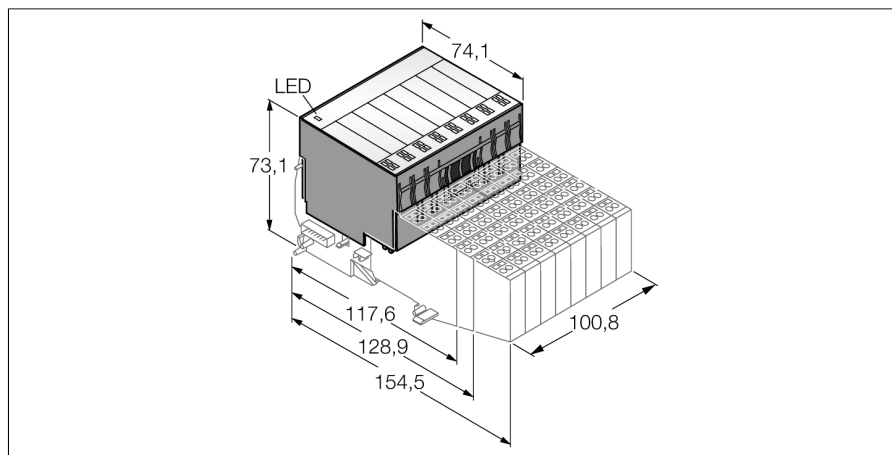


# BL20 electronic module

## 32 Digital Inputs, PNP

### BL20-32DI-24VDC-P



- Fieldbus and connection technology independent
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 32 digital inputs, 24 VDC, PNP 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.

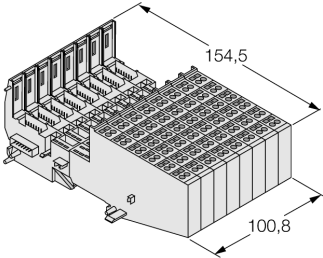
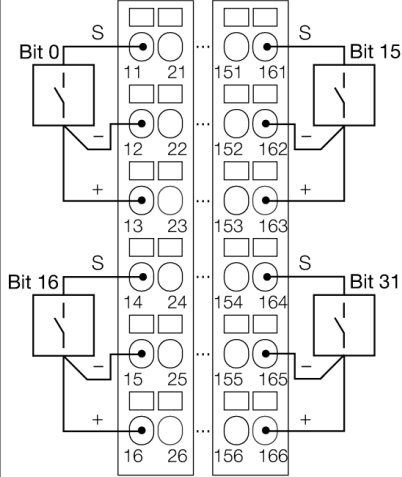
The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

|                                        |                   |
|----------------------------------------|-------------------|
| Type                                   | BL20-32DI-24VDC-P |
| ID                                     | 6827015           |
| Number of channels                     | 32                |
| Rated voltage from the supply terminal | 24 VDC            |
| Nominal current from field supply      | ≤ 30 mA           |
| Nominal current from module bus        | ≤ 45 mA           |
| Power dissipation, typical             | ≤ 4.2 W           |

|                           |                                 |
|---------------------------|---------------------------------|
| <b>Inputs</b>             |                                 |
| Input type                | PNP                             |
| Low-level signal voltage  | -30...+5 V                      |
| High level signal voltage | 15...30 V                       |
| Low level signal current  | < 1.5 mA                        |
| High level signal current | 2...10 mA                       |
| Input delay               | < 0.2 ms                        |
| Electrical isolation      | electronics for the field level |
| Output connectivity       | Screw, tension spring           |

|                               |                                    |
|-------------------------------|------------------------------------|
| Dimensions (W x L x H)        | 100.8 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                               |

Compatible base modules

| Dimension drawing                                                                 | Type                                                                                                                                   | Pin configuration                                                                                         |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  | <p><b>BL20-B6T-SBBSBB</b><br/>6827065<br/>Tension spring connection</p> <p><b>BL20-B6S-SBBSBB</b><br/>6827067<br/>Screw connection</p> | <p>Wiring Diagram</p>  |