



*Data sheet*

# KNX-BSA12H

Blind/shutter actuator



## KNX-BSA12H - blind/shutter actuator

KNX-BSA12H is a KNX blind/shutter actuator that allows you to control the movement of sun protection products such as horizontal (Venetian) blinds, roller shutters and awnings. It also enables control of the movement of electrically-operated windows. The KNX-BSA12H module is designed to control devices having the 230 V AC motor.

The module has 2 physical outputs with two corresponding logic channels. Each channel allows control of one selected type of blind/shutter or window.

### Features

- communication with the KNX bus via integrated bus connector
- feedback information about the state of module and individual channels
- selectable type of blind/shutter for each channel
- automatic detection of blind/shutter travel time and slat adjustment time
- weather alarms (rain, wind, frost)
- position forcing function
- ability to call scenes for each channel by using 1- and 8-bit commands
- detection of blind/shutter errors (no power, incorrect position, mechanical jam, motor overheating)
- manual control of blind/shutter travel by using buttons on the enclosure
- LEDs to indicate status of each channel / blind/shutter
- module configuration using ETS program
- suitable for mounting on DIN rail (35 mm)

### Specifications

#### Power supply

|  |              |
|--|--------------|
| Supply voltage (KNX bus) .....         | 20...30 V DC |
| Current consumption from KNX bus ..... | < 20 mA      |

#### Load circuit

|                           |          |
|---------------------------|----------|
| $U_n$ rated voltage ..... | 230 V AC |
| $I_n$ rated current ..... | 6 A      |

#### Connections

|                                  |                     |
|----------------------------------|---------------------|
| Maximum wire cross-section ..... | 2.5 mm <sup>2</sup> |
| Maximum tightening torque .....  | 0.5 Nm              |

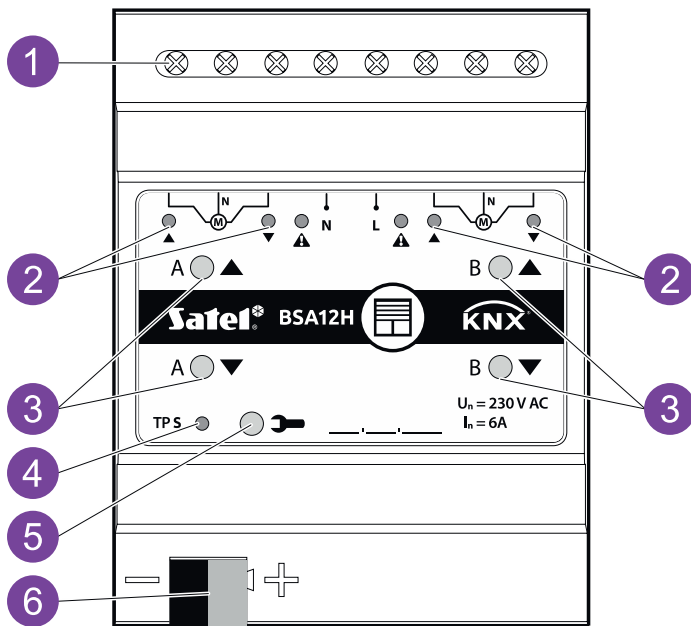
#### KNX parameters


|   |         |
|---|---------|
| Maximum time of reaction to telegram .....    | < 20 ms |
| Maximum number of communication objects ..... | 45      |
| Maximum number of group addresses .....       | 256     |
| Maximum number of associations .....          | 256     |

#### Other parameters

|   |                 |
|---|-----------------|
| Operating temperature range .....         | 0 °C...+45 °C   |
| Storage/transport temperature range ..... | -25 °C...+70 °C |
| IPcode .....                              | IP20            |
| Number of units on DIN rail .....         | 4               |
| Enclosure dimensions .....                | 70 x 92 x 60 mm |
| Weight .....                              | 188 g           |

## Device appearance



1. Connecting terminals for blind/shutter motors and power supply.
2. LEDs indicating state of blinds/shutters / channels and errors.
3. Buttons for manual control of blinds/shutters / channels.
4. Red LED – ON during physical address assignment via the ETS program and flashes when the service mode is active. Address assignment can be activated remotely from the ETS program or manually by using the  button on the enclosure.
5. Programming button (used for physical address assignment). The button can also be used to start the service mode in the module (see "Service mode").
6. Terminal to connect KNX bus.

## Connection diagram

