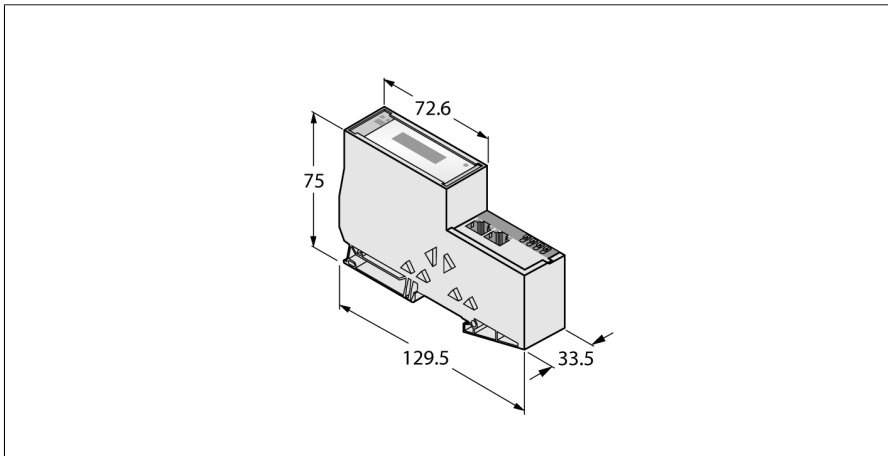


Multiprotocol interface for Ethernet

BL20-E-GW-EN



- Protection class IP20
- 2 x end brackets BL20-WEW35/2-SW
- 1 x end plate BL20-ABPL
- LEDs for display of supply voltage, group and bus errors
- Multiprotocol gateway between the BL20 system and the Ethernet protocols Modbus TCP, EtherNet/IP™ and PROFINET (from VN 03-00)
- PROFINET supports fast start-up (FSU)
- EtherNet/IP™ supports QuickConnect (QC)
- Integrated switch 10/100 Mbps
- Two RJ45 ports for fieldbus connection
- Push-in terminals for connection of power supply

Type designation	BL20-E-GW-EN
Ident-No.	6827329
Supply voltage	
System power supply	24 VDC
Field supply	24 VDC / 5 VDC
Admissible range	24 VDC
Nominal current from module bus	18...30 VDC
Max. field supply current	≤ 200 mA
Max. system supply current	8 A
Voltage supply connection	0.4 A
	Push-in terminals
Fieldbus transmission rate	
	10/100 Mbps, Full/Half Duplex, Auto Negotiation, Auto Crossing
System data	
Max. number of I/O modules	31
Connection technology Ethernet	2 x RJ45, female
Protocol detection	automatic
Web server	192.168.1.254 (Default)
Service interface	Ethernet
Modbus TCP	
Addressing	Static IP, BOOTP, DHCP
Supported function codes	FC1, FC2, FC3, FC4, FC5, FC6, FC15, FC16, FC23
Number of TCP connections	8
Input Data Size	max. 1024 register
Input register start address	0 (0x0000 hex)
Output Data Size	max. 1024 register
Output register start address	2048 (0x0800 hex)
EtherNet/IP™	
Addressing	acc. to EtherNet/IP™ specification
Device Level Ring (DLR)	supported
Class 1 connections	8
PROFINET	
Addressing	DCP
Conformance class	B (RT)
MinCycleTime	1 ms
Diagnostics	acc. to PROFINET alarm handling
Topology detection	supported
Automatic addressing	supported
Media Redundancy Protocol (MRP)	supported

Functional principle

BL20 gateways are the head component of a BL20 station. They are designed to interface the modular fieldbus nodes to the higher level fieldbus (PROFIBUS-DP, DeviceNet, CANopen, Ethernet).

All BL20 electronic modules communicate over the internal module bus, the data of which is transferred to the fieldbus via the gateway, so that all I/O modules can be configured independently of the bus system.

Multiprotocol interface for Ethernet BL20-E-GW-EN



Dimensions (W x L x H)	33.5 x 129.5 x 74.4mm
Approvals	CE, cULus, zone 2, Class I, Div. 2
Operating temperature	0 to +55 °C
Storage temperature	-25...+85 °C
Relative humidity	5 to 95% (internal), Level RH-2, no condensation (at 45 °C storage)
Vibration test	acc. to EN 61131
Shock test	acc. to IEC 68-2-27
Drop and topple	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Electromagnetic compatibility	acc. to EN 50,082-2
Protection class	IP20
MTTF	328 years acc. to SN 29500 (Ed. 99) 20 °C

Included in delivery	2 x end brackets BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL
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Multiprotocol interface for Ethernet BL20-E-GW-EN



Anschlussübersicht

	<p>Ethernet</p> <p>Fieldbus cable (example): RJ45S-RJ45S-441-2M (ident no. 6932517) or RJ45-FKSDD-441-0,5M/S2174 (ident no. 6914221)</p>	<p>Pin Assignment</p>
	<p>Power Supply</p> <p>The U_{sys} system supply feeds power to the gateway and the I/O modules. The U_L field supply feeds power to the sensors and actuators.</p>	<p>Pin Assignment</p>