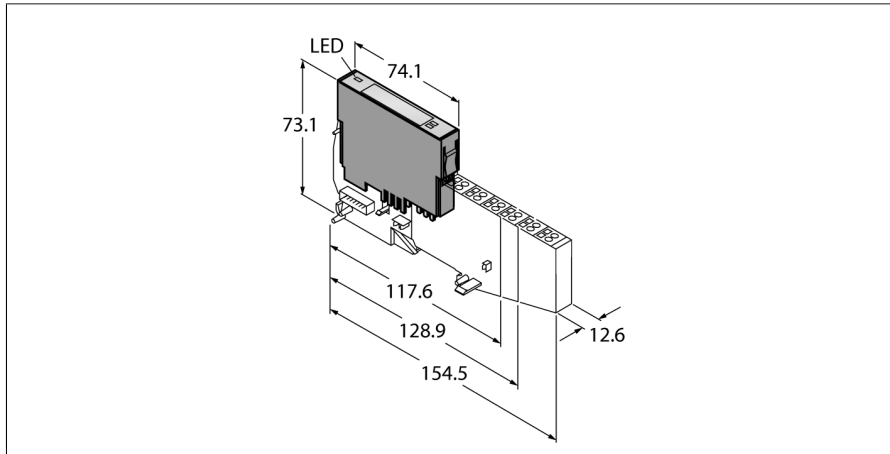


BL20 electronic module

Relay Module, 2 × NO

BL20-2DO-R-NO



- Fieldbus and connection technology independent
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 2 NO channels

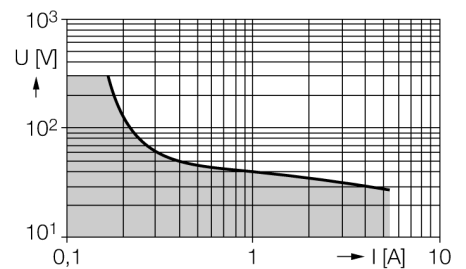
Functional principle

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.

Load limit curve

Definition: At 1000 switching cycles, a standing electric arc of > 10 ms may not occur.



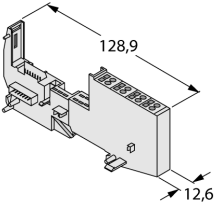
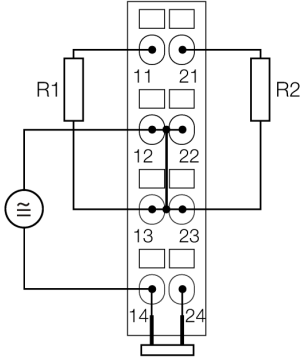
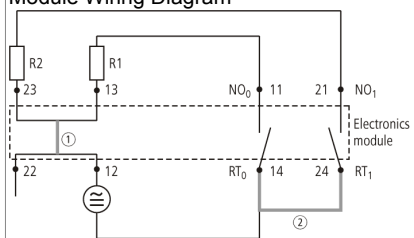
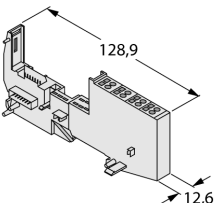
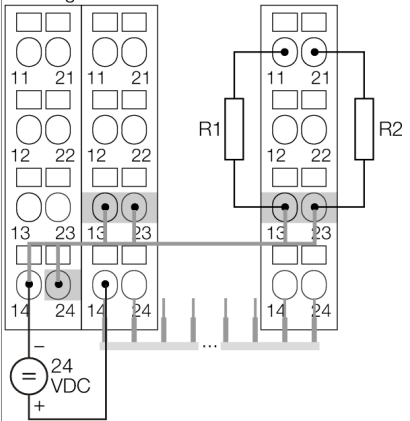
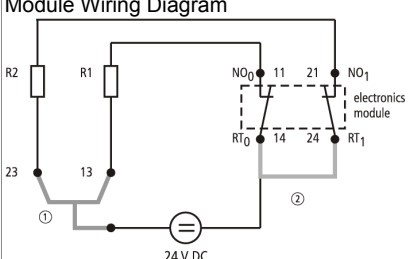
| | |
|--|----------------|
| Type | BL20-2DO-R-NO |
| ID | 6827029 |
| Number of channels | 2, NO contacts |
| Rated voltage from the supply terminal | 24 VDC |
| Nominal current from field supply | ≤ 20 mA |
| Nominal current from module bus | ≤ 28 mA |
| Power dissipation, typical | ≤ 1 W |

| | |
|---------------------|-----------------------|
| Output connectivity | Screw, tension spring |
|---------------------|-----------------------|

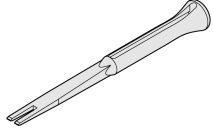
| | |
|--|---------------------------------|
| Outputs | |
| Load type | resistive, inductive, lamp load |
| Rated load voltage | 230/30 VAC/DC |
| Simultaneity factor | 1 |
| Useful lifetime at 230 VAC, 5 A | 100000 |
| Useful lifetime at 230 VAC, 0.5 A | 1000000 |
| Output current with DC voltage (resistive) | see load limit curve |
| Electrical isolation | electronics for the field level |

| | |
|-------------------------------|--|
| 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 68-2-31 and free fall to IEC 68-2-32 |
| Electromagnetic compatibility | Acc. to EN 50082-2 |
| Protection class | IP20 |
| MTTF | 1517 years acc. to SN 29500 (Ed. 99) 20 °C |

Compatible base modules

| Dimension drawing | Type | Pin configuration |
|---|--|---|
|  | <p>BL20-S4T-SBBS 6827046 tension spring connection</p> <p>Comments with externally applied supply and cross connected root 1) Jumpered in the electronics 2) cross-connection via QVR in the base</p> <p>BL20-S4S-SBBS 6827047 screw connection</p> <p>Comments with externally applied supply and cross connected root 1) Jumpered in the electronics 2) cross-connection via QVR in the base</p> | <p>Wiring Diagram</p>  <p>Module Wiring Diagram</p>  |
|  | <p>BL20-S4T-SBCS 6827063 tension spring connection</p> <p>Comments with supply via C rail and cross connected root 1) C rail 2) cross-connection via QVR in the base; max. 8 relay modules</p> <p>BL20-S4S-SBCS 6827060 screw connection</p> <p>Comments with supply via C rail and cross connected root 1) C rail 2) cross-connection via QVR in the base; max. 8 relay modules</p> | <p>Wiring Diagram</p> <p>Power feeding Relay 1 Relay n</p>  <p>Module Wiring Diagram</p>  |

Accessories

| Type code | Ident no. | | Dimension drawing |
|---------------------|-----------|---------------------|---|
| ZBW5-2BETÄTIGUNGSWE | 6827106 | Tension spring tool |  |