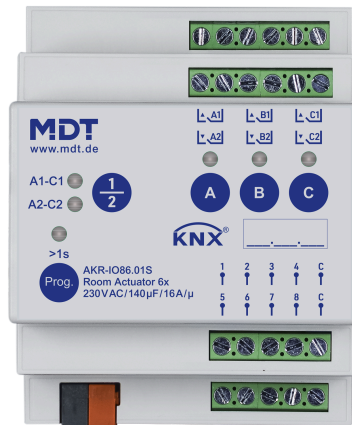


AKR-IO86.01S

KNX Room Actuator 6-channel, 8 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:

- **KNX Data Secure**
- **Can be used as a Switch Actuator or as a 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

Technical data:

Device	Device type	AKR Room Actuator
	Article Number	AKR-IO86.01S
	EAN / GTIN	4251916130930
	Installation width	4 SU / 72 mm
	Dimensions (H x W x D)	90 x 72 x 65 mm
	Weight, gross (incl. packaging)	0.27 kg
	Protection classification	IP20
	Installation type	MDRC, DIN rail 35 mm
	Installation position	any
	Weight, net	0.242 kg
	Performance data	Nominal voltage U_n
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		\leq 6 W
Inputs	Number of universal inputs	8 ^{*2}
	Input voltage	For potential-free contacts (12 V internally generated)
Outputs	Number of outputs	6
	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
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.

Wiring diagram:

