

The switch actuators can be used to control the switch loads, such as:

- ◆ Lighting
- ◆ Heating control
- ◆ Signal devices

They are the modular installation devices, with 4, 8 and 12 outputs for selection, using EIB BUS connection terminals to connect to the system. The switch actuators are connected to the AC power supply directly instead of an extra voltage supply.

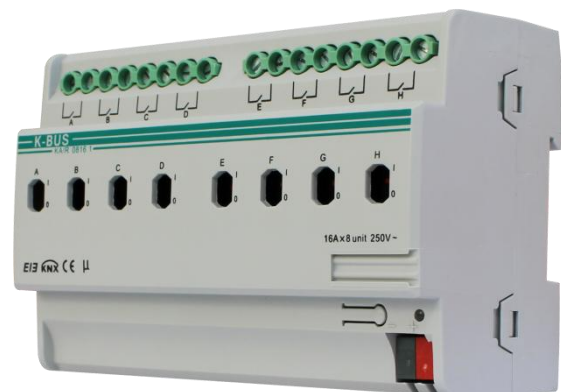
It is able to switch from 4 to 12 independent electrical AC loads or three-phase loads by the switch actuators with maximum output of 16A per output and manual switch, as well as visible switching status.

There are some following programming functions for each output:

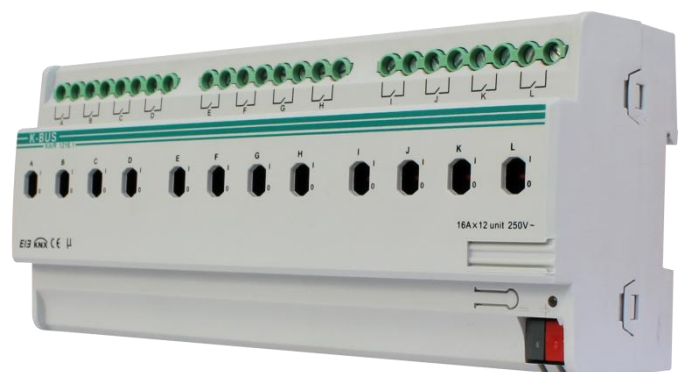
- ◆ Time function: on/off delay
- ◆ Staircase function with the warning and adjustable staircase lighting time
- ◆ Scene, preset control: 8bit/1bit
- ◆ Logic operation: AND, OR, XOR, gate function
- ◆ Status response
- ◆ Forced operation and safe function
- ◆ Threshold function setup
- ◆ Control of electro thermal valve function
- ◆ Selection of preferred status after bus voltage failure and recovery



KA/R 0416.1



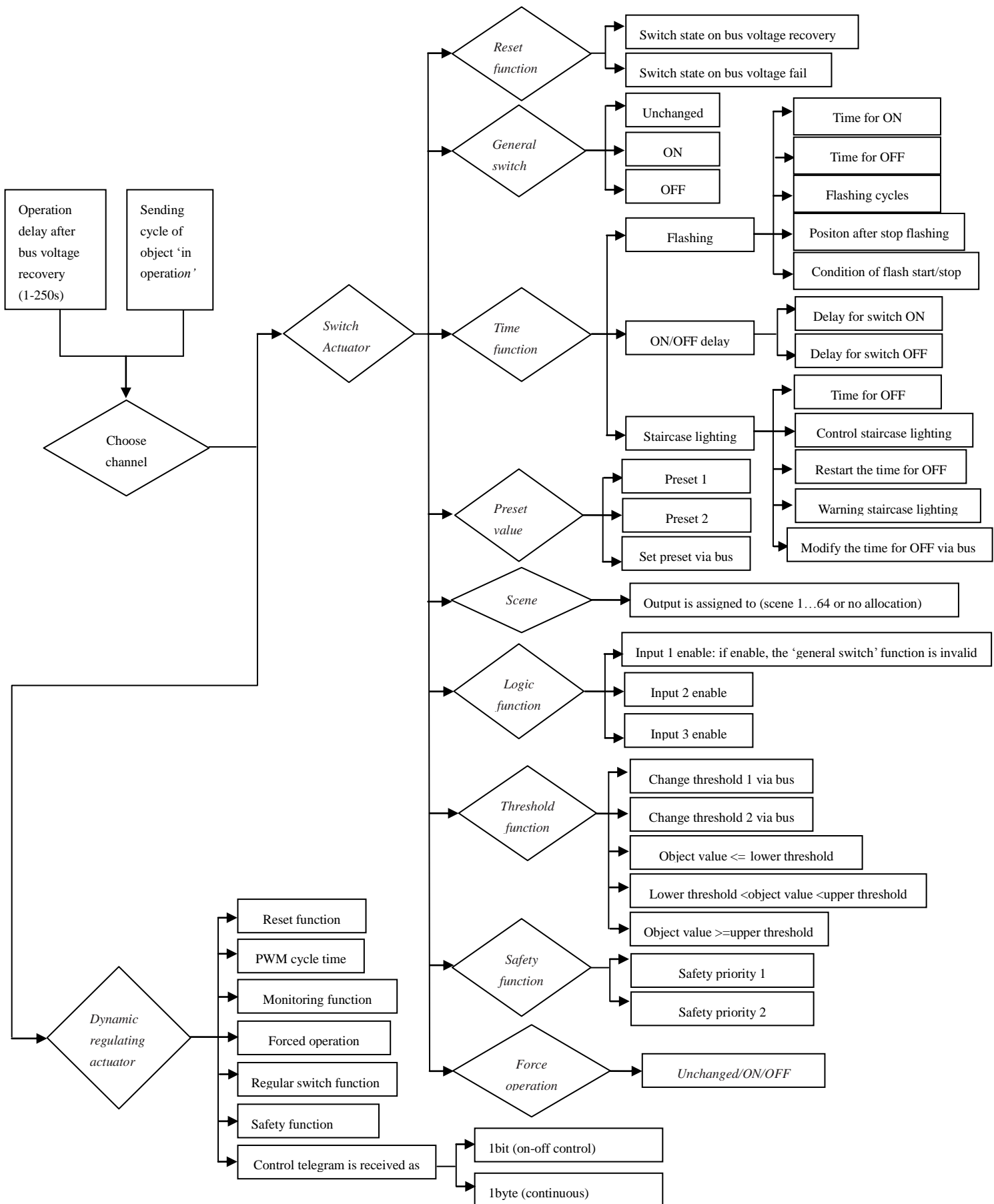
KA/R 0816.1



KA/R 1216.1

Function Overview

K-BUS®



Power supply	-Operation voltage	21~30 V DC, via EIB bus		
	-Current consumption EIB/KNX	< 12 mA		
	-Power consumption EIB/KNX	Max. 360 mW		
Output nominal values	-Type KA/R	0416.1	0816.1	1216.1
	-number of contacts	4	8	12
	-U _n rated voltage	250V AC(50~60Hz)		
	-I _n rated current	16A	16A	16A
	-Max. switching current	20A/250V AC		
	-Power loss per device at max. load	2W	4W	8W
Output life expectancy	-Mechanical endurance	>10 ⁶		
	-Electrical endurance	>10 ⁴		
Output switching times	-Operation period per output	55ms		
	-Delay times after switching on	30ms		
	-Delay times after switching off	25ms		
Connections	-EIB/KNX	Bus connection terminal (0.8mmΦ)		
	-Load output connection terminal	Screw terminal		
Operation/display	-Red Led and push button	assigning the physical address		
	-Green Led flashing	the application layer works normally		
	- Indication of the contact position	close means the output is on open means the output is off		
Housing	-IP20	to EN60529		
Safety class	-II	to EN61140		
Temperature range	-Operation	-5 °C ~+ 45 °C		
	-Storage	-25 °C~+ 55 °C		
	-Transport	-25 °C ~+ 70 °C		
Ambient condition	- Humidity	<93%, except dewing		
Design	35mm Din rail, modular installation			
	-Dimension (L×W×H)mm	KA/R 0416.1: 90×71.5×60		

		KA/R 0816.1: 90×143×60
		KA/R 1216.1: 90×214.5×60
Weight	-In kg	KA/R 0416.1: 0.3
		KA/R 0816.1: 0.5
		KA/R 1216.1: 0.7

Electrical endurance

load	100,000 cycles	30,000 cycles
Incandescent lamp	1,250 W	2,500 W
Fluorescent lamp, not compensated	1,200 W	2,500 W
Fluorescent lamp, Parallel compensated	650 W/70 μF	1,300 W/140 μF
Fluorescent lamp, duo-combination	2×1,200 W	2×2,500 W
Halogen lamp (230 VAC)	1,200 W	2,500 W
Low-voltage halogen lamp with transformer	500 VA	500 VA
Mercury arc/sodium discharge lamp not compensated	1,000 W	2,000 W
Mercury arc/sodium discharge lamp parallel compensated	1,000 W/70 μF	2,000 W/140 μF
Dulux lamp, not compensated	800 W	1,600 W
Dulux lamp, parallel compensated	560 W/70 μF	1,100 W/140 μF

Note: The above load is only for single lamps. In the case of several lamps in parallel, the load will be reduced, although the power is unchanged, but the instantaneous impact of current will increase, and easy to make the relay contacts melted. In normal use, the maximum output current is preferably less than 10A, and inductive load and capacitive load will be lower.