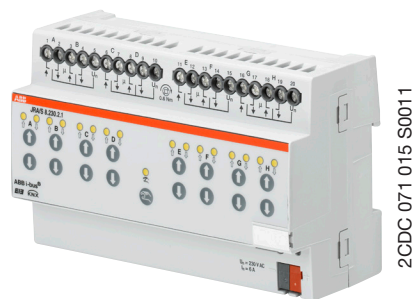


# ABB i-bus® KNX Blind/Roller Shutter Actuators with manual operation x-fold, 230 V, MDRC JRA/S x.230.2.1, 2CDG 110 12x R0011



JRA/S 8.230.2.1

2CDC 071 015 S0011

The 2-fold, 4-fold and 8-fold Blind/Roller Shutter Actuators with manual operation are used to control independent 230 V AC drives, for positioning blinds, roller shutters, awnings and other shading products via ABB i-bus® KNX. The devices are also used, for example, to control doors, windows and ventilation flaps.

The output contacts are mechanically interlocked, so that voltage cannot be applied to both contacts at the same time.

The devices do not require an auxiliary voltage.

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.

Individual outputs can be copied or exchanged to reduce the programming effort.

The Blind/Roller 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

<b>Supply</b>	Operating voltage	21...30 V DC, via KNX		
	Current consumption KNX	< 12 mA		
	Power consumption KNX	maximum 250 mW		
<b>Outputs</b>	JRA/S Type	2.230.2.1	4.230.2.1	8.230.2.1
	Number of outputs UP/DOWN	2*	4	8
		(mutually mechanically interlocked)		
		* independent outputs, each with up to 2 drives operating in parallel.		
	$U_N$ rated voltage	maximum 230 V AC, 45 ... 65 Hz		
	$I_N$ rated current	6 A		
	Maximum switching current	6 A (AC1/AC3) at 230 V AC or 6 A (AC1/AC3) at 400 V AC		
Minimum switching current	100 mA at 5 V or 10 mA at 10 V or 1 mA at 24 V			
<b>Connections</b>	Leakage loss per device at max. load	< 2 W	< 2 W	< 4 W
	Drives (terminals output A...X)	2 universal head screw terminals per output (UP/DOWN)		
	Phase L1...L3 (terminal $U_N$ )	2 or 4 universal head screw terminals single-core 0.2...6 mm <sup>2</sup> , stranded 0.2...4 mm <sup>2</sup>		
	Screw terminal conductor cross-section	Flexible with ferrules without/with plastic sleeves 0.25...4 mm <sup>2</sup>		
	Tightening torque	maximum 0.6 Nm		
	ABB i-bus® KNX	Bus connection terminal (black/red), 0.8 mm Ø, single-core		
<b>Operating and display elements</b>	Button/LED	For assignment of the physical address		
	Button  and LED	For toggling between manual operation/ operation via ABB i-bus® and displays		
	Buttons  and LEDs	For control (move UP/DOWN, slat OPEN/ CLOSE) of the output and status display		
<b>Enclosure</b>	IP 20	To EN 60 529		
<b>Safety class</b>	II, in the installed state	To EN 61 140		

# ABB i-bus® KNX

## Blind/Roller Shutter Actuators with manual operation x-fold, 230 V, MDRC

### JRA/S x.230.2.1, 2CDG 110 12x R0011

<b>Isolation category</b>	Overvoltage category	III to EN 60 664-1		
	Pollution degree	2 to EN 60 664-1		
<b>KNX safety extra low voltage</b>	SELV 24 V DC			
<b>Temperature range</b>	Operation	-20 °C...+45 °C		
	Storage	-25 °C...+55 °C		
	Transport	-25 °C...+70 °C		
<b>Ambient conditions</b>	Maximum air humidity	93 %, no condensation allowed		
<b>Design</b>	Modular installation device (MDRC)	Modular installation device, Pro M		
	Dimensions (H x W x D) in mm; JRA/S Type	2.230.2.1	4.230.2.1	8.230.2.1
	– Height	90	90	90
	– Width	72	72	144
	– Depth	64.5	64.5	64.5
	Mounting width in space units (modules at 18 mm)	4	4	8
	Mounting depth	64.5	64.5	64.5
<b>Weight without packaging</b>	JRA/S Type	2.230.2.1	4.230.2.1	8.230.2.1
	Weight in kg	0.2	0.25	0.45
<b>Installation</b>	On 35 mm mounting rail	To EN 60 715		
<b>Mounting position</b>	As required			
<b>Housing/colour</b>	Plastic housing, grey	Halogen free		
<b>Approvals</b>	KNX to EN 50 090-1, -2	Certification		
<b>CE mark</b>	In accordance with the EMC guideline and low voltage guideline			

Device type	Application	Maximum number of communication objects	Maximum number of group addresses	Maximum number of associations
JRA/S 2.230.2.1	Blind/Roller Shutter 2f 230V M/...* 69		255	255
JRA/S 4.230.2.1	Blind/Roller Shutter 4f 230V M/...* 129		255	255
JRA/S 8.230.2.1	Blind/Roller Shutter 8f 230V M/...* 249		255	255

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

#### Note

For a detailed description of the application see “Blind/Roller Shutter Actuators JRA/S” product manual. It is available free-of-charge at [www.abb.com/knx](http://www.abb.com/knx).

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

The current version of the application is available for download on the internet at [www.abb.com/knx](http://www.abb.com/knx). After import in the ETS, it is available in the ETS under *ABB/Blind/Switch*.

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. Reading out data and programming is still possible.

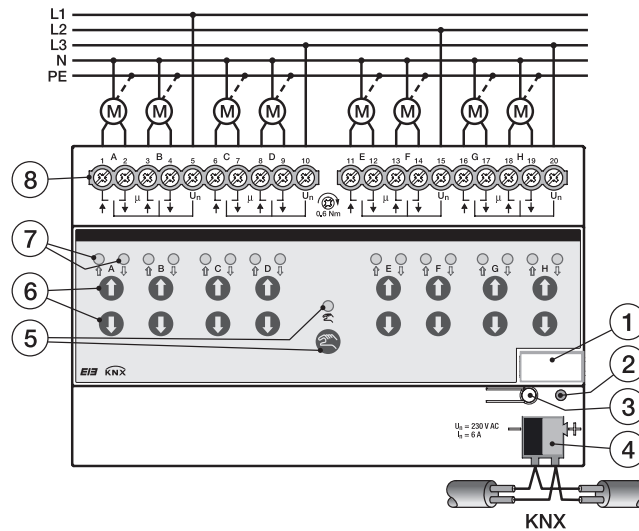
#### Important

Electronic drives with soft start or soft stop are not suitable for the control via JRA/S.

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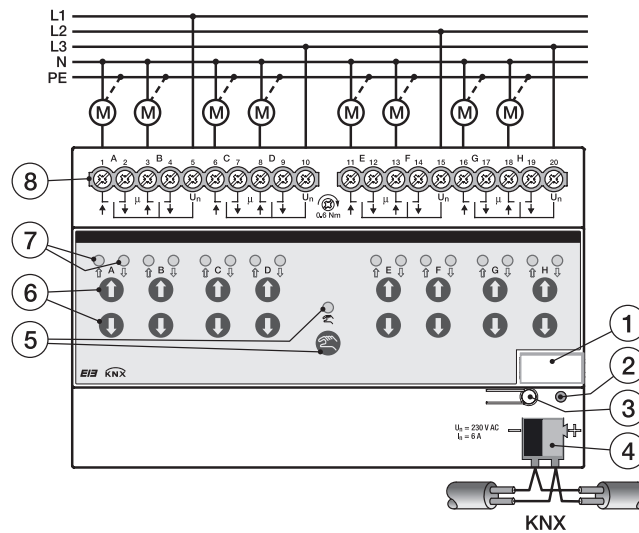
Connection schematics JRA/S x.230.2.1

## Connection to the blind and roller shutter drives



2CDC 072 048 F0010

## Connection to ventilation flaps

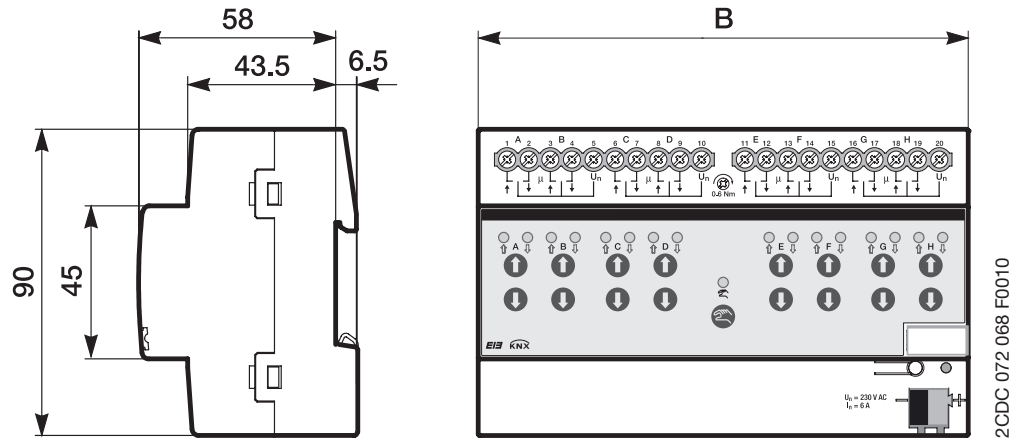


2CDC 072 046 F0010

- 1 Label carrier
- 2 LED ●
- 3 Button
- 4 Bus connection terminal ABB i-bus® KNX
- 5 Button and LED
- 6 Button (2 per output)
- 7 LEDs (2 per output, yellow)
- 8 Screw terminals (UP/DOWN, Phase L)

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Dimension drawing JRA/S x.230.2.1



2CDC 072 068 F0010

	JRA/S 2.230.2.1	JRA/S 4.230.2.1	JRA/S 8.230.2.1
B	72	72	144