ABB i-bus® KNX
Switch Actuator Module, 2-fold, 6 AX
SA/M 2.6.1, 2CDG 110 002 R0011

2CDC 071 009 F0004

The 2-fold Switch Actuator Module can be operated in any module slot of the Room Controller Basis Device. It switches two independent groups of electrical loads such as fluorescent lamps using relay contacts.
The outputs are distinguished by a high switching current.
Both the incoming supply and the internal voltage are supplied via the Room Controller Basis Device. Contact is automatically established when the modules are snapped in place.

Technical data

Supply / Incoming supply	Operating voltage	made available by the Room Controller Basis Device, contact made via contact system on base of module
	Incoming supply	0....264 V AC, contact established via contact surfaces at the front
Outputs	2 load circuits	relay outputs
	U_n rated voltage	250/440 V AC
	I_n rated current	6 AX
Switching currents per output	AC3 operation ($\cos\varphi$ = 0.45) DIN EN 60 947-4-1	6 A/230 V
	AC1 operation ($\cos\varphi$ = 0.8) DIN EN 60 947-4-1	6 A/230 V
	Fluorescent lighting load AX to EN 60 669-1	6 A/250 V (70 µF) [1]
	Minimum switching capacity	100 mA/12 V 100 mA/24 V
	DC current switching capacity (resistive load)	6 A/24 V=
Output service life	Mechanical endurance	3×10^6
	Electrical endurance to EN 60 947-4-1 AC1 (240 V/$\cos\varphi$ = 0.8)	$> 10^5$
	AC3 (240 V/$\cos\varphi$ = 0.45)	$> 3 \times 10^4$
	AC5a (240 V/$\cos\varphi$ = 0.45)	$> 3 \times 10^4$
Connections	Load circuits	2 x 3-pole, plug-in screw terminals
	Connection cross-sections	0.2…2.5 mm² stranded 0.2…4.0 mm² solid
Temperature ranges	Storage	-25 °C ... 55 °C
	Transport	-25 °C ... 70 °C
Design	Type of installation	for snapping into the Room Controller Basis Device
	Housing / colour	plastic, anthracite, halogen-free
	Housing dimensions (W x H x D)	49 mm x 42 mm x 93 mm
	Weight	0.1 kg
CE mark	In accordance with the EMC guideline and low voltage guideline	

[1] The maximum inrush-current peak (see lamp loads) may not be exceeded.
[2] Please note the maximum continuous current of 6 A!

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Device type	Application program	Maximum number of communication objects	Maximum number of group addresses	Maximum number of associations
RC/A 4.2	Room Controller modular 4f2/…*	125	254	255
RC/A 8.1	Room Controller modular 8f/…*	246	254	255
RC/A 8.2	Room Controller modular 8f2/…*	245	254	255

* … = current version number of the application program

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Note

For a detailed description of the application program see „Switch Actuator Modules for the Room Controller, SA/M, ES/M" product manual. It is available free-of-charge at *www.abb.com/knx*.

The ETS and the current version of the device application program are required for programming.

The current version of the application program is available for download on the Internet at *www.abb.com/knx*. After import it is available in the ETS under *ABB/ Room automation, Room Controller.*

The device does not support the closing function of a KNX device in the ETS. If you inhibit access to all devices of the project with a BCU code, it has no effect on this device. Data can still be read and programmed.

Important

Programming is possible only when the supply voltage is applied.
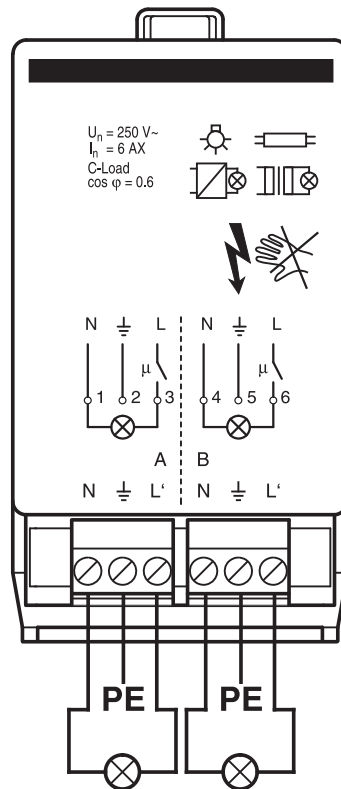

Lamp loads at 230 V AC

Lamps	Incandescent lamp load	1380 W
Fluorescent lamps T5 / T8	Uncorrected	1380 W
	Parallel compensated	1380 W
	DUO circuit	1380 W
Low-volt halogen lamps	Inductive transformer	1200 W
	Electronic transformer	1380 W
	Halogen lamps 230 V	1380 W
Dulux lamp	Uncorrected	1100 W
	Parallel compensated	1100 W
Mercury-vapour lamp	Uncorrected	1380 W
	Parallel compensated	1380 W
Switching capacity	Max. peak inrush-current I_p (150 µs)	400 A
	Max. peak inrush-current I_p (250 µs)	320 A
	Max. peak inrush-current I_p (600 µs)	200 A
Number of electronic ballasts (T5 / T8, single element) [1]	18 W (ABB EVG 1 x 18 CF)	23
	24 W (ABB EVG-T5 1 x 24 CY)	23
	36 W (ABB EVG 1 x 36 CF)	14
	58 W (ABB EVG 1 x 58 CF)	11
	80 W (Helvar EL 1 x 80 SC)	10

[1] For multiple element lamps or other types the number of electronic ballasts must be determined using the peak inrush current of the electronic ballasts.

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Circuit diagram

$U_n = 250\ V\sim$
$I_n = 6\ AX$
C-Load
$\cos \varphi = 0.6$

2CDC 072 167 F0009

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Notes