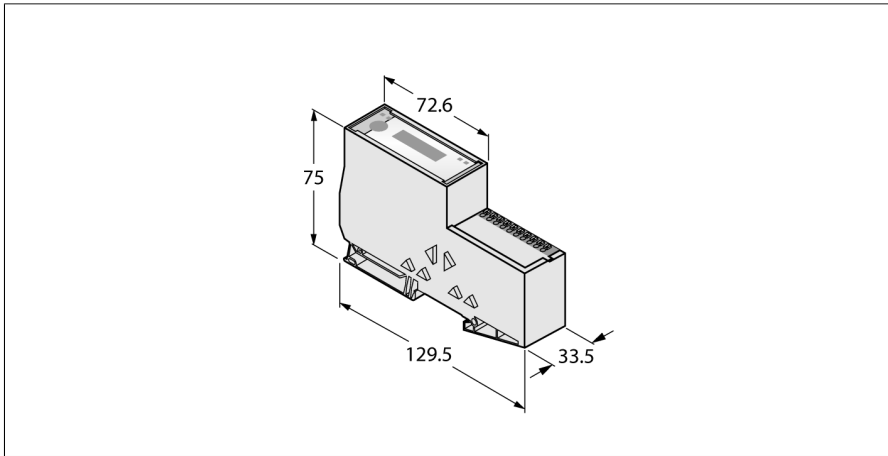


Gateway for the BL20 I/O System Interface for PROFIBUS-DP BL20-E-GW-DP



- DIP switch for adjustment of 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 PROFIBUS-DPV0/DPV1
- 12 Mbps
- Push-in clamps
- Bus termination resistor switchable via DIP switch


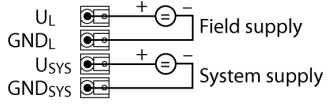

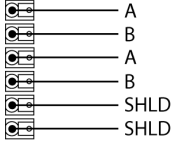
| | |
|---------------------------------|--|
| Type | BL20-E-GW-DP |
| ID | 6827250 |
| Supply voltage | 24 VDC |
| System power supply | 24 VDC / 5 VDC |
| Field supply | 24 VDC |
| Admissible range | 18...30 VDC |
| Nominal current from module bus | ≤ 400 mA |
| Max. field supply current | 8 A |
| Max. system supply current | 1 A |
| Voltage supply connection | Push-in terminals |
| Fieldbus transmission rate | 9.6 kbps ... 12 Mbps |
| Fieldbus addressing | via DIP switch |
| Fieldbus address range | 1...126 |
| Fieldbus connection technology | Push-in clamps |
| Fieldbus termination | via DIP switch |
| Max. number of I/O modules | 48 |
| Service interface | PS/2 socket |
| Number of diagnostics bytes | 3 |
| Number of parameter bytes | 5 |
| Dimensions (W x L x H) | 33.5 x 129.5 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 68-2-31 and free fall to IEC 68-2-32 |
| Electromagnetic compatibility | Acc. to EN 50082-2 |
| Protection class | IP20 |
| MTTF | 351 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 |

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.

Anschlussübersicht

| | | |
|--|---|---|
|  | <p>Power Supply</p> <p>The U_{SYS} system supply feeds power to the gateway and the I/O modules.</p> <p>The U_{L} field supply feeds power to the sensors and actuators.</p> | <p>Pin Assignment</p>  |
|  | <p>PROFIBUS-DP</p> <p>Fieldbus cable (example): D9T451-2M (ident no. 6915759) or RSSW-451-2M (ident no. 6914229)</p> | <p>Pin Assignment</p>  |

Accessories

| Type code | Ident-No. | | Dimension drawing |
|----------------------------|-----------|---|---|
| BL20-ABPL (2 PCS.) | 6827123 | End plate for a BL20 station after the last I/O module (2 pieces) |  |
| BL20-WEW-35/2-SW (10 PCS.) | 6827124 | End bracket for fixation of a BL20 station (10 pieces) |  |