

# KNX-SA41

## UNIVERSAL SWITCH ACTUATOR

The KNX-SA41 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-SA41 module has 4 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**

Enclosure dimensions	70 x 92 x 60 mm
Operating temperature range	0°C...+45°C
Supply voltage	230 V AC
Weight	192 g
IP code	IP20
Maximum power consumption	5 W
Maximum tightening torque	0.5 Nm
Temperature range for storage / transport	-25°C...+70°C
Number of units on DIN rail	4
Certificate of conformity	nr 324/15896/19
Maximum cross-section of wire	2.5 mm <sup>2</sup>
KNX bus voltage	20...30 V DC
Current draw from KNX bus	< 10 mA
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)
Wetting current	10 mA
Contact rating	16 A
Maximum switching power, AC1	4 000 VA
Maximum switching frequency at rated load, AC1	600 cykl/h
Maximum switching frequency at no load	3 600 cykl/h
Electrical endurance (number of switching cycles), AC1 (600 cycles/h)	> 10 <sup>5</sup> 16 A / 250 V AC
Electrical endurance (number of switching cycles), DC1 (600 cycles/h)	> 10 <sup>5</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>
Maximum time of response to telegram	< 20 ms
Maximum number of communication objects	69
Maximum number of group addresses	256
Maximum number of associations	256
Resistive load	3680 W
Capacitive load	16 A, max. 200 µF
Incandescent lamps	3680 W
HV 230V halogen lamps	3680 W
LV halogen lamps (conventional transformer)	2000 VA
LV halogen lamps (electronic transformer)	2500 W
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
High-pressure mercury lamps (without compensation)	3680 W
High-pressure mercury lamps (parallel compensation)	3680 W, 200 µF
Maximum surge current	168 A 20 ms; 800 A 200 µs
Number of relay outputs (4 independent paths, 1 relay per path)	4