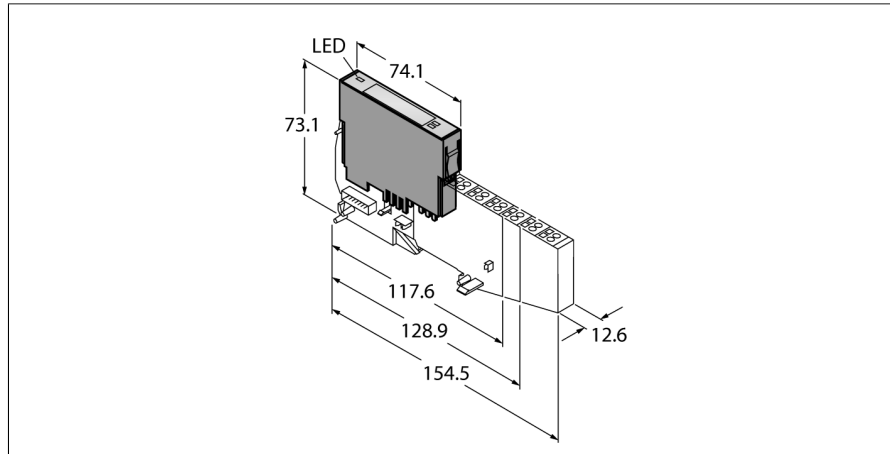


BL20 electronic module

RS485/422 Interface

BL20-1RS485/422



- Fieldbus and connection technology independent
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- Übertragung serieller Datenströme mittels RS485/422-Schnittstelle
- Zum Anschluss diverser Geräte wie z. B. Drucker, Scanner oder Barcode-Leser

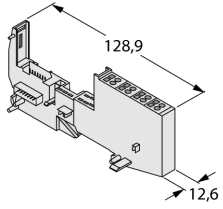
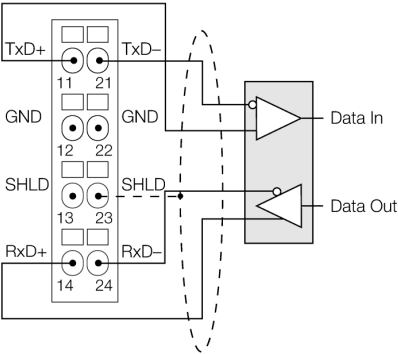
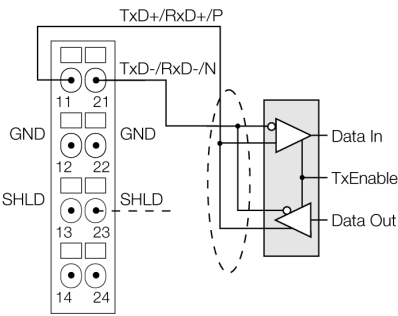
Functional principle

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	BL20-1RS485/422
ID	6827165
Number of channels	1
Rated voltage from the supply terminal	24 VDC
Nominal current from field supply	≤ 25 mA
Nominal current from module bus	≤ 60 mA
Power dissipation, typical	≤ 1 W
Inputs/outputs	
Transmission signals	TxD, RxD
Receive/send data buffer	128/64Byte
Connection type	2-wire half duplex or 4-wire full duplex
Transmission rate	300 to 115,200 bps
Parameters	RS485/422, transmission rate, diagnostics, data bits, stop bits, XON - character, XOFF - character, parity, flow control
Cable length	30 m
Line impedance	120 Ω
Terminating resistor	external
Electrical isolation	Electronics and field level isolated via optocouplers
Output connectivity	Screw, tension spring
Number of input bytes	8
Number of output bytes	8
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	836 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>BL20-S4S-SBBS 6827047 Screw connection</p>	<p>Wiring Diagram for RS422</p>  <p>Wiring Diagram for RS485</p> 

Accessories

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