

ABB i-bus® KNX

Blind/Shutter Actuator, 4-fold, SMI LoVo, MDRC

SJR/S 4.24.2.1, 2CDC 110 143 R0011



2CDC 071 023 S0011

The SMI LoVo Blind/Shutter Actuator SJR/S 4.24.2.1 controls four independent groups each with up to 4 SMI LoVo blind or shutter drives (24 V) for positioning blinds, shutters, awnings and other shutters/blinds via ABB i-bus® KNX.

The outputs can be directly controlled on the device using the manual push-buttons. The LEDs on the front of the device signal the status of the outputs.

The Blind/Shutter Actuator is a modular installation device for installation in the distribution board on 35 mm mounting rails. The connection to the ABB i-bus® is implemented via bus connection terminals.

Technical data

Supply	Operating voltage	230 V AC +10/-15 %, 45...65 Hz
	Bus voltage	21 ...30 V DC via KNX
	Current consumption KNX	< 12 mA
	Power consumption KNX	Maximum 250 mW
	Power consumption 230 V AC	Maximum 2 W
	Leakage loss	Maximum 1.8 W
Outputs	4 individual SMI outputs	Up to 4 SMI LoVo drives (24 V) can each be connected in parallel
	SMI control voltage	18 V DC
	SMI cable lengths	Maximum 350 m
Connections	SMI	2 screw terminals per output (I+; I-) Conductor cross-section: Stranded: 0,2...2,5 mm ² Solid: 0,2...4 mm ²
	Auxiliary voltage 230 V AC	2 screw terminals for L 2 screw terminals for N Conductor cross-section: Stranded: 0,2...2,5 mm ² Solid: 0,2...4 mm ²
	Tightening torque	Maximum 0.6 Nm
	ABB i-bus® KNX	Bus connection terminal (black/red), 0.8 mm Ø, single-core
Operating and display elements	Button/LED	For assignment of the physical address
	Buttons and LEDs Two buttons and LEDs per output	For control (UP/DOWN (long actuation) or STOP/louvre adjustment (short operation) of the output and display of the status
	Button and LED	For switchover between manual operation and operation via KNX
Enclosure	IP 20, EN 60 529	
Safety class	II, in the installed state	To EN 61 140
Insulation category	Overvoltage category	III to EN 60 664-1
	Pollution degree	2 to EN 60 664-1
KNX safety extra low voltage	SELV 24 V DC	
Temperature range	Operation	-5 °C...+45 °C
	Storage	-25 °C...+55 °C
	Transport	-25 °C...+70 °C

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Ambient conditions	Maximum air humidity	93 %, no condensation allowed
Design	Modular installation device (MDRC)	Pro M modular installation device
	Dimensions (H x W x D) in mm	90 x 72 x 64.5
	Mounting width in space units (modules at 18 mm)	4
	Mounting depth	64.5
Weight (without batteries)	Weight in kg	0.25
Installation	On 35 mm mounting rail	To EN 60 715
Mounting position	As required	
Housing/colour	Plastic housing, grey	Halogen free
Approvals	KNX to EN 50 090-1, -2	Certificate
	SMI	
CE mark	In accordance with the EMC guideline and low voltage guideline	

Device type	Application program	Maximum number of communication objects	Maximum number of group addresses	Maximum number of associations
SJR/S 4.24.2.1	Shutter/Blinds 4f SMI LoVo M/...*	134	250	250

* ... = current version number of the application program. **Please observe the software information on our homepage for this purpose.**

Note

For a detailed description of the application program see *SMI Blind/Shutter Actuators* product manual. It is available free-of-charge at www.abb.com/knx.

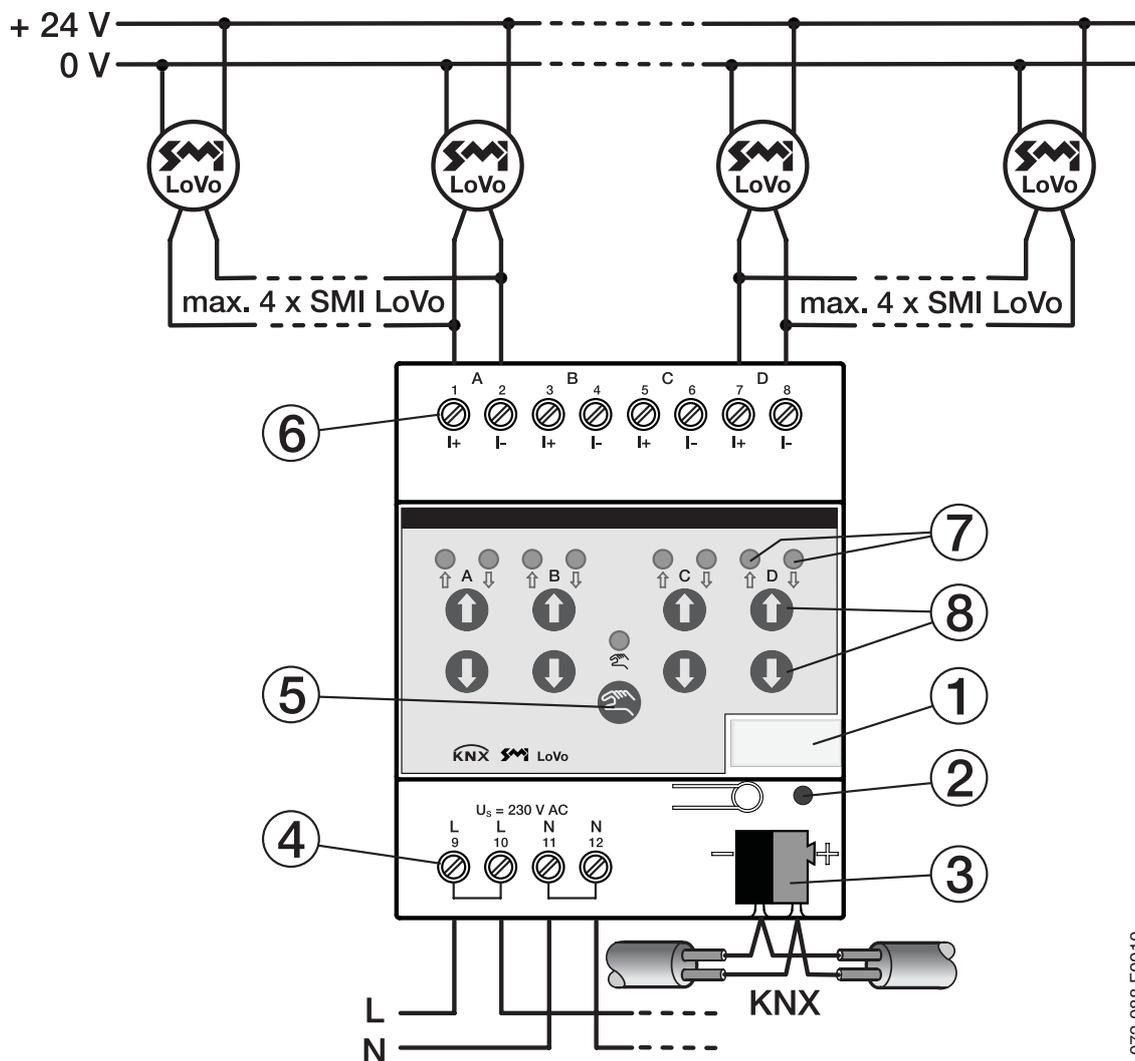
The ETS and the current version of the device application program are required for programming.

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

The device does not support the locking 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. It can still be read and programmed.

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Circuit diagram



- 1 Label carrier
- 2 Button/LED *Programming* (red)
- 3 Bus connection terminal
- 4 Auxiliary voltage 230 V AC
- 5 Button/LED *Manual operation* (yellow)
- 6 SMI LoVo connection terminals (I+; I-)
- 7 LED UP/DOWN/Position (yellow)
- 8 Buttons UP/DOWN/STOP/louvre adjustment

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Dimension drawing

