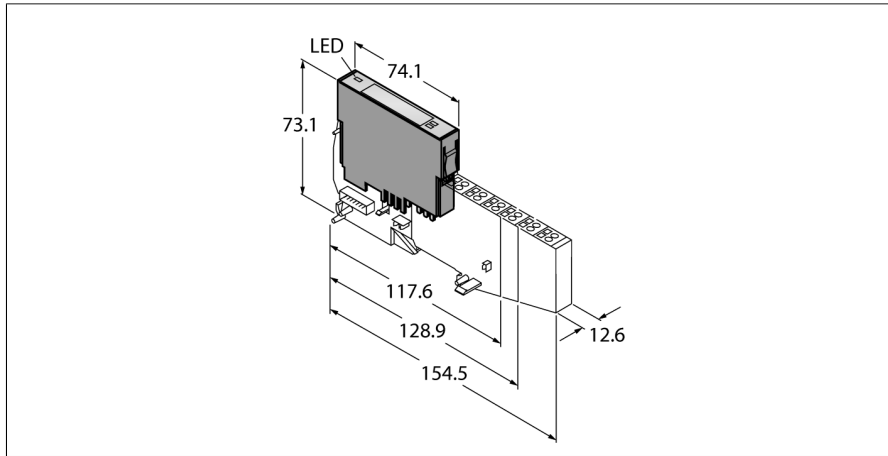


# BL20 electronic module

## 2 Digital Outputs, PNP, 2.0 A

### BL20-2DO-24VDC-2A-P



- Fieldbus and connection technology independent
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 2 digital outputs, 24 VDC
- Max. 2 A
- P switching

#### Functional principle

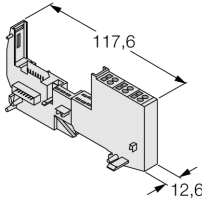
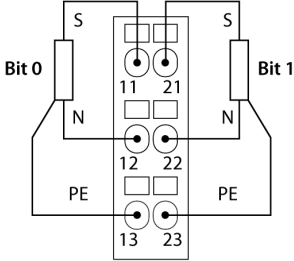
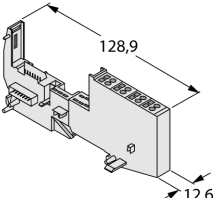
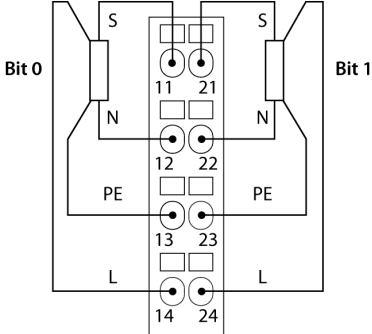
BL20 electronic modules are plugged into the purely passive base modules which are used for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Furthermore flexibility is enhanced because the base modules provide a choice of tension spring or screw connection technology.

The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

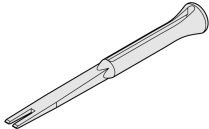
|                                        |                                 |
|----------------------------------------|---------------------------------|
| Type                                   | BL20-2DO-24VDC-2A-P             |
| ID                                     | 6827026                         |
| Number of channels                     | 2                               |
| Rated voltage from the supply terminal | 24 VDC                          |
| Nominal current from field supply      | ≤ 50 mA                         |
| Nominal current from module bus        | ≤ 33 mA                         |
| Power dissipation, typical             | ≤ 1 W                           |
| Output connectivity                    | Screw, tension spring           |
| Outputs                                |                                 |
| Output type                            | PNP                             |
| Output voltage                         | 24 VDC                          |
| Output current per channel             | 2 A                             |
| Output delay                           | 0.1 ms                          |
| Load type                              | resistive, inductive, lamp load |
| Load resistance, resistive             | > 12 Ω                          |
| Load resistance, inductive             | < 1.2 H                         |
| Lamp load                              | < 6 W                           |
| Switching frequency, resistive         | < 5000 Hz                       |
| Switching frequency, lamp load         | < 10 Hz                         |
| Short-circuit protection               | yes                             |
| Simultaneity factor                    | 1                               |
| Electrical isolation                   | electronics for the field level |
| Number of diagnostic bits              | 2                               |

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Dimensions (W x L x H)        | 12.6 x 74.1 x 55.4 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                          | 680 years acc. to SN 29500 (Ed. 99) 20 °C |

Compatible base modules

| Dimension drawing                                                                 | Type                                                                                                                                                                   | Pin configuration                                                                                          |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|  | <p><b>BL20-S3T-SBC</b><br/>6827058<br/>Tension spring connection, access to C rail</p> <p><b>BL20-S3S-SBC</b><br/>6827059<br/>Screw connection, access to C rail</p>   | <p>Wiring Diagram</p>   |
|  | <p><b>BL20-S4T-SBCS</b><br/>6827063<br/>Tension spring connection, access to C rail</p> <p><b>BL20-S4S-SBCS</b><br/>6827060<br/>Screw connection, access to C rail</p> | <p>Wiring Diagram</p>  |

Accessories

| Type code                 | Ident-No. |                     | Dimension drawing                                                                   |
|---------------------------|-----------|---------------------|-------------------------------------------------------------------------------------|
| ZBW5-2BETÄTIGUNGSWERKZEUG | 68271103  | Tension spring tool |  |