

MDT Switch Actuator 2/4/8/12/16/20/24-fold, MDRC

Version		
AKS-0216.03	Switch Actuator 2-fold	2 SU MDRC, 230 V AC, 16 A, C-Load 140 µF
AKS-0416.03	Switch Actuator 4-fold	4 SU MDRC, 230 V AC, 16 A, C-Load 140 µF
AKS-0816.03	Switch Actuator 8-fold	6 SU MDRC, 230 V AC, 16 A, C-Load 140 µF
AKS-1216.03	Switch Actuator 12-fold	8 SU MDRC, 230 V AC, 16 A, C-Load 140 µF
AKS-1616.03	Switch Actuator 16-fold	8 SU MDRC, 230 V AC, 16 A, C-Load 140 µF
AKS-2016.03	Switch Actuator 20-fold	12 SU MDRC, 230 V AC, 16 A, C-Load 140 µF
AKS-2416.03	Switch Actuator 24-fold	12 SU MDRC, 230 V AC, 16 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 24 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 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.

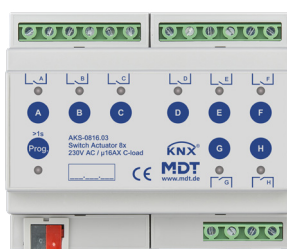
The MDT Switch Actuator has separate power supply terminals for each channel and are very space saving by ideal form factor.

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.

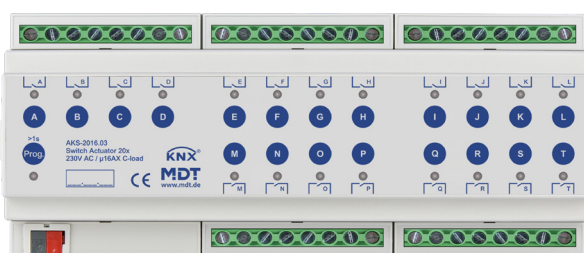
For project design and commissioning of the MDT Switch Actuator it is recommended to use the ETS or later. Please download the application software at www.mdt.de/Downloads.html

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

AKS-0816.03



AKS-2016.03



- 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-0216.03						
	AKS-0416.03			AKS-1616.03			
	AKS-0816.03			AKS-2016.03			
	AKS-1216.03			AKS-2416.03			
Number of outputs	2	4	8	12	16	20	24
Output switching ratings							
Ohmic load	16 A						
Capacitive load	140 µF						
Voltage	230 V AC						
Maximum inrush current	600 A / 150 µs 250 A / 600 µs						
Maximum load							
Incandescent lamps	2500 W						
Halogen lamps 230 V	2500 W						
Halogen lamps, electronic transformer*	1500 W						
Fluorescent lamps, not compensated	2300 W						
Fluorescent lamps, parallel comp.	1500 W						
Max. number of electronic transformers	20						
Output life expectancy (mechanical)	1.000.000						
Max. total current of the actuator	32 A	64 A	96 A	128 A	128 A	192 A	192 A
Specification KNX interface	TP-256 with long frame support for ETS 5						
Available application software	ab ETS 4						
Permitted wire gauge							
Screw terminal	0,5 - 4,0 mm ²						
KNX busconnection 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	< 0,3 W	< 0,3 W	< 0,3 W
Operation temperature range	0 ... 45 °C						
Enclosure	IP20						
Dimensions MDRC (Space Units)	2 SU	4 SU	6 SU	8 SU	8 SU	12 SU	12 SU

* low voltage halogen lamps with electronic transformer

Exemplary circuit diagram AKS-0816.03

