

## AKS-0810.03

KNX Switch Actuator 8-channel, 6 SU MDRC, 10 A, 230 V AC, C-load, standard, 140 µF



### Product description:

The MDT Switch Actuator AKS 10 A in standard version for low loads and a wide range of functions. The AKS series offers more channels with less space requirement, which minimises costs per channel and for the distribution board. The actuator is equipped with bistable relays for currents up to 16 A and a C-load of up to 140 µF. Each channel can be switched directly by means of a button on the actuator.

### Product functions:

- **Space saving due to an optimised form factor**
- **Comprehensive application**
- Manual mode blockable and LED indicator per channel
- Normally open and normally closed
- Status feedback for all channels (also for manual operation)
- Time functions (switch on-/switch off delay, staircase light function)
- **Extended logic and scene function per channel**
- Extended status functions (inverted, cyclic, during locking)
- **Threshold switch (1 Byte/2 Byte/2 Byte float)**
- **Operating hours meter**
- **Priority/forced operation with automatic release time**
- **4 mm<sup>2</sup> connection terminals. Individual L-connections**
- Power supply over the KNX Bus
- Fast application download (long frame support as of ETS 5)
- 3 year warranty

## Technical data:

<b>Device</b>	Device type	AKS Switch Actuator	
	Article Number	AKS-0810.03	
	EAN / GTIN	4251916130329	
	Installation width	6 SU / 108 mm	
	Dimensions (H x W x D)	90 x 108 x 65 mm	
	Weight, gross (incl. packaging)	0.34 kg	
	Protection classification	IP20	
	Installation type	MDRC, DIN rail 35 mm	
	Installation position	any	
	Weight, net	0.306 kg	
	Mechanical manual override	No	
	<b>Performance data</b>	Nominal voltage $U_n$	230 V AC <sup>*1</sup>
		Nominal current $I_n$ (per output)	10 A
Nominal frequency		50/60 Hz	
Relay type		bistable	
Mech. switching frequency		1.000.000	
Capacitive load		140 $\mu$ F / 16 A	
Fluorescent lamp load AX		$\leq$ 16 AX	
Power dissipation of the device, typical		$\leq$ 8 W	
<b>Outputs</b>	Number of outputs	8	
<b>Lamp data</b>	Incandescent lamp load	2200 W	
	HV-Halogen lamps	2200 W	
	NV-Halogen lamps	1400 W	
	Fluorescent lamp uncompensated	2000 W	
	Fluorescent lamp parallel compensation	1400 W	
	Max. number of ECG	20	
<b>Currents</b>	Inrush current (150 $\mu$ s)	600 A	
	Inrush current (600 $\mu$ s)	250 A	
	Total current carrying capacity of the actuator	80 A	
<b>KNX</b>	Nominal voltage KNX	30 V DC SELV	
	Voltage range KNX	21 ... 31 V DC SELV	
	Typical power consumption KNX bus	$<$ 0,25 W	
	KNX Medium	TP-256 with long frame support	
	KNX Application	as of ETS 4	

## Technical data:

<b>Environmental conditions</b>	Ambient operating temperature	0 ... 45 °C
	Storage	-20 ... +55 °C
	Humidity	< 95 %
	Condensation permissible	No
<b>Connections</b>	Connection type	Screw terminal with slotted head
	Conductor cross section 1 x	0,5 ... 4 mm <sup>2</sup>
	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:

