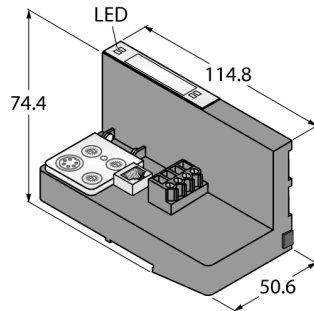


Gateway for the BL20 I/O System

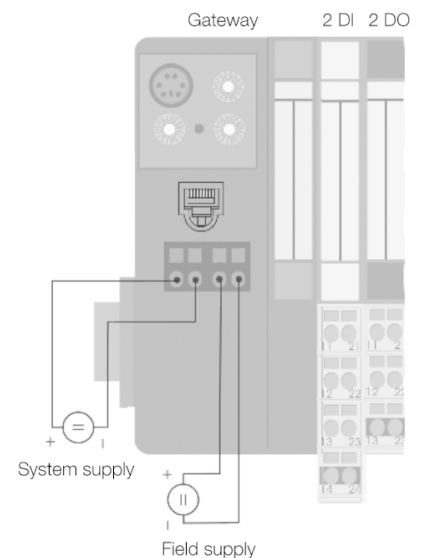
Interface for Modbus TCP

BL20-GW-EN



- Rotary coding switch to adjust the node address
- Protection class IP20
- 2 x end brackets BL20-WEW35/2-SW
- 1 x end plate BL20-ABPL
- Integrated power supply
- LEDs for display of supply voltage, group and bus errors
- Gateway between the BL20 system and MODBUS TCP
- 10/100 Mbps
- RJ45 female

Field/System Supply



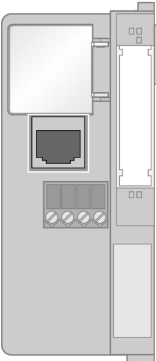
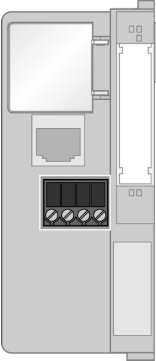
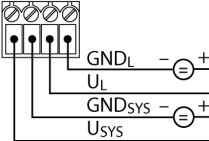
Functional principle

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.

Type	BL20-GW-EN
ID	6827237
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	≤ 500 mA
Max. field supply current	10 A
Max. system supply current	1.2 A
Voltage supply connection	Screw terminals
Fieldbus addressing	Rotary switch, BOOTP, DHCP, IO-ASSISTANT
Fieldbus connection technology	RJ45 port
Max. number of I/O modules	74
Transmission rate	10/100 Mbps; full/half duplex; auto negotiation; auto crossing
Web server	192.168.1.254 (Default)
Service interface	PS/2 socket
Dimensions (W x L x H)	50.6 x 114.8 x 74.4 mm
Approvals	CE, cULus, zone 2, Class I, Div. 2
Ambient temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	15...95 %, no condensation allowed
Vibration test	Acc. to EN 61131
Shock test	Acc. to IEC 60068-2-27
Drop and topple	Acc. to IEC 60068-2-31
Electromagnetic compatibility	Acc. to EN 61131-2
Protection class	IP20
Included in delivery	2 x end brackets BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL

Anschlussübersicht

	Modbus TCP Fieldbus cable (example): RJ45S-RJ45S-441-2M (ident no. 6932517) or RJ45-FKSDD-441-0,5M/S2174 (ident no. 6914221)	Pin Assignment  12345678 1 = TX + 2 = TX - 3 = RX + 4 = n.c. 5 = n.c. 6 = RX - 7 = n.c. 8 = n.c.
	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  GND_L - + U_L GND_{sys} - + U_{sys} Field supply System supply