TURCK

BL20-PG | BL67-PG
Ethernet Gateways

Programmable with CODESYS 3

The PG gateways for the BL20 and BL67 modular I/O systems can be programmed with CODESYS 3 and are equipped with Turck's multi-protocol technology. These features allow the devices to be used in any of the three Ethernet protocols PROFINET, EtherNet/IP, and Modbus TCP. The programmable gateways can be used for numerous applications in which decentralized intelligence on site is useful. The gateways are suitable not only for autonomous control tasks, but also as protocol converters — for example from Ethernet to serial communication.

The devices also provide valuable services for communication in RFID applications. For example, they can take on internal system data communication tasks to relieve the higher-level controller and forward user data only. This setup means that field devices with serial interfaces can be integrated into the Ethernet automation world or RFID systems can be connected directly to PC-based automation solutions.

The PG gateways can also be connected directly to the Turck Cloud, extending their use as edge gateways or devices with flexibly configurable I/O combinations.

Your Benefits

- Simple programming with CODESYS 3 in line with IEC 61131-3
- Edge device and Turck Cloud Gateway
- OPC-UA server and client
- Use as a device in PROFINET, EtherNet/IP and Modbus/TCP networks
- Autonomous control or decentralized pre-processing
- Protocol converter, for example from Ethernet to serial communication
- Integrated web server

Programmable Ethernet Gateways

Product highlights

CODESYS 3

- Simple programming with CODESYS 3 in line with IEC 611313; supports the following programming languages: LD, FBD, IL, ST, CFC and SFC
- Available with CODESYS WebVisu as an option
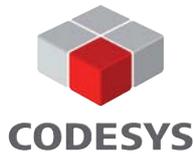
Turck Cloud Gateway

- Direct connection from the I/O system to the Turck Cloud
- No additional edge gateways required
- Flexible I/O configuration thanks to the modular design
- Integration of additional field devices is possible
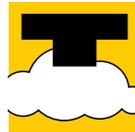
Communication

- The gateways can be used as slave devices in the three Ethernet protocols PROFINET, EtherNet/IP or Modbus TCP, thus significantly reducing storage and project planning costs

Key features

- CODESYS v3 PLC
- CODESYS WebVisu (optional)
- Turck Cloud Gateway
- IIoT edge device
- OPC-UA server and client (in preparation)
- Two independent Ethernet ports

- PROFINET or EtherNet/IP slave device
- Modbus TCP master or slave device
- IO-Link master
- RS485 and RS232 interfaces
- Modbus RTU master as CODESYS FB
- Temperature range of the IP67 variants: -40…+70 °C

Device overview

	Ident-No.	Type designation	Description
	6827394	BL67-PG-EN-V3	IP67
	100000041	BL67-PG-EN-V3-WV	IP67 with CODESYS WebVisu
	6827393	BL20-PG-EN-V3	IP20, for control cabinets
	6827398	BL20-PG-EN-V3-WV	IP20, for control cabinet, with CODESYS WebVisu

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