





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
- suited for mounting on DIN rail (35 mm)

Specifications

Power supply

	Supply voltage
	Maximum power consumption
20	KNX bus voltage
<	Current consumption from KNX bus
	Number of relay outputs
	4 independent circuits with 1 relay per circuit
	Relays
	Rated load (capacity):
16 A / 2	AC1
3 A / 120 V 1.5 A / 240 V	AC15
750 W (single-phase	AC3
16 A / 7	DC1
	DC13
	Minimum switching current
	Maximum inrush current
	Rated current
4	Maximum breaking capacity in AC1 category
	Maximum operating frequency:
600 cycl	at rated load in AC1 category
	no load
	Electrical life (number of cycles):
>10 ⁵ 16 A / 2	resistive AC1, 600 cycles/hour
>10 ⁵ 16 A / 7	resistive DC1, 600 cycles/hour
>2	AC3, I = 3.5 A

at incandescent lamp load, 1000 W $> 0.9 \times 10^5$

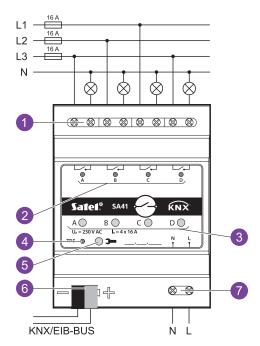




Maximum wire cross-section	2.5 mm ²
Maximum tightening torque	
KNX parameters	
Maximum time of reaction to telegram	
Maximum number of communication objects	·
Maximum number of group addresses	
Maximum number of associations	
Mechanical parameters	
Operating temperature range	0 °C+45 °C
Storage/transport temperature range	-25 °C+70 °C
IP code	IP20
Number of units on DIN rail	4
Enclosure dimensions	
Weight	192 g
Maximum output loads	
Resistive load	3680 W
Capacitive load	
Maximum output loads for lighting	
Incandescent lamps	1000 W
HV 230V halogen lamps	3680 W
LV halogen lamps:	
inductive transformer	2000 VA
electronic transformer	2500 W
Fluorescent lamps:	
non compensated	3680 W
parallel compensated	2500 W, 200 μF
series compensated	3680 W, 200 μF
Compact fluorescent lamp (CFL):	
non compensated	
parallel compensated	2500 W, 200 μF
High-pressure mercury lamps:	
non compensated	



Device appearance and connection diagram



- 1. Load circuit terminals for connecting loads (2 terminals per channel).
- 2. Green LEDs indicating the channel state. One channel state LED is assigned to each channel:
 - » ON channel enabled,
 - » OFF channel disabled.
- 3. Buttons to manually change the channel state. One ON/OFF button is assigned to each channel.
- 4. Red LED is ON when physical address is being set using the ETS program. Setting the address may be activated remotely from the ETS program or manually, using the button on the enclosure.
- 5. Programming button (used when setting the physical address).
- 6. Terminal to connect KNX bus.
- 7. Mains supply terminals.

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