

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

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

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.

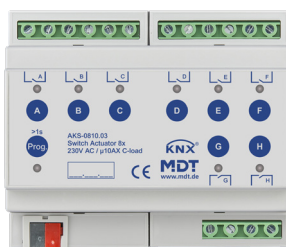
The outputs are set individually via ETS. The device provides extensive functions like logical operation, status response, block functions, central function, delay functions and staircase lighting function. Additionally the device provides several time and scene control. If the bus voltage fails, all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

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

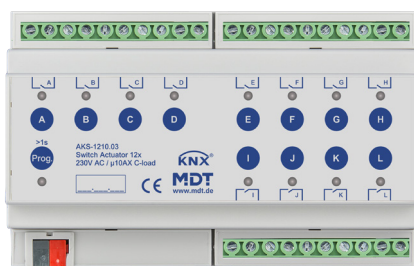
For project design and commissioning of the MDT Switch Actuator it is recommended to use the ETS or later. Please download the application software at www.mdt.de/Downloads.html

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

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/2 Byte/2 Byte float)**
- **Hour meter for switching**
- **Priority/forced operation with automatic release time**
- 4 mm² / 2x 2,5 mm² screw terminals. Separate supply phases
- Power supply via KNX bus
- Quick application download (long frame support for ETS 5)
- 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	10 A			
Capacitive load	140 µF			
Voltage	230 V AC			
Maximum inrush current	600 A / 150 µs 250 A / 600 µs			
Maximum load				
Incandescent lamps	2200 W			
Halogen lamps 230 V	2200 W			
Halogen lamps, electronic transformer*	1400 W			
Fluorescent lamps, not compensated	2000 W			
Fluorescent lamps, parallel comp.	1400 W			
Max. number of electronic transformers	20			
Output life expectancy (mechanical)	1.000.000			
Max. total current of the actuator	20 A	40 A	80 A	120 A
Specification KNX interface	TP-256 with long frame support for ETS 5			
Available application software	from ETS 4			
Permitted wire gauge				
Screw terminal	0,5 - 4,0 mm ²			
KNX bus connection terminal	Ø 0,8 mm, solid core			
Torque screw terminal	0,5 Nm			
Power supply	KNX bus			
Power consumption KNX bus typ.	< 0,25 W	< 0,25 W	< 0,25 W	< 0,3 W
Operation temperature range	0 ... 45 °C			
Enclosure	IP20			
Dimensions MDRC (Space Units)	2 SU	4 SU	6 SU	8 SU

* low voltage halogen lamps with electronic transformer

Exemplary circuit diagram AKS-0810.03

