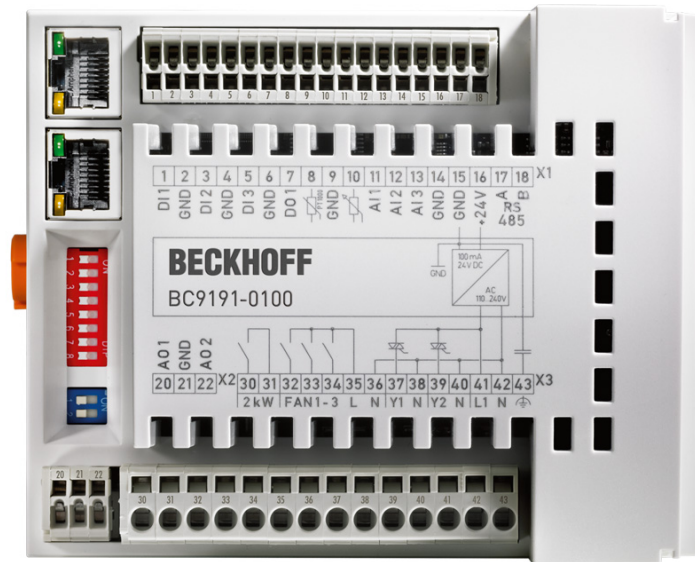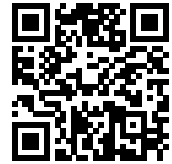# BC9191-0100 | Building Automation room controller

ℹ **Product status:** Regular delivery

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.

Product information

Technical data

PLC data	Ethernet TCP/IP	BC9191-0100
Programming	with TwinCAT 2 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_2 sensor, air quality sensor, brightness sensor) 1 x PT/Ni1000 (-20...+60 °C) for air temperature measurement 1 x resistance measurement for set value specification (0...10 KΩ)
Digital outputs	1 x 10 mA, LED output (max. 24 V) 1 x 230 V AC, 10 A, relay (e.g. air heater) 3 x 230 V AC, 1 A, relay (3-stage fan) 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. rating/installation pos.	IP20/vertical
Approvals/markings	CE

Housing data	BC9191
Design form	compact controller
Material	polycarbonate
Dimensions (W x H x D)	118 mm (127 mm with end cover and DIN rail mounting) x 100 mm x 70 mm
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Wiring	spring-loaded technique with pluggable wiring level
Connection cross-section	see documentation
Stripping length	see documentation

*s: solid wire; st: stranded wire; f: with ferrule

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