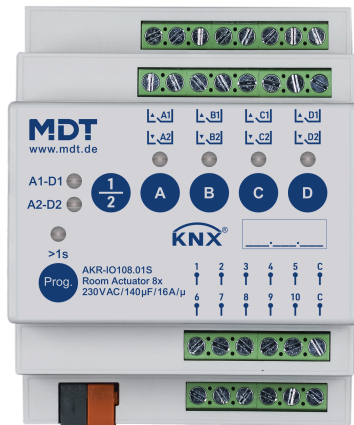


AKR-IO108.01S

KNX Room Actuator 8-channel, 10 inputs, 4SU, MDRC, 16 A, 140 µF, Secure



Product description:

Compact and versatile room actuator for switching and blind functions. With flexible analogue/digital inputs for connecting temperature sensors or potential-free contacts. Heating control via PWM, integrated room temperature controller and fan coil and ventilation functions. Comprehensive scene, time and central functions ensure a high level of comfort. Future-proof with KNX Secure.

Product functions:

- Can be used as a Switch Actuator or as a Shutter Actuator
- Mixed operation as switch- and shutter Actuator
- Heating control with PWM 0-100 %
- Integrated room temperature controller with settable control parameters and externally adjustable setpoint value
- Connection and evaluation of analogue temperature sensors
- Binary inputs to connect potential free contacts (Mechanical Push-buttons, Switches, window contacts)
- Fan coil functions
- Practice-oriented ventilation function (window opened/tilted)
- Time functions (switch on-/switch off delay, staircase light function)
- Central functions and blocking objects for forced operation
- Travel-, pause- and step time selectable
- Comprehensive scene functions
- Push-button for manual operation and LED Indicator per channel
- Behaviour on Bus power failure/reset selectable
- Supports KNX Data Secure (as of ETS 5.7.2)
- 3 year warranty

Technical data:

Device	Device type	AKR Room Actuator
	Article Number	AKR-IO108.01S
	EAN / GTIN	4251916130947
	Installation width	4 SU / 72 mm
	Dimensions (H x W x D)	90 x 72 x 65 mm
	Weight, gross (incl. packaging)	0.302 kg
	Protection classification	IP20
	Installation type	MDRC, DIN rail 35 mm
	Installation position	any
	Weight, net	0.272 kg
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
	Power dissipation of the device, typical	≤ 8 W
Inputs	Number of universal inputs	10 ^{*2}
	Input voltage	For potential-free contacts (12 V internally generated)
Outputs	Number of outputs	8
	Maximum motor power per channel	600 W
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	1500 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	50 A

Technical data:

KNX	Nominal voltage KNX	30 V DC SELV
	Voltage range KNX	21 ... 31 V DC SELV
	Typical power consumption KNX bus	1 W
	KNX Medium	TP-256 with long frame support
	KNX Application	as of ETS 5 (latest)
	KNX Secure	KNX Data Secure
	KNX Secure: Encrypted group addresses	872
	KNX Secure: Number of communication partners	320
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 ... 2,5 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

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

*2 Each input can be used as a binary input, PT1000 input, or NTC input.