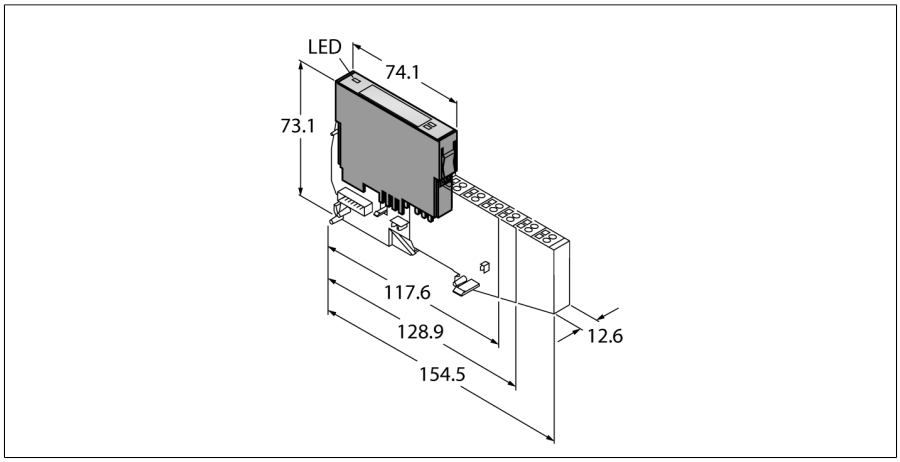
BL20 electronic module
Relay Module, 2 × Normally Closed
BL20-2DO-R-NC



- Fieldbus and connection technology independent
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 2 NC channels

Type	BL20-2DO-R-NC
ID	6827028
Number of channels	2, NC 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 60068-2-31
Electromagnetic compatibility	Acc. to EN 61131-2
Protection class	IP20

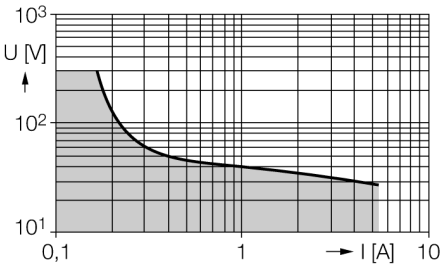
Functional principle

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.



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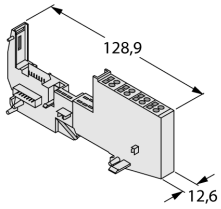
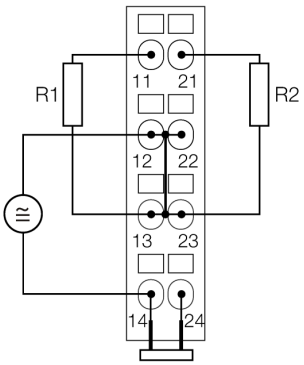
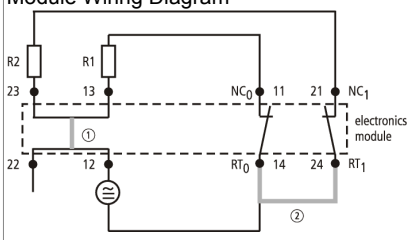
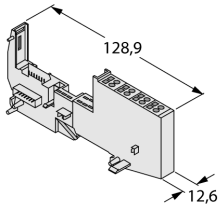
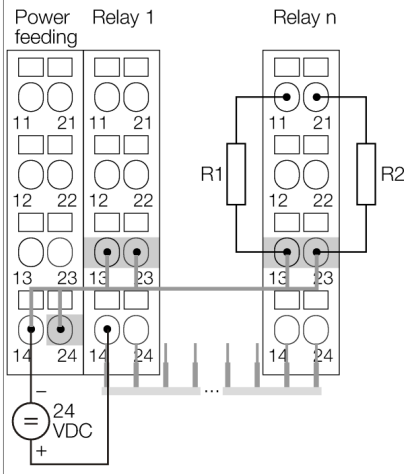
Compatible base modules

Dimension drawing	Type	Pin configuration
	**BL20-S4T-SBBS** 6827046 tension spring connection **Comments** with externally applied supply and cross connected root 1) Jumpered in the electronics 2) cross-connection via QVR in the base **BL20-S4S-SBBS** 6827047 screw connection **Comments** with externally applied supply and cross connected root 1) Jumpered in the electronics 2) cross-connection via QVR in the base	Wiring Diagram  Module Wiring Diagram 
	**BL20-S4T-SBCS** 6827063 tension spring connection **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 **BL20-S4S-SBCS** 6827060 screw connection **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	Wiring Diagram  Module Wiring Diagram