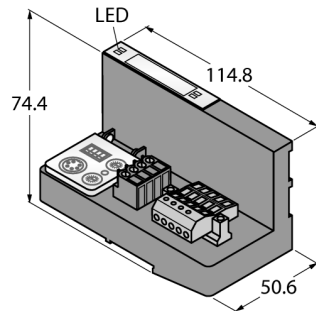


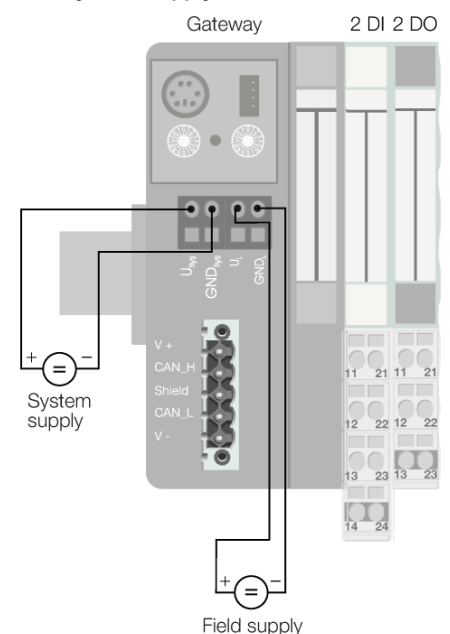
# Gateway for the BL20 I/O System Interface for DeviceNet™ BL20-GWBR-DNET



|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Type                            | BL20-GWBR-DNET                                                                       |
| ID                              | 6827168                                                                              |
| 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 | ≤ 250 mA                                                                             |
| Max. field supply current       | 10 A                                                                                 |
| Max. system supply current      | 1.2 A                                                                                |
| Voltage supply connection       | Screw terminals                                                                      |
| Fieldbus transmission rate      | 125/250/500 kbps                                                                     |
| Fieldbus addressing             | 2 rotary switches                                                                    |
| Fieldbus address range          | 0...63                                                                               |
| Fieldbus connection technology  | Open style connector                                                                 |
| Fieldbus termination            | External                                                                             |
| Max. number of I/O modules      | 74                                                                                   |
| 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                                                                                 |
| MTTF                            | 281 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, 1 x open style connector |

- Rotary coding switch for adjustment of the node address
- Protection class IP20
- 2 x end brackets BL20-WEW35/2-SW
- 1 x end plate BL20-ABPL
- 1 x open style connector
- Integrated power supply
- LEDs for display of supply voltage, group and bus errors
- Gateway between the BL20 system and DeviceNet
- 125 / 250 / 500 kbps
- Connection to DeviceNet™ established via Open-Style connector

## Field/System Supply

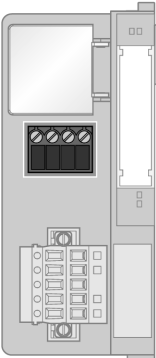
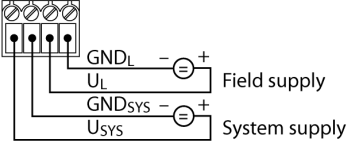
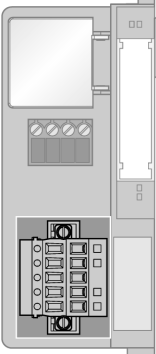
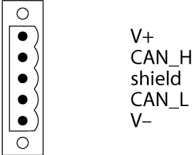


**Functional principle**

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.

Anschlussübersicht

|                                                                                    |                                                                                                                                                                                                             |                                                                                                           |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|   | <p><b>Power Supply</b></p> <p>The <math>U_{sys}</math> system supply feeds power to the gateway and the I/O modules.</p> <p>The <math>U_L</math> field supply feeds power to the sensors and actuators.</p> | <p>Pin Assignment</p>  |
|  | <p><b>DeviceNet</b></p> <p>Fieldbus cable (example):<br/>CBC5-572-2M (ident no. 6606065) or<br/>RKC5701-5M (ident no. 6931035)</p>                                                                          | <p>Pin Assignment</p>  |