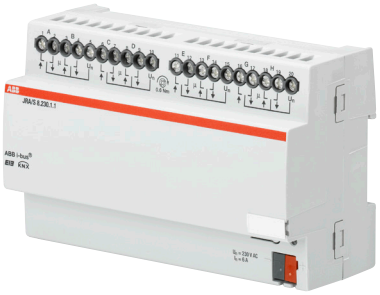
ABB i-bus® KNX

Blind/Roller Shutter Actuators x-fold, 230 V, MDRC

JRA/S x.230.1.1, 2CDG 110 1xx R0011



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JRA/S 8.230.1.1

The 2-fold, 4-fold and 8-fold Blind/ Roller Shutter Actuators 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.

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

Supply	Operating voltage	21…30 V DC, via KNX
	Current consumption KNX	< 12 mA
	Power consumption KNX	maximum 250 mW
Outputs	JRA/S Type Number of outputs UP/DOWN	2.230.1.1 4.230.1.1 8.230.1.1 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
	Leakage loss per device at max. load	< 2 W < 2 W < 4 W
Connections	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 mm², stranded 0.2…4 mm²
	Screw terminal conductor cross-section	Flexible with ferrules without/with plastic sleeves 0.25…4 mm²
	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
Enclosure	IP 20	To EN 60 529
Safety class	II, in the installed state	To EN 61 140
Isolation 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	-20 °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)	Modular installation device, Pro *M*		
	Dimensions (H x W x D) in mm; JRA/S Type – Height – Width – Depth	2.230.1.1 90 72 64.5	4.230.1.1 90 72 64.5	8.230.1.1 90 144 64.5
	Mounting width in space units (modules at 18 mm)	4	4	8
	Mounting depth	64.5	64.5	64.5
Weight without packaging	JRA/S Type Weight in kg	2.230.1.1 0.2	4.230.1.1 0.25	8.230.1.1 0.45
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	Certification		
CE mark	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 2.230.1.1	Blind/Roller Shutter 2f 230V/…*	67	255	255
JRA/S 4.230.1.1	Blind/Roller Shutter 4f 230V/…*	127	255	255
JRA/S 8.230.1.1	Blind/Roller Shutter 8f 230V/…*	247	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*.

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*. 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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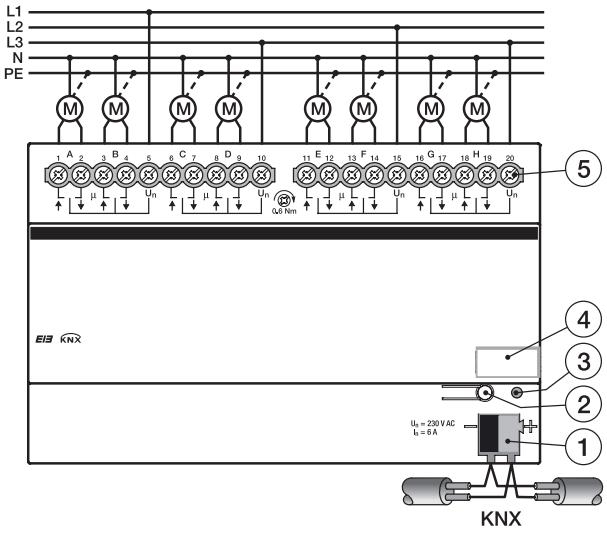
Connection schematics JRA/S x.230.1.1

Connection to the blind and roller shutter drives



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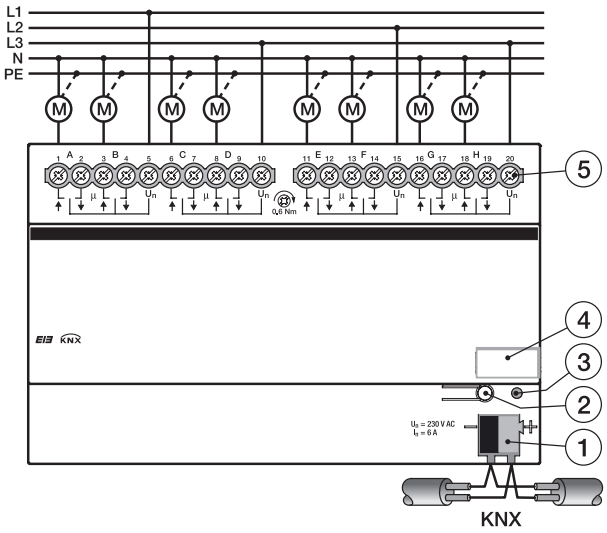
Connection to ventilation flaps



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1 Bus connection terminal ABB i-bus® KNX
2 Button
3 LED
4 Label carrier
5 Screw terminal

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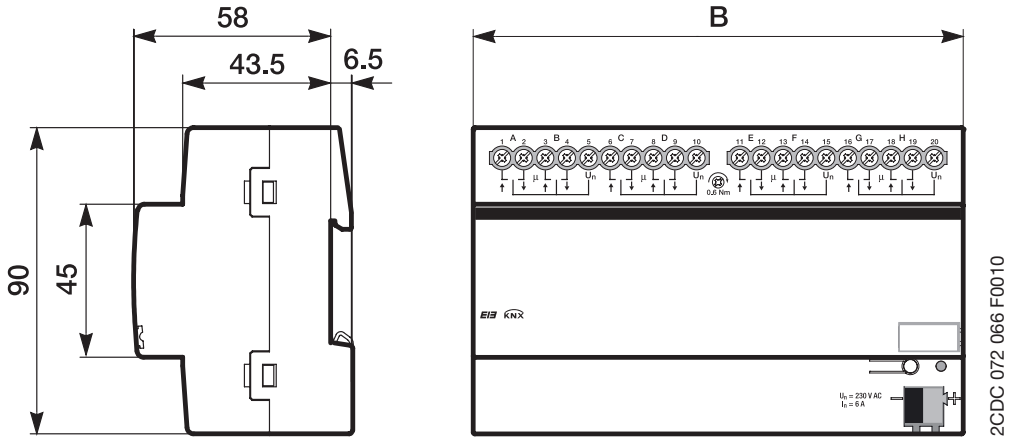
Dimension drawing JRA/S x.230.1.1



	JRA/S 2.230.1.1	JRA/S 4.230.1.1	JRA/S 8.230.1.1
B	72	72	144