

AMS-0416.03

KNX Switch Actuator 4-channel, 4 SU MDRC, 16 A, 230 V AC, C-load, standard, 140 µF, current measurement



Product description:

The MDT Switch Actuator AMS with current measurement in standard design measures reliably current up to 16 A per channel. Herewith for e.g., load surpass, and load shortfall can be monitored. The current measurement per channel can be accounted for in total current measurement.

Product functions:

- **Comprehensive function extension**
- **Integrated True RMS current measurement**
- **Current measurement range 10 mA ... 16 A**
- **Integrated meter function for energy consumption (Wh/kWh)**
- **Fast reaction < 1 s in Master/Slave operation**
- Push-button for manual operation and LED Indicator per channel
- Time functions (switch on-/switch off delay, staircase light function)
- **Threshold switch function and consumption threshold value**
- Logical functions, 8 scenes per channel
- **Operating hours meter**
- Extended status functions (inverted, cyclic, during locking)
- **Priority/forced operation with automatic release time**
- Behaviour on Bus power failure/reset selectable
- **4 mm² connection terminals. Individual L-connections**

Technical data:

Device	Device type	AMS Switch Actuator	
	Article Number	AMS-0416.03	
	EAN / GTIN	4251916130824	
	Installation width	4 SU / 72 mm	
	Dimensions (H x W x D)	90 x 72 x 65 mm	
	Weight, gross (incl. packaging)	0.236 kg	
	Protection classification	IP20	
	Installation type	MDRC, DIN rail 35 mm	
	Installation position	any	
	Weight, net	0.208 kg	
	Mechanical manual override	No	
	Performance data	Nominal voltage U_n	230 V AC ^{*1}
		Nominal current I_n (per output)	16 A
Nominal frequency		50/60 Hz	
Relay type		bistable	
Mech. switching frequency		1.000.000	
Capacitive load		140 μ F / 16 A	
Fluorescent lamp load AX		\leq 16 AX	
Power dissipation of the device, typical		\leq 3 W	
Outputs	Number of outputs	4	
Lamp data	Incandescent lamp load	2500 W	
	HV-Halogen lamps	2500 W	
	NV-Halogen lamps	1500 W	
	Fluorescent lamp uncompensated	2300 W	
	Fluorescent lamp parallel compensation	1300 W	
	Max. number of ECG	20	
Currents	Inrush current (150 μ s)	600 A	
	Inrush current (600 μ s)	250 A	
	Total current carrying capacity of the actuator	64 A	
	Current measuring range	10 mA ... 10 A	
	Measurement accuracy, typical	2 %	
	Sampling rate	2000 measurements / 500 ms	
KNX	Nominal voltage KNX	30 V DC SELV	
	Voltage range KNX	21 ... 31 V DC SELV	
	Typical power consumption KNX bus	< 0,3 W	
	KNX Medium	TP-256 with long frame support	
	KNX Application	as of ETS 5 (latest)	

Technical data:

Environmental conditions	Ambient operating temperature	0 ... 45 °C
	Storage	-20 ... +55 °C
	Humidity	< 95 %
	Condensation permissible	No
Connections	Connection type	Screw terminal with slotted head
	Conductor cross section 1 x	0,5 ... 4 mm ²
	Screw terminal tightening torque	0.5 Nm
	KNX connection type	KNX terminal
	KNX cable cross section	0.6 ... 0.8 mm, solid conductor

Hinweise

Protection against induced voltage spikes: To protect against voltage spikes when switching off inductive loads, it is recommended to use appropriate protective circuits such as flyback diodes, RC networks, or varistors directly at the actuator output.

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

Wiring diagram:

