please download the application software at www.mdt.de/Downloads.html

AKS-0816.03



AKS-2016.03



- Production in Germany, certified according to ISO 9001
- **Space saving by ideal form factor**
- **Saves up to 30% space (only AKS-2016.03)**
- **Extensive function extension**
- Lockable manual operation and LED indicator for each channel
- NO and NC contact operation
- Status response at manually operation
- Time functions (switch-on/switch-off delay, staircase light functions)
- Extended logical and scene functions for each channel
- Extended status functions (inverted, cyclic, at block)
- **Threshold switch (Byte/2Byte/2Byte float)**
- **Hour meter for switching**
- **Priority/forced operation with automatic release time**
- Separate power supply terminals for each channel
- Power supply via KNX bus
- Quick application download (long frame support for ETS5)
- Modular installation device for DIN 35mm rails
- Integrated bus coupling unit
- 3 years warranty

Technical Data	AKS-0416.03 AKS-0816.03 AKS-1216.03 AKS-1616.03 AKS-2016.03				
Number of outputs	4	8	12	16	20
Output switching ratings					
Ohmic load	16A				
Capacitive load	140µF				
Voltage	230VAC				
Maximum inrush current	600A/150µs 250A/600µs				
Maximum load					
Incandescent lamps	2500W				
Halogen lamps 230V	2500W				
Halogen lamps, electronic transformer*	1500W				
Fluorescent lamps, not compensated	2300W				
Fluorescent lamps, parallel comp.	1500W				
Max. number of electronic transformers	20				
Output life expectancy (mechanical)	1.000.000				
Max. total current of the actuator	64A	96A	128A	128A	192A
Specification KNX interface	TP-256 with long frame support for ETS5				
Available application software	ETS 4/5				
Permitted wire gauge					
Screw terminal	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				
Torque screw terminal	0,5Nm				
Power supply	KNX bus				
Power consumption KNX bus typ.	< 0,25W	< 0,25W	< 0,3W	< 0,3W	
Operation temperature range	0 to + 45°C				
Enclosure	IP 20				
Dimensions MDRC (Space Units)	4SU	6SU	8SU	8SU	12SU

* low voltage halogen lamps with electronic transformer

Exemplary circuit diagram AKS-0816.03

