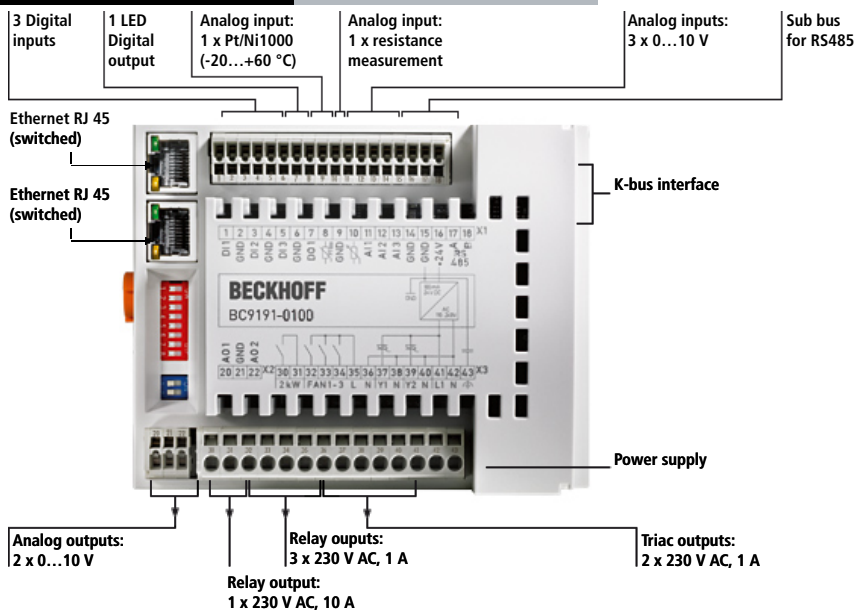




## BC9191-0100 | Building Automation Room Controller

**Ethernet TCP/IP** The compact BC9191 Room Controller has an integrated PLC and the sensor/actuator interfaces necessary for room automation. This way, it can be used as an autonomous or local controller. Compared with the BC9191-0000, the BC9191-0100 has an RS485 interface so that, for example, room control units, weather stations, electric door openers or DMX slaves can be connected. Communication with the devices generally takes place via the Modbus RTU protocol, but may also take place via a serial protocol which the user can freely define. The K-bus interface makes extension by the entire range of Bus Terminals possible at any time.

| PLC data              | Ethernet TCP/IP   BC9191-0100      |
|-----------------------|------------------------------------|
| Programming           | with TwinCAT via Ethernet          |
| Program memory        | 128 kbytes                         |
| Data memory           | 128 kbytes                         |
| Remanent data         | 2 kbytes                           |
| Runtime system        | 1 PLC task                         |
| Programming languages | IEC 61131-3 (IL, LD, FBD, SFC, ST) |
| Online change         | yes                                |

| Technical data                   | BC9191-0100                                                                                                                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Bus Terminals          | 64                                                                                                                                                                                                                      |
| Max. number of bytes fieldbus    | 512 byte input and 512 byte output                                                                                                                                                                                      |
| Ethernet interface               | 2 x RJ45 (switched)                                                                                                                                                                                                     |
| Protocol                         | TwinCAT ADS, Modbus TCP                                                                                                                                                                                                 |
| Digital inputs                   | 3 contacts (e.g. window contact, dew point, occupancy sensor)                                                                                                                                                           |
| Analog inputs                    | 3 x 0...10 V (e.g. CO <sub>2</sub> sensor, air quality sensor, brightness sensor)<br>1 x PT/Ni1000 (-20...+60 °C) for air temperature measurement<br>1 x resistance measurement for set value specification (0...10 KΩ) |
| Digital outputs                  | 1 x 230 V AC, 10 A, relay (e.g. air heater)<br>3 x 230 V AC, 1 A, relay (3-stage fan)<br>2 x 230 V AC, 1 A, triac (e.g. valves for heating and cooling)                                                                 |
| Analog outputs                   | 2 x 0...10 V (e.g. volumetric air flow controller)                                                                                                                                                                      |
| Bus interface                    | 2 x RJ45 (switched)                                                                                                                                                                                                     |
| Sub bus system                   | 1 x RS485                                                                                                                                                                                                               |
| Supply voltage                   | 230 V AC                                                                                                                                                                                                                |
| Current supply K-bus             | 200 mA                                                                                                                                                                                                                  |
| Dimensions (W x H x D)           | 118 mm (127 mm with end cover and DIN rail mounting) x 100 mm x 70 mm                                                                                                                                                   |
| Weight                           | approx. 345 g                                                                                                                                                                                                           |
| Operating/storage temperature    | 0...+55 °C/-25...+85 °C                                                                                                                                                                                                 |
| Protect. class/installation pos. | IP 20/vertical                                                                                                                                                                                                          |
| Approvals/markings               | CE                                                                                                                                                                                                                      |

| Accessories/related products |                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>KS2000</b>                | configuration software for extended parameterisation                                                                      |
| <b>TX1200</b>                | programming system conforms to IEC 61131-3                                                                                |
| <b>Cordsets</b>              | cordsets and connectors                                                                                                   |
| <b>FC9001-0010   FC9011</b>  | Ethernet PCI fieldbus cards                                                                                               |
| <b>TS6255</b>                | IEC 61131-3 software library for TwinCAT PLC with Modbus RTU function blocks for serial communication with Modbus devices |
| <b>BC9191</b>                | Bus Terminal Controller for Ethernet TCP/IP system, IEC 61131-3, Room Controller, sub bus for EnOcean                     |

| System                 |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| <b>Ethernet TCP/IP</b> | For further Ethernet TCP/IP products please see the <a href="#">system overview</a> |