MDT Switch Actuator 3-fold, flush mounted

Version		
AKK-03UP.03	Switch Actuator 3-fold / Fancoil	Flush mounted, 230 V AC, 10 A

The MDT Switch Actuator AKK receives KNX telegrams and switches up to 3 independent electrical loads in operation mode as switching actuator. Each output uses a monostable relay and is individually agjustable via ETS. In aoperation mode as fan coil actuator a 3 step ventilators is controlled.

Fan coil mode:
• Control of 3-speed fans/ventilator convectors
• Outputs are locked against each other
• Direct operation by three 1 Bit objects or a single 1 Bit object (+/-)
• Automatic operation by 1 Byte control value (0-100 %)
• Suitable for 2-pipe / 4-pipe systems
• Output objects to control valves for heating/cooling
• Day/Night function to limit fan speed at night
• Emergency operation if actuating variable fails

Switch Actuator mode:
• NO and NC contact operation
• Time functions (switch-on/switch-off delay)
• Staircase light function with adjustable warning time
• Status response (active/passive) for each channel
• Logical linking of binary data, 8 scenes per channel
• Central switching functions and block functions
• Adjustable behaviour in case of bus voltage return

The MDT Switch Actuator AKK Fancoil is a modular installation device for fixed installations 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 AKK Fancoil it is recommended to use the ETS. Please download the application software at www.mdt.de/downloads.html

AKK-03UP.03

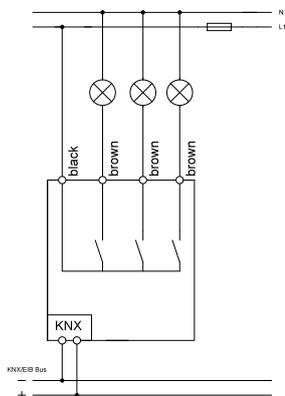• Production in Germany, certified according to ISO 9001
Fan coil mode:
• Control of 3-speed fans/ventilator convectors
• Outputs are interlocked
• Direct operation by three 1 Bit objects or a single 1 Bit object (+/-)
• Automatic operation by 1 Byte control value (0-100 %)
• Suitable for 2-pipe / 4-pipe systems
• Output objects to control valves for heating/cooling
• Day/Night function to limit fan speed at night
• Emergency operation if variable fails
Switch Actuator mode:
• NO and NC contact operation
• Time functions (switch-on/switch-off delay)
• Staircase light function with adjustable warning time
• Status response (active/passive) for each channel
• Logical linking of binary data, 8 scenes per channel
• Central switching functions and block functions
• Adjustable behaviour in case of bus voltage return
• Flush mounted in an installation box
• Quick application download (long frame support for ETS 5)
• 3 years warranty

Technical Data	AKK-03UP.03	
Number of outputs	3	
Output switching ratings		
Ohmic load	10 A	
Capacitive load	14 µF at 10 A	
Voltage	230 V AC	
Maximum inrush current	150 A / 150 µs 50 / 600 µs	
Maximum load		
Incandescent lamps	1500 W	
Halogen lamps 230 V	1200 W	
Halogen lamps, electronic transformer	500 W	
Fluorescent lamps, not compensated	500 W	
Fluorescent lamps, parallel comp.	120 W	
Max. number of electronic transformers	2	
Output life expectancy (mechanical)	1.000.000	
Max. total current of the actuator	16 A	
Fuse protection	10 A	
Specification KNX interface	TP-256 with long frame support for ETS 5	
Available application software	from ETS 4	
Permitted wire gauge		
KNX bus connection terminal	Ø 0,8 mm, solid core	
Power supply	KNX bus	
Power consumption KNX bus typ.	< 0,3 W	
Operation temperature range	0 ... 45 °C	
Enclosure	IP20	
Dimensions (W x H x D)	41 mm x 41 mm x 22 mm	

Examplary circuit diagram AKK-03UP.03

Examplary circuit diagram AKK-03UP.03 Fancoil