

# KNX-SA24

## UNIVERSAL SWITCH ACTUATOR

KNX-SA24 module is a universal switch actuator, which makes it possible to control electrical devices (lighting, ventilation). The telegrams received from various KNX devices (e.g. sensors) are converted, via the module, into concrete actions, such as switching on/off light or fan.

The KNX-SA24 module has 8 relay outputs. Each of them corresponds to one logical channel.

Features:

- communication with KNX bus via integrated bus connector
- feedback on the state of module and individual channels
- reaction of each channel can be defined in case of KNX bus voltage loss and recovery
- reaction of each channel can be defined in case of mains voltage recovery
- time functions (flashing, on/off delay, staircase light function with advance warning option and operating time change)
- logic functions (AND, NAND, OR, NOR, XOR, XNOR)
- threshold value function
- safety functions
- state forcing functions
- scenes for each of the channels can be called up by using 1- and 8-bit commands
- manual control of each channel state by using buttons situated on enclosure
- status LEDs for each channel
- capability of switching between resistive, inductive and capacitive loads
- module configuration using ETS software
- suitable for mounting on DIN rail (35 mm)

**TECHNICAL DATA**

Electrical endurance (number of switching cycles), AC1 (600 cycles/h)	> 10 <sup>6</sup> 16 A / 250 V AC
Electrical endurance (number of switching cycles), DC1 (600 cycles/h)	> 10 <sup>6</sup> 16 A / 24 V AC
Electrical endurance (number of switching cycles), AC3 (I = 3,5 A)	> 2,5 x 10 <sup>5</sup>
Electrical endurance (number of switching cycles), AC1 (when loaded with 1000 W incandescent lamps)	> 0,9 x 10 <sup>5</sup>
Fluorescent lamps (without compensation)	3680 W
Fluorescent lamps (parallel compensation)	2500 W, 200 µF
Fluorescent lamps (series compensation)	3680 W, 200 µF
Compact fluorescent lamps (without compensation)	3680 W
Compact fluorescent lamps (parallel compensation)	2500 W, 200 µF
HV 230V halogen lamps	3680 W
LV halogen lamps (electronic transformer)	2500 W
LV halogen lamps (conventional transformer)	2000 VA
High-pressure mercury lamps (without compensation)	3680 W
High-pressure mercury lamps (parallel compensation)	3680 W, 200 µF
Incandescent lamps	3680 W
Number of units on DIN rail	4
Number of relay outputs (2 independent paths, 4 relays per path)	8
Maximum switching frequency at no load	3 600 cykl/h
Maximum switching frequency at rated load, AC1	600 cykl/h
Maximum number of group addresses	256
Maximum number of associations	256
Maximum number of communication objects	133
Maximum switching power, AC1	4 000 VA
Maximum time of response to telegram	< 20 ms
Maximum tightening torque	0.5 N·m
Maximum power consumption	5 W
Maximum surge current	168 A 20 ms; 800 A 200 µs
Maximum cross-section of wire	2.5 mm <sup>2</sup>
Weight	240 g
Wetting current	10 mA
KNX bus voltage	20...30 V DC
Supply voltage	230
Contact rating	16 A
Capacitive load	16 A, max. 200 µF
Resistive load	3680 W
Current draw from KNX bus	< 10 mA
IP code	IP20
Enclosure dimensions	70 x 92 x 60 mm
Temperature range for storage / transport	-25°C...+70°C
Operating temperature range	0°C...+45°C
Rated load current (power), AC1	16 A / 250 V AC
Rated load current (power), AC15	3 A / 120 V 1,5 A / 240 V (B300)
Rated load current (power), AC3	750 W (silnik jednofazowy)
Rated load current (power), DC1	16 A / 24 V DC
Rated load current (power), DC13	0,22 A / 120 V 0,1 A / 250 V (R300)