

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 mm² fine stranded, 0.2...4 mm² 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 | Overvoltage 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, Pro/M |
| | 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*.

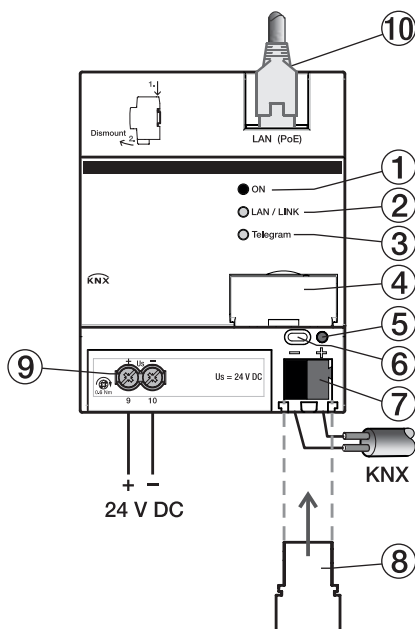
The device does not support the locking function of a KNX device in ETS. If you use a *BCU code* to inhibit access to all the project devices, this has no effect on this device. Data can still be read and programmed.

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Connection schematic

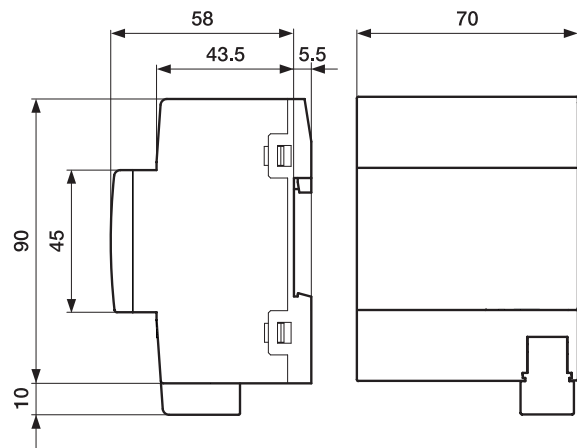


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- 1 LED ON (green)
- 2 LED LAN/Link (yellow)
- 3 LED Telegram (yellow)
- 4 Label carrier
- 5 Programming LED
- 6 Programming button
- 7 Bus connection terminal
- 8 Cover cap
- 9 Power supply connection U_s
- 10 LAN or LAN/PoE connection

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Dimension drawing



2CDC07203F0015

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