

MDT Switch Actuator 3/6-fold with current/active power measurement, MDRC

Version		
AZI-0316.01	Switch Actuator 3-fold	4SU MDRC, 230VAC, 16/20A, C-Load 240uF, current/active power measurement
AZI-0616.01	Switch Actuator 6-fold	8SU MDRC, 230VAC, 16/20A, C-Load 200uF, current/active power measurement

The MDT Switch Actuator receives KNX/EIB telegrams and switches up to 6 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.

The MDT Switch Actuator offers current measurement for each channel and measurement of the total current. In dependence on the parameterization the measured data can be transmit in different data formats (mA/A/kW) onto the KNX bus. Additionally the device provides an hour/service interval meter. The integrated counter allows to capture the active power consumption exactly.

If the mains 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 35 mm rails in power distribution boards or closed compact boxes. The MDT Switch Actuator has a separate power supply terminals for each channel.

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

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- Production in Germany, certified according to ISO 9001
- Push Button and LED indicator for each channel
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data, 8 scenes per channel
- Hour meter
- Central switching functions and block functions
- Adjustable behaviour in case of bus voltage failure/return
- Separate L- connections
- **Integrated True RMS current measurement (current, kW)**
- **Current measurement range 10 mA-20 A**
- **Fast reaction <1 s at Master/Slave operation**
- **Active power measurement with integrated counter (Wh/kWh) with current and voltage rating**
- Power supply via KNX bus
- Modular installation device for DIN 35 mm rails
- Integrated bus coupling unit
- 3 years warranty

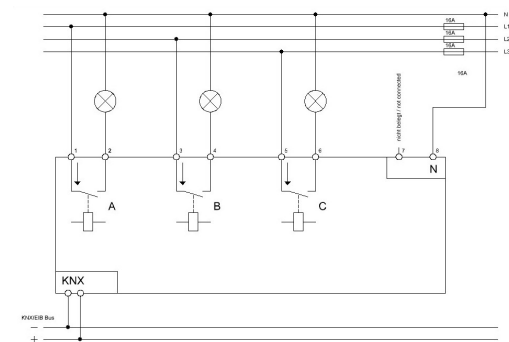
Technical Data	AZI-0316.01	AZI-0616.01
Number of outputs	3	6
Current measurement range	10 mA - 20 A	10 mA - 20 A
Measuring inaccuracy	2 % ***	2 % ***
Sampling rate	2000 samples/500 ms	2000 samples/500 ms
Output switching ratings		
Ohmic load	16/20 A *	16/20 A *
Capacitive load	200 uF at 16 A	200 uF at 16 A
Voltage	230VAC	230VAC
Maximum inrush current	600 A/150 µs 300 A/600 µs	600 A/150 µs 300 A/600 µs
Maximum load		
Incandescent lamps	3680 W	3680 W
Halogen lamps 230V	3680 W	3680 W
Halogen lamps, electronic transformer	2000 W **	2000 W **
Fluorescent lamps, not compensated	3680 W	3680 W
Fluorescent lamps, parallel comp.	2500 W	2500 W
Max. number of electronic transformers	28	28
Output life expectancy (mechanical)	1.000.000	1.000.000
Max. total current of the actuator	48 A	72 A
Specification KNX interface	TP-256	TP-256
Available application software	ETS 4/5/6	ETS 4/5/6
Permitted wire gauge		
Screw terminal	1 x (0,5 - 4,0 mm ²) 2 x (0,5 - 2,5 mm ²)	1 x (0,5 - 4,0 mm ²) 2 x (0,5 - 2,5 mm ²)
KNX busconnection terminal	0,8 mm Ø, solid core	0,8 mm Ø, solid core
Torque screw terminal	0,5 Nm	0,5 Nm
Power supply	KNX bus	KNX bus
Power consumption KNX bus typ.	< 0,4 W	< 0,4 W
Operation temperature range	0 to + 45 °C	0 to + 45 °C
Enclosure	IP 20	IP 20
Dimensions MDRC (Space Units)	4 SU	8 SU

* Total current carrying capacity neighbouring outputs max. 32 A

** Low voltage halogen lamps with electronic transformer

*** Applicable for currents > 30 mA. The measuring accuracy may deviate in the case of strong inharmonic loads.

Exemplary circuit diagram AZI-0316.01



Exemplary circuit diagram AZI-0616.01

