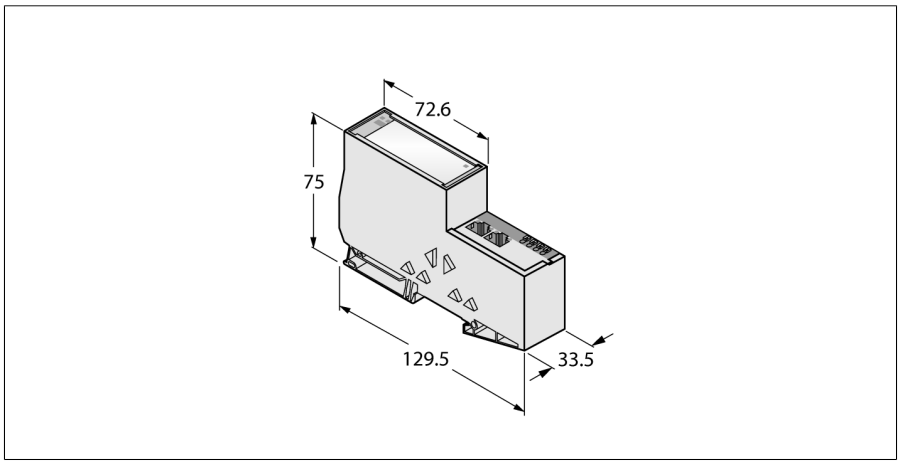
Gateway for the BL20 I/O System
High-feature Interface for PROFINET IO (RT/IRT)
BL20-E-GW-PN

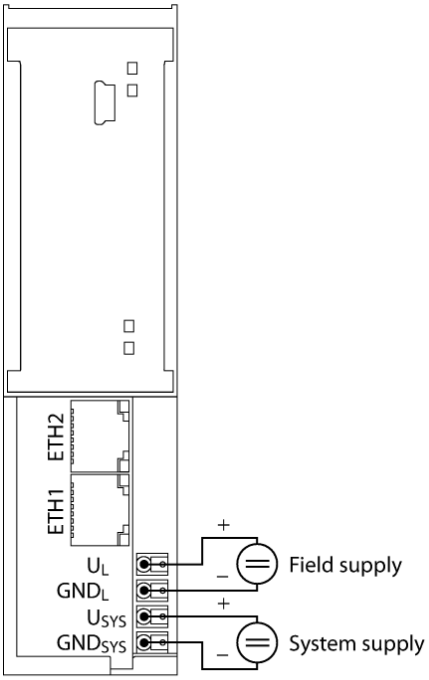


- **Protection class IP20**
- **2 x end brackets BL20-WEW35/2-SW**
- **1 x end plate BL20-ABPL**
- **LEDs for display of supply voltage, group and bus errors**
- **Gateway between the BL20 system and PROFINET (IRT)**
- **Supports topology recognition and LLDP**
- **10/100 Mbps, Auto MDIX**
- **2 x RJ45 port**

Attention: This gateway is nearing the end of the product life cycle

Type designation	BL20-E-GW-PN
Ident no.	6827377
Supply voltage	24 VDC
System power supply	24 VDC / 5 VDC
Field supply	24 VDC
Admissible range	18…30 VDC
Nominal current from module bus	≤ 200 mA
Max. field supply current	8 A
Max. system supply current	0.8 A
Voltage supply connection	Push-in terminals
System data	
Max. number of I/O modules	72
Transmission rate	10/100 Mbps; full/half duplex; auto negotiation; auto crossing
Connection technology Ethernet	2 x RJ45, female
Service interface	Mini USB
PROFINET	
Addressing	DCP
Conformance class	C (IRT)
MinCycleTime	1 ms
Diagnostics	acc. to PROFINET alarm handling
Topology detection	supported
Automatic addressing	supported
Media Redundancy Protocol (MRP)	not supported
Dimensions (W x L x H)	33.5 x 129.5 x 74.4mm
Approvals	CE
Operating temperature	0…+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
Included in delivery	2 x end brackets BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL

Field/System Supply



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.

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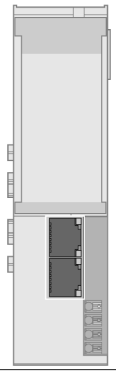
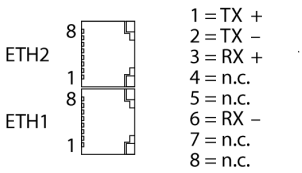
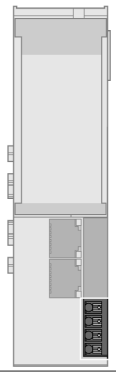
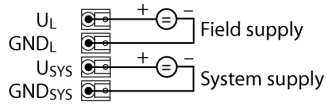
Anschlussübersicht

	**PROFINET** Fieldbus cable (example): RJ45S-RJ45S-441-2M (ident no. 6932517) or RJ45-FKSDD-441-0,5M/S2174 (ident no. 6914221)	Pin Assignment 
	**Power Supply** 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.	Pin Assignment 

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