

SA12 Switching Actuator 12fold 6fold 16A, 6fold 8A 230V AC1 Art.Nr. E022-0027-00

The 12fold switching actuator SA12 is a compact device in only 105mm wide housing for mounting on 35mm DIN rail in standard electrical switchboards. In combination with ETS4 and the

application „switching, universal“, the actuator is able to switch up to 12 independent loads configurable by many useful functions.

The different settings in the application make it possible to use logical links, on/off delays, staircase function with off warning and many other functions. It is also possible to define the switching position in case of bus failure and bus recovery. The power supply of the device is given by the KNX connection.

In addition to the 12 switching outputs the device software contains 5 independent logical blocks with 4 inputs each. These inputs can be linked by the common logical links.

To realize time delay function the software contains also 5 independent time elements. KNX telegrams can be sent delayed or transferred to another group address. Thereby it is possible to realize simple control function without additional and expensive hardware.

The connection to the Bus (EIB, KNX TP1) is done by standard connection block. The load is connected via tough screw connectors.

The outputs A1 to A6 are able to switch loads up to 16A AC1. The load can be switched manually via switching position levers also in case of bus failure. The outputs A7 to A12 can switch currents up to 8A AC1.

Technical data

power supply / control / programming	EIB, KNX TP1	29VDC, Bus connection block
control and display elements	LED red and push button	programming of physical address
	6x position levers (relay)	position display and manual switching
outputs (load)	12 potential free contacts (12 relay contacts)	2 screw connector each min. Ø 0,1mm max. 2x 2,5mm ² solid 230V AC 400V AC
	nominal voltage	
	nominal current	
	A1 .. A6 (1 contact each)	max. 16A AC1, 10A AC3



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BISCHOFF

Elektronik GmbH

A7 .. A12 (1 contact each) max. 8A AC1, 3A AC3

Switching repeat time, continuous

1 contact (1 relay)

max. 1 sec

12 contacts (12 relays)

max. 5 sec

contact life time

mechanical

1 000 000 operations

contact life time

electrical at load (A1 .. A6)

100 000 operations

70 μ F (only A1 .. A6)

light bulb

1250W

fluorescent lamp, not compensated

1200W

fluorescent lamp, parallel compensation

650W (70 μ F)

metal halide lamp 230V AC

1200W

metal halide lamp with transformer

500VA

mercury vapor lamp or sodium vapor lamp

1000W

uncompensated

mercury vapor lamp or sodium vapor lamp

1000W (70 μ F)

compensated

Dulux lamp uncompensated

800W

Dulux lamp parallel compensated

560W (70 μ F)

contact life time

electrical at load (A1 .. A6)

30 000 operations

140 μ F (only A1 .. A6)

light bulb

2500W

fluorescent lamp, not compensated

2500W

fluorescent lamp, parallel compensation

1300W (140 μ F)

metal halide lamp 230V AC

2500W

metal halide lamp with transformer

500VA

mercury vapor lamp or sodium vapor lamp

2000W

uncompensated

mercury vapor lamp or sodium vapor lamp

2000W (140 μ F)

compensated

Dulux lamp uncompensated

1600W

Dulux lamp parallel compensated

1100W (140 μ F)

contact life time

electrical at load (A7..A12)

100 000 operations

AC1

8A, 230VAC

AC3 (cos ϕ =0.4)

3A, 230VAC

maximum switching power

2500VA, 300W

	maximum switching voltage	250V AC, 125V DC
	minimum load	10mA, 5V DC
protection class	IP20, EN60 529	
enviroment temperature	working	-5 .. 45°C
	storage	-25 .. 55°C
	transport	-25 .. 70°C
mounting	DIN rail 35mm, DIN EN50 022	
dimensions	105 x 90 x 60 (W x H x D)	
weight	0,4kg	
approbation / zertification	KNX zertification	EN 50090-2-2
	CE label	EMC- and low voltage directive
software / application	switching, universal	time/logic/scene/preset
		/security/heating
		logical function
		time function

Connection diagram

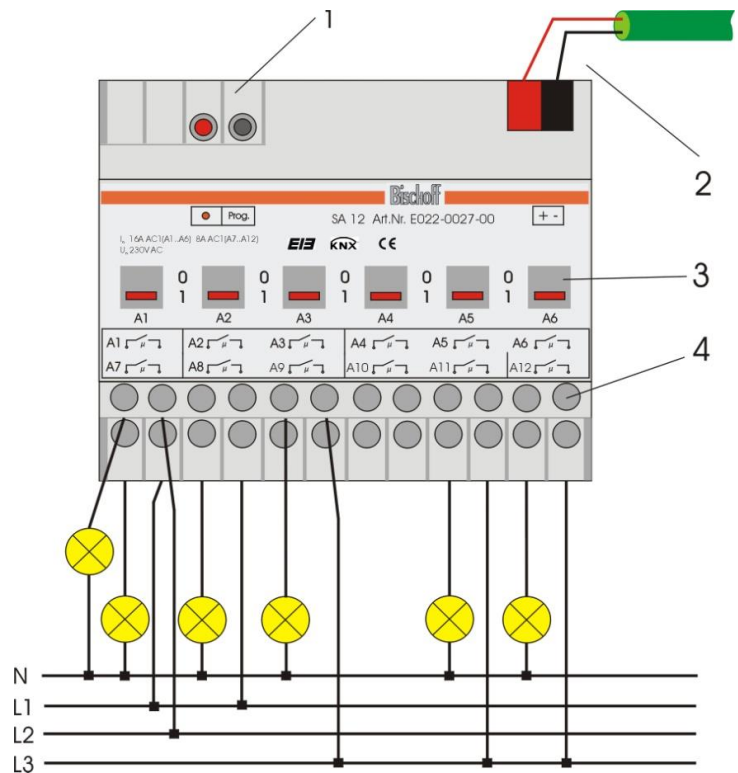
1. Push button and LED for physical address programming

2. Bus connection (+-) KNX TP1

3. Switching / display lever and manual operation of outputs A1 .. A6

4. Screw connectors to connect loads at outputs A1 .. A12

Example connection displayed.





Application description

Selection in the ETS4:

Manufacturer	„Bischoff Elektronik“
Product family	„output“
Product type	„switching actuator 12fold“
Program name	„switching, universal“

In the ETS4 it is possible to configure each output with individual parameters and functions. Some functions/parameters are visible only when appropriate selection is done.

More detailed description is available in the device online help (ETS4 - info)

actual product database and additional information can be found at

www.Bischoff-Elektronik.de

or via email to

info@bischoff-elektronik.de

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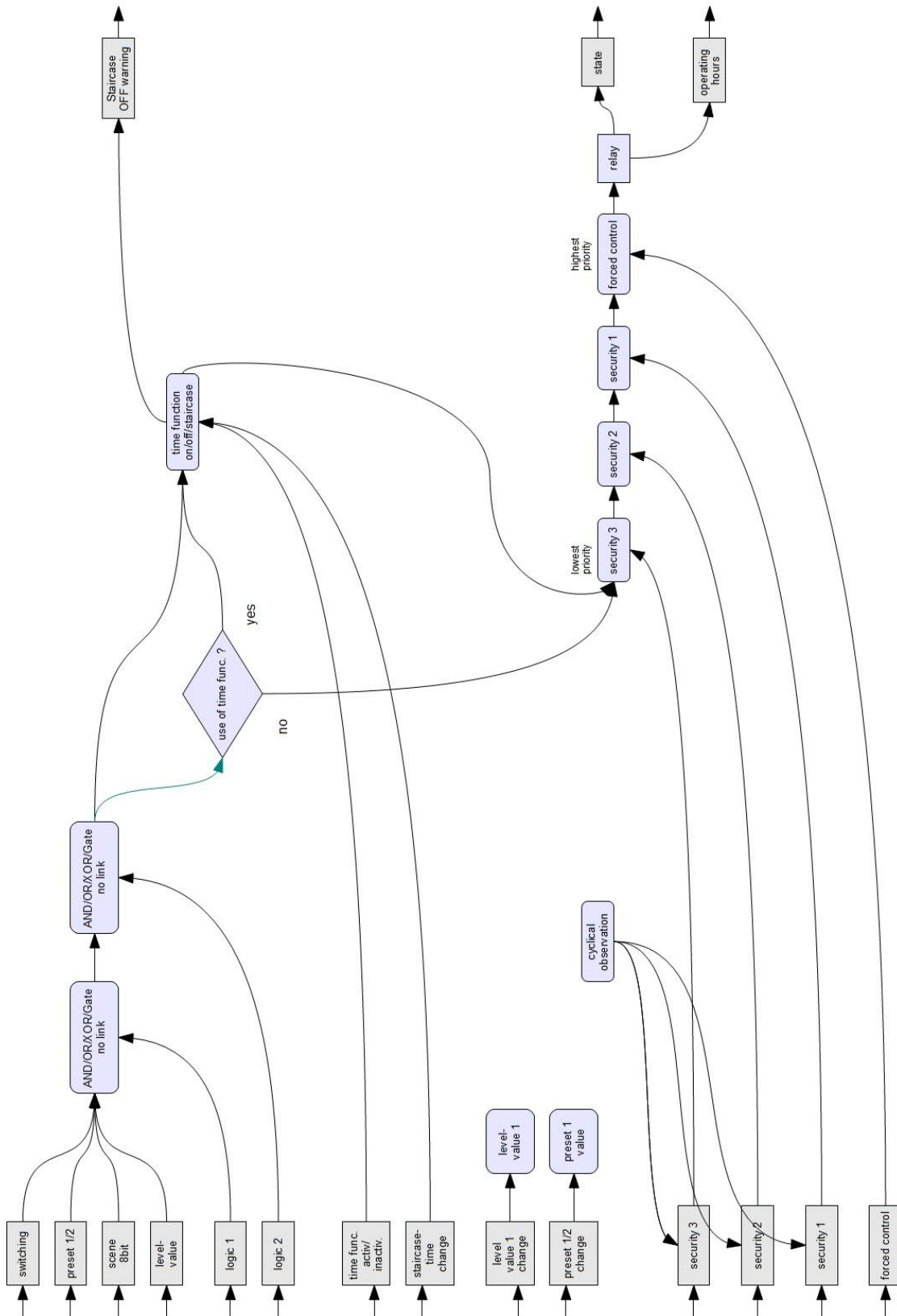
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Function diagram switching



Function diagram heating

