

Sales information

**ABB i-bus® EIB / KNX**

**Switching with Feedback  
The new Switching Actuators**

Intelligent Installation Systems



**ABB**



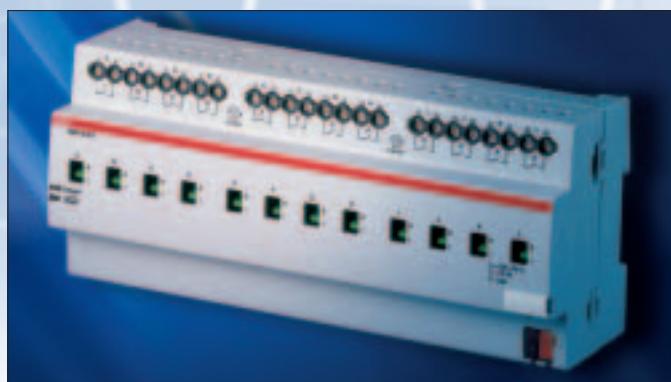
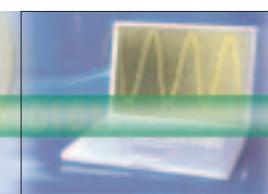
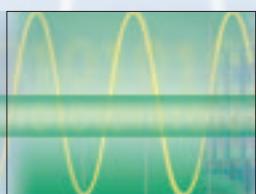
## ABB i-bus® Switching Actuators:



**It is hard to imagine modern building installations without EIB / KNX building system technology. Whether in office buildings, industrial buildings, hotels, hospitals or private homes: Modern building system technology offers greater safety, efficiency, convenience and flexibility.**

**Now current detection leaves the door open for even greater intelligence in intelligent installation systems.**

Switching Actuators are used in any EIB system. They perform actions and ensure correct execution of sensor commands – such as switching a lighting circuit.



The new ABB STOTZ-KONTAKT products represent a whole new generation of Switching Actuators. For the first time a current detection feature has been integrated into the 16 A and 20 A line (2, 4 and 8 channels) – with significant effects on the safety and economy of all buildings.



## Switching with Feedback

**Detection means better monitoring and better controlling...**

Load current detection starting at 200 mA allows for a range of specific functions in daily use of the installed ABB i-bus®:

- **A significant failure of any equipment is registered immediately. This also applies to detection of circuit breaks**
- **Current thresholds make operating states visible**
- **Continuous current monitoring allows preventive detection of failures/breakdowns**
- **In combination with a counter, operating hours can be recorded in real time and actuating cycles can be recorded**
- **Maintenance and repair work can be predicted and therefore scheduled in advance**



**...allowing you to act and react more efficiently**





## Wide Range of Functions: A Single common Application with ...



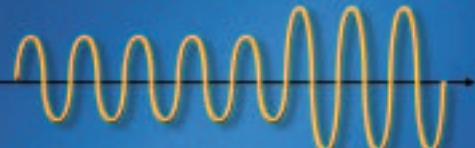
With a single application program the new generation of Switching Actuators offers an extraordinary range of functions: Current detection, current threshold setting, time functions, switch-on/off delay, staircase lighting automation, scenes/presets, logic functions (AND, OR, XOR) as well as status feedback signals – it's all possible with the new range of products.



*Continuous monitoring*



*Temporary increase*



*Temporary drop*



*Interruption*



*Switching operations*



### Further functions

Alongside all these features the devices also offer further functions:

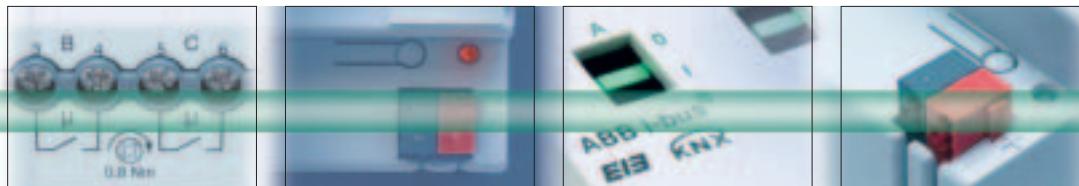
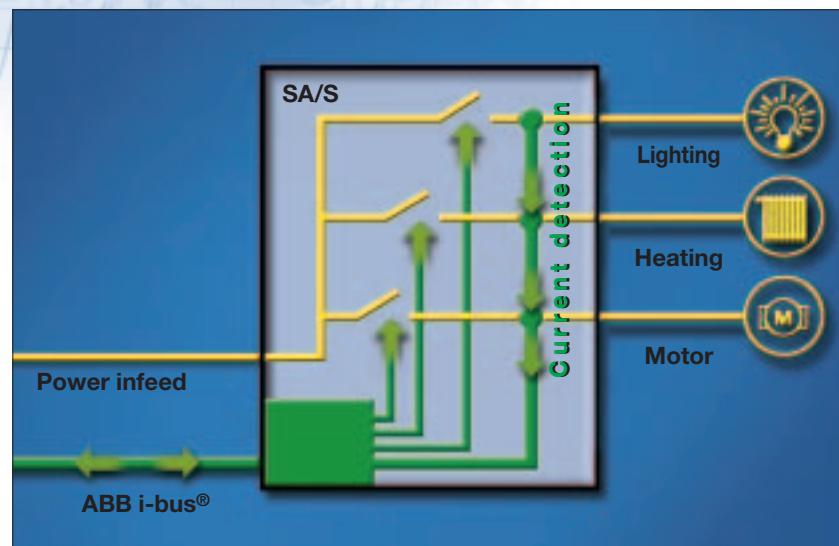
- **Forced operation and safety functions**
- **Reaction to threshold values (underrange and overrange)**
- **Control of electrothermal valve actuators (continuous control)**
- **Control of air conditioning devices (fan coil units)**
- **Selection of the preferred contact position in the event of bus voltage failure and recovery**



## ... comprehensive Functionality

### A complete product range...

The new product range offers components from 2 to 12 outputs and from 6 A to 20 A. The devices are connected with the EIB / KNX and do not need any additional auxiliary power supply. Each output in the 10 – 20 A range has a manual operation possibility with switch position display. The contact rating in the product range has been increased. The actuators now have AC3, AX, C-load (200  $\mu$ F) performance.



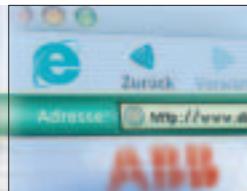
### ...with simplified installation

The use of a 6 mm terminal and a Combi-Head-Screw make connecting cables with large diameters and also looping through much easier and faster.

## The innovative Device Family

**The Switching Actuators** are suitable for fitting in distribution boards or small housings for fast attachment on 35 mm DIN rails. The electrical connection is made via screw terminals.

The connection to the EIB / KNX is made using the bus connection terminal.



You can download a detailed description of how to set parameters and start-up the system at: [www.abb.de/eib](http://www.abb.de/eib)



## The new Range of Switching Actuators

Description	Type	Load Current detection	MW	Order Code	bvn. 4016779 EAN	Weight/kg
Switch actuator, 6A-AC3 4fold, MDRC	SA/S 4.6.1		2	2CDG110 036R0011	643849	0,13
Switch actuator, 6A-AC3 8fold, MDRC	SA/S 8.6.1		4	2CDG110 037R0011	644242	0,24
Switch actuator, 6A-AC3 12fold, MDRC	SA/S 12.6.1		6	2CDG110 038R0011	644235	0,30
Switch actuator, 10AX-AC1 2fold, MDRC	SA/S 2.10.1		2	2CDG110 039R0011	644228	0,15
Switch actuator, 10AX-AC1 4fold, MDRC	SA/S 4.10.1		4	2CDG110 040R0011	644211	0,25
Switch actuator, 10AX-AC1 8fold, MDRC	SA/S 8.10.1		8	2CDG110 041R0011	644204	0,46
Switch actuator, 10AX-AC1 12fold, MDRC	SA/S 12.10.1		12	2CDG110 042R0011	644198	0,65
Switch actuator, 16A-AC1 2fold, MDRC	SA/S 2.16.1		2	2CDG110 062R0011	648776	0,15
Switch actuator, 16A-AC1 4fold, MDRC	SA/S 4.16.1		4	2CDG110 063R0011	648769	0,25
Switch actuator, 16A-AC1 8fold, MDRC	SA/S 8.16.1		8	2CDG110 064R0011	648752	0,46
Switch actuator, 16AX-AC3, C-Load 2fold, w. current detection, MDRC	SA/S 2.16.5S	X	2	2CDG110 043R0011	644181	0,20
Switch actuator, 16AX-AC3, C-Load 4fold, w. current detection, MDRC	SA/S 4.16.5S	X	4	2CDG110 044R0011	643832	0,34
Switch actuator, 16AX-AC3, C-Load 8fold, w. current detection, MDRC	SA/S 8.16.5S	X	8	2CDG110 045R0011	644174	0,64
Switch actuator, 16AX-AC3, C-Load 12fold, MDRC	SA/S 12.16.5		12	2CDG110 046R0011	644167	0,80
Switch actuator, 20A-AC3, C-Load 2fold, w. current detection, MDRC	SA/S 2.20.1S	X	2	2CDG110 047R0011	644150	0,20
Switch actuator, 20A-AC3, C-Load 4fold, w. current detection, MDRC	SA/S 4.20.1S	X	4	2CDG110 048R0011	644143	0,34
Switch actuator, 20A-AC3, C-Load 8fold, w. current detection, MDRC	SA/S 8.20.1S	X	8	2CDG110 049R0011	644136	0,64
Switch actuator, 20A-AC3, C-Load 12fold, MDRC	SA/S 12.20.1		12	2CDG110 050R0011	644129	0,80





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Your EIB / KNX-Partner