

ABB i-bus® KNX

SafeKey Switching Module, SM/FM

SSM/x, 2CDG 240 0xx R0011



SSM/A

2CDC 083 001 S0011

The SafeKey Switching Module enables simple connection and evaluation of a SafeKey Wall Reader to the MT/x. This can be undertaken with and without a code keypad (WEL or WELT). The module can be used either for potential-free switching of electrical components up to 5 A at maximum 12...24 V DC/AC, e.g. electrical door openers or garage doors, or for transferring a set/unset request to the Security Terminal MT/x.

The switching procedure or the set/unset request can be initiated via the chipkey and/or via a code entry. The module is suitable for flush mounting and surface mounting, depending on the housing design. A 12 V power supply is required..

Technical data

Supply	Supply voltage	12 V DC/AC ± 1.6 V
	Current consumption	< 5 mA (typical) maximum 50 mA with relay control
Inputs	Number	2
	SafeKey Wall Reader connection	(+ / D / P / -)
	Acknowledgement input	Potential-free (floating) or max. 12 V DC Terminal C1: + Terminal C2: -
Outputs	Number	2
	Type	Monostable relay
	Output E	For set/unset request with integrated resistor combination (2.7 kOhm + 560 Ohm)
	Output F	For potential-free switching of electrical components, e.g. door openers or garage doors
	Maximum switching current	5 A
	Maximum switching voltage	12 V...24 V DC/AC
Connection terminals	Screw terminals	0.2...1.5 mm ² stranded 0.2...1.5 mm ² solid core
		Multi-core connection capacity (same cross-section) 0.2...0.34 mm ² stranded 0.2...0.50 mm ² solid core
	Tightening torque	Maximum 0.25 Nm
	Programming button	For creation of the programming key or deleting the code memory
Operating controls	Rotary potentiometer	For fine adjustment of the relay control time with the function <i>potential-free switching</i>
	DIP switch	For selection of the module functionality
Enclosure	IP 30	To EN 60 529
Safety class	II	To EN 61 140
Temperature range	Operation	-5 °C...+45 °C
	Transport	-25 °C...+70 °C
	Storage	-25 °C...+55 °C
Ambient conditions	Maximum air humidity	93 %, no condensation allowed

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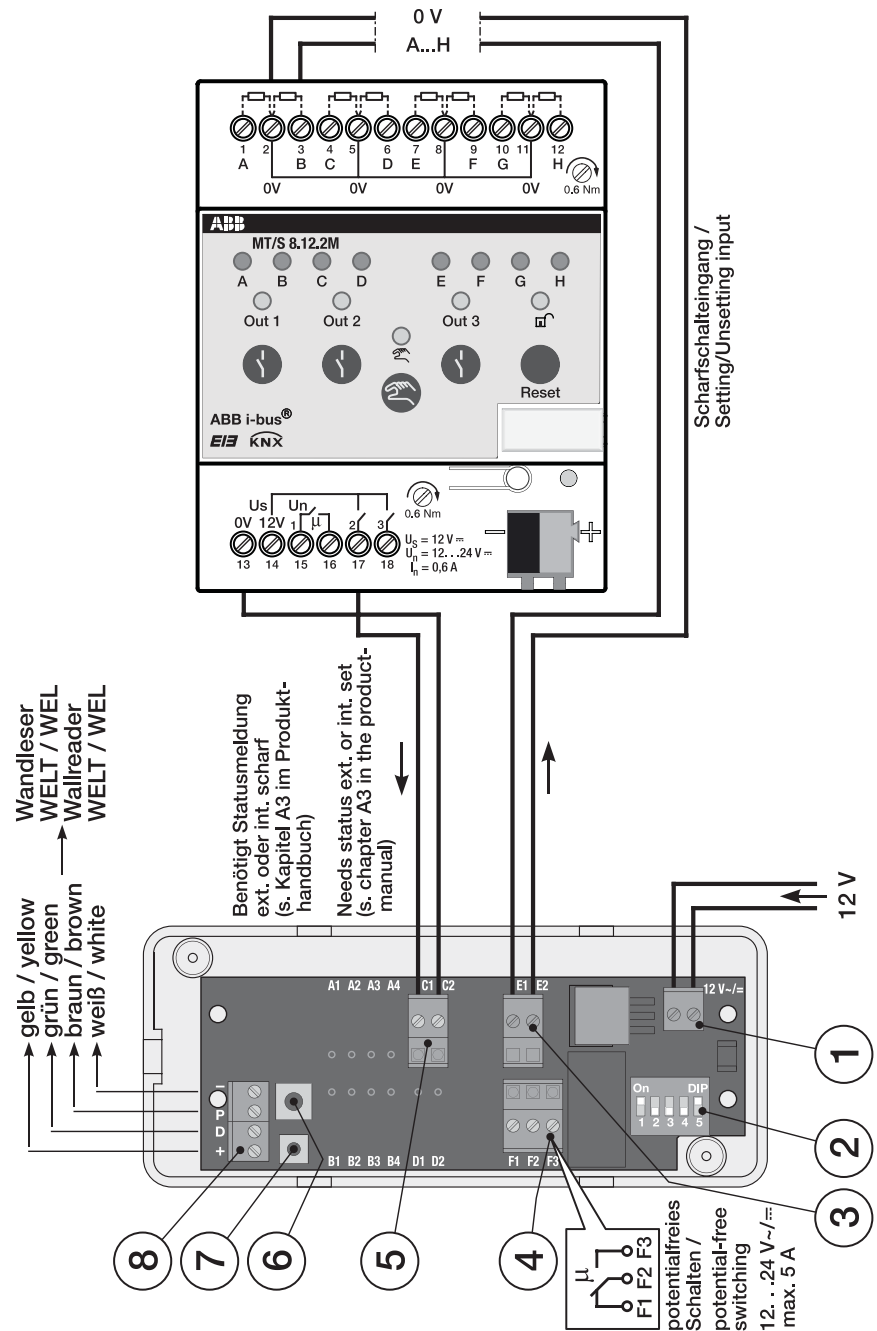
Design	PCB in enclosure (SM or FM)	Enclosure SM (50 x 114 x 26)
	Dimensions in (H x W x D)	Enclosure FM (50 x 114 x 21) Cover FM (70 x 134 x 4)
Installation	Flush mounting (SSM/U)	
	Surface mounting (SSM/A)	
Mounting position	As required	
Weight	Module with flush mounting enclosure	0.08 kg
	Module with surface mounting enclosure	0.07 kg
Housing/colour	Plastic, halogen-free, white	
CE mark	In accordance with the EMC guideline and low voltage guideline	

Note

For a detailed description of the application program see *SafeKey Switching Module SSM/A, SSM/U* product manual. It is available free-of-charge at www.abb.com/knx.

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Circuit diagram



2CDC 072 022 F0411

- 1 Power supply 12 V DC/AC
- 2 DIP switch
- 3 Output E for set/unset request
- 4 Output F for potential-free switching
- 5 Acknowledge input C
- 6 Programming button
- 7 Rotary potentiometer
- 8 SafeKey Wall Reader connection (+ / D / P / -)

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Dimension drawing

