

ABB i-bus® KNX Logic Controller ABA/S 1.2.1, 2CDG110192R0011



Product description

The device provides extensive logic functions. The logic is defined via a graphic editor integrated in the ETS. Up to 3,000 logic gates are possible. The generated logic can be tested by a simulation function. User-defined function blocks can be created and saved for taking them over into other projects.

The device requires an auxiliary voltage, either 24 V DC or Power over Ethernet (PoE). If timer functions are used the date and time has to be provided via KNX/TP.

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Technical data

Supply	Auxiliary voltage	24 V DC (-15 % / +20 %) or PoE (IEEE 802.3af class 2)
	Power loss	Max. 2.9 W
	Auxiliary voltage current consumption	60 mA typical 120 mA peak current
	KNX current consumption	< 10 mA
	Reserve power in case of auxiliary voltage failure	> 20 s
Connection	Auxiliary voltage connection terminals	Screw terminals 0.2...2.5 mm ² fine stranded, 0.2...4 mm ² solid
	Tightening torque	Max. 0.6 Nm
	KNX connection	Bus connection terminal
	LAN connection	RJ45 socket for 10/100BaseT IEEE 802.3 networks, AutoSensing
Operating and display elements	Red LED and button	For assignment of the physical address
	Green LED <i>ON</i>	Operation readiness indicator
	Yellow LED <i>LAN/Link</i>	Network connection indicator
	Yellow LED <i>Telegram</i>	KNX telegram traffic indicator
Degree of protection	IP 20	To DIN EN 60 529
Protection class	II	To DIN EN 61 140
Isolation category	Overtoltage category	III to DIN EN 60 664-1
	Pollution degree	II to DIN EN 60 664-1
Temperature range	Operation	- 5 °C...+45 °C
	Storage	-25 °C...+55 °C
	Transport	-25 °C...+70 °C
Ambient conditions	Maximum air humidity	95 %, no condensation allowed
	Atmospheric pressure	Atmosphere up to 2,000 m
Design	Modular installation device (MDRC)	Modular installation device, ProM
	Dimensions	90 x 72 x 64.5 mm (H x W x D)
	Mounting width in space units	2 x 36 mm modules
	Mounting depth	68 mm
Mounting	On 35 mm mounting rail	To DIN EN 60 715
Mounting position	Any	
Weight	0.19 kg	
Housing/color	Plastic, halogen free, gray	
Approvals	KNX to EN 50 090-1, -2	
CE mark	In accordance with the EMC guideline and low voltage guideline	

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Device type	Application	Max. number of group objects	Max. number of group addresses	Max. number of assignments
ABA/S 1.2.1	Logic Controller/1.0	505	2,000	2,000

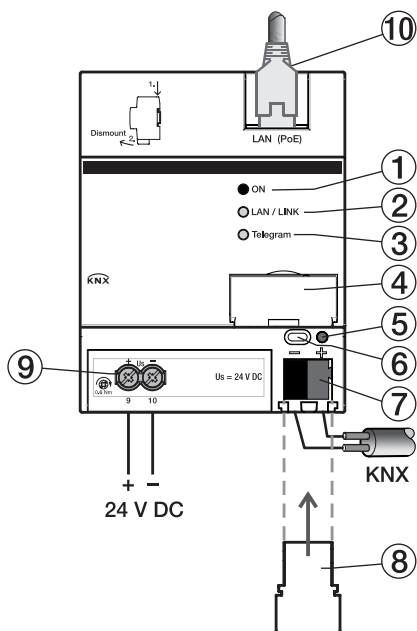
* ... = Current version number of the application. **Please refer to the software information on our website for this purpose.**

Note

For a detailed description of the application see the online manual „*Logic Controller ABA/S 1.2.1*“. ETS and the current version of the device application are required for programming. The current application can be found with the respective software information for download on the Internet at www.abb.com/knx. After import into ETS, the application appears in the *Catalogs* window under *Manufacturers/ABB/Controller/Controller*. The device does not support the locking function of a KNX device in ETS. If you use a *BCU code* to inhibit access to all the project devices, this has no effect on this device. Data can still be read and programmed.

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Connection schematic

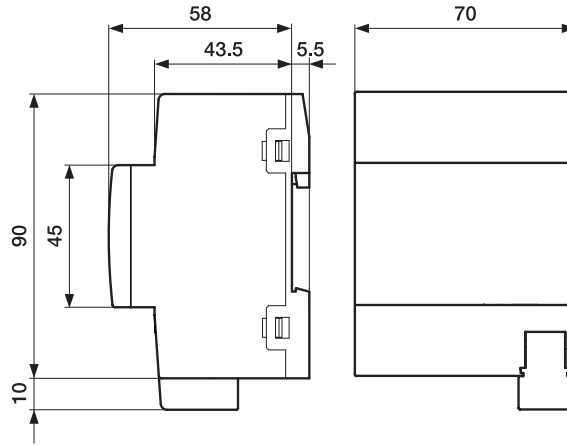


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- 1 LED ON (green)
- 2 LED LAN/Link (yellow)
- 3 LED Telegram (yellow)
- 4 Label carrier
- 5 Programming LED
- 6 Programming button
- 7 Bus connection terminal
- 8 Cover cap
- 9 Power supply connection U_s
- 10 LAN or LAN/PoE connection

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Dimension drawing



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