

## MDT Switch Actuator 4-fold, MDRC

Version		
AKK-04FC.03	Switch Actuator 4-fold / Fancoil	2SU MDRC, 230VAC, 16A

The MDT Switch Actuator AKK receives KNX telegrams and switches up to 4 independent electrical loads in operation mode as switching actuator. Each output uses a bistable relay and is individually adjustable via ETS. In operation mode as fan coil actuator 3 or 4 step ventilators are controlled. In 3 speed operation the fourth channel can be used as output for valve control.

### Fan coil mode:

- Control of 3/4-speed fans/ventilator convectors
- Additional switching output at 3-speed operation
- Outputs are locked against each other
- Direct operation by three 1Bit objects or a single 1Bit object (+/-)
- Automatic operation by 1Byte 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 failure or 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](http://www.mdt.de/downloads.html)

AKK-04FC.03



- Production in Germany, certified according to ISO 9001

### Fan coil mode:

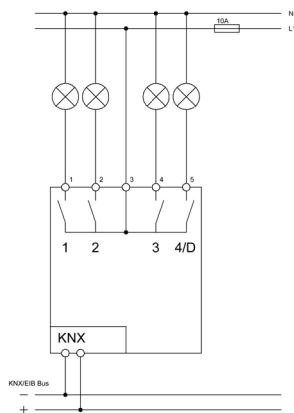
- Control of 3-/4-speed fans/ventilator convectors
- Additional switching output at 3-speed operation
- Outputs are interlocked
- Direct operation by three 1Bit objects or a single 1Bit object (+/-)
- Automatic operation by 1Byte control value (0-100%)
- Suitable for 2-pipe/4-pipe systems
- Output objects to control valves for heating/cooling
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- Central switching functions and block functions
- Adjustable behaviour in case of bus voltage failure or return
- Quick application download (long frame support for ETS5)
- 3 years warranty

<b>Technical Data</b>	AKK-04FC.03	
<b>Number of outputs</b>	4	
<b>Output switching ratings</b>		
Ohmic load	16A	
Capacitive load	70µF	
Voltage	230VAC	
<b>Maximum inrush current</b>	300A/150µs 150/600µs	
<b>Maximum load</b>		
Incandescent lamps	2000W	
Halogen lamp 230V	2000W	
Halogen lamp, electronic transformer	1200W	
Fluorescent lamp not compensated	1800W	
Fluorescent lamp parallel compensated	800W	
max. number of electronic transformers	10	
<b>Output life expectancy (mechanical)</b>	1.000.000	
<b>Max. total current of the actuator</b>	16A	
<b>Specification KNX interface</b>	TP-256 with long frame support for ETS5	
<b>Available application software</b>	ETS 4/5	
<b>Permitted wire gauge</b>		
Screw terminal	0,5 - 4,0mm <sup>2</sup> eindrähtig 0,5 - 2,5mm <sup>2</sup> feindrähtig	
KNX busconnection terminal	0,8mm Ø, solid core	
<b>Power supply</b>	KNX bus	
<b>Power consumption KNX bus typ.</b>	<0,3W	
<b>Operation temperature range</b>	0 to + 45°C	
<b>Enclosure</b>	IP 20	
<b>Dimensions MDRC</b>	2SU	

Exemplary circuit diagram AKK-04FC.03 Switching Actuator



Exemplary circuit diagram AKK-04FC.03 Fan coil

