

ABB i-bus® KNX

Switch Actuator Module, 2-fold, 16 A, floating

SA/M 2.16.1, 2CDG 110 100 R0011



2CDC 071 110 S0009

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.

Important

The voltage to be switched must be applied directly to the module. The device supply is thus independent of the voltage in the Room Controller

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, connected directly of the module
Outputs	2 load circuits	relay outputs, floating
	U_n rated voltage	250/440 V AC
	I_n rated current	16 A
	Switching currents per output	
	AC3 operation ($\cos\phi = 0.45$) DIN EN 60 947-4-1	8 A/230 V
	AC1 operation ($\cos\phi = 0.8$) DIN EN 60 947-4-1	16 A/230 V
	Fluorescent lighting load AX to DIN EN 60 669-	16 A/250 V (70 μ F) ¹⁾
	Minimum switching capacity	100 mA/12 V 100 mA/24 V
	DC current switching capacity (resistive load)	16 A/24 V=
Output service life	Mechanical endurance	3×10^6
	Electrical endurance to DIN EN 60 947-4-1 AC1(240 V/ $\cos\phi = 0.8$)	$> 10^5$
	AC3 (240 V/ $\cos\phi = 0.45$)	$> 3 \times 10^4$
	AC5a (240 V/ $\cos\phi = 0.45$)	$> 3 \times 10^4$
Connections	Load circuits	2 x 3-pole screw terminals, fixed
	Connection cross-sections	0.2...2.5 mm ² stranded 0.2...4.0 mm ² 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	0.117 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.

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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

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	2300 W
Fluorescent lamps T5 / T8	Uncorrected	2300 W
	Parallel compensated	1500 W
	DUO circuit	1500 W
Low-volt halogen lamps	Inductive transformer	1200 W
	Electronic transformer	1500 W
	Halogen lamps 230 V	2300 W
Dulux lamp	Uncorrected	1100 W
	Parallel compensated	1100 W
Mercury-vapour lamp	Uncorrected	2000 W
	Parallel compensated	2000 W
Switching capacity	Max. peak inrush-current I_p (150 μ s)	400 A
	Max. peak inrush-current I_p (250 μ s)	320 A
	Max. peak inrush-current I_p (600 μ s)	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

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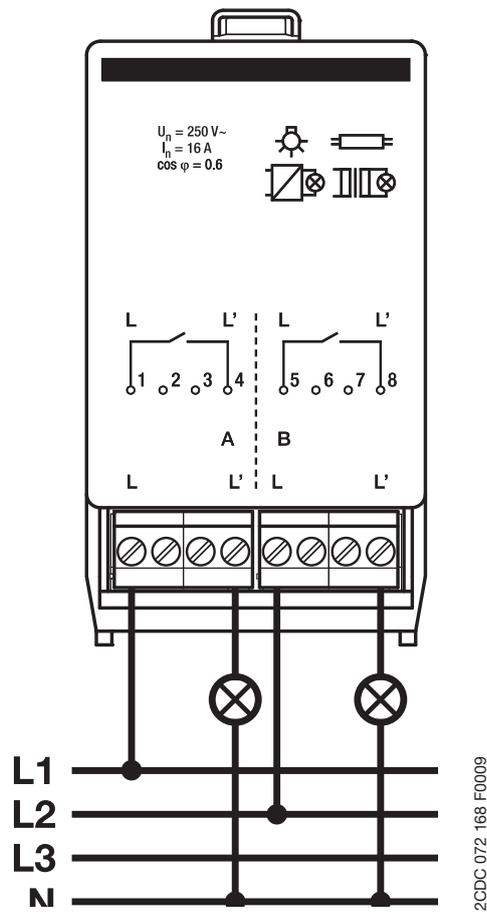


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Notes

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