

## MDT Switch Actuator 2/4/8/12-fold, MDRC

Version		
AKS-0210.03	Switch Actuator 2-fold	2SU MDRC, 230VAC, 10A, C-Load 140uF
AKS-0410.03	Switch Actuator 4-fold	4SU MDRC, 230VAC, 10A, C-Load 140uF
AKS-0810.03	Switch Actuator 8-fold	6SU MDRC, 230VAC, 10A, C-Load 140uF
AKS-1210.03	Switch Actuator 12-fold	8SU MDRC, 230VAC, 10A, C-Load 140uF

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

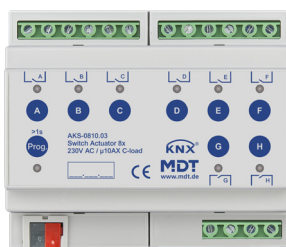
The MDT Switch Actuator receives KNX/EIB telegrams and switches up to 12 independent electrical loads. Each output uses a bistable relay and can be operated manually via a push button. A green LED indicates the switching status of each channel.

The outputs are parameterized individually via 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 bus voltage fails, all outputs hold their current position. After bus voltage failure or recovery the relay position is selected in dependence on the parameterization.

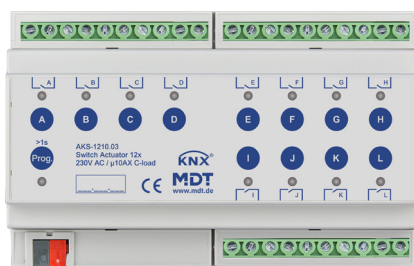
The MDT Switch Actuator is a modular installation device for fixed installation in dry rooms. It fits on DIN 35mm rails in power distribution boards or closed compact boxes.

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](http://www.mdt.de/Downloads.html)

AKS-0810.03



AKS-1210.03



- Production in Germany, certified according to ISO 9001
- **Space saving design**
- **Comprehensive application**
- 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**
- 4mm<sup>2</sup> / 2x2,5mm<sup>2</sup> screw terminals. Separate supply phases
- Power supply via KNX bus
- Quick application download (long frame support for ETS5)
- 3 years warranty

Technical Data	AKS-0210.03	AKS-0410.03	AKS-0810.03	AKS-1210.03
Number of outputs	2	4	8	12
Output switching ratings				
Ohmic load	10A			
Capacitive load	140uF			
Voltage	230VAC			
Maximum inrush current	600A/150µs 250A/600µs			
Maximum load				
Incandescent lamps	2200W			
Halogen lamps 230V	2200W			
Halogen lamps, electronic transformer*	1400W			
Fluorescent lamps, not compensated	2000W			
Fluorescent lamps, parallel comp.	1400W			
Max. number of electronic transformers	20			
Output life expectancy (mechanical)	1.000.000			
Max. total current of the actuator	20A	40A	80A	120A
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 <sup>2</sup> ) 2 x (0,5 - 2,5mm <sup>2</sup> )			
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	< 0,25W	< 0,3W
Operation temperature range	0 to + 45°C			
Enclosure	IP 20			
Dimensions MDRC (Space Units)	2SU	4SU	6SU	8SU

\* low voltage halogen lamps with electronic transformer

**Exemplary circuit diagram AKS-0810.03**

