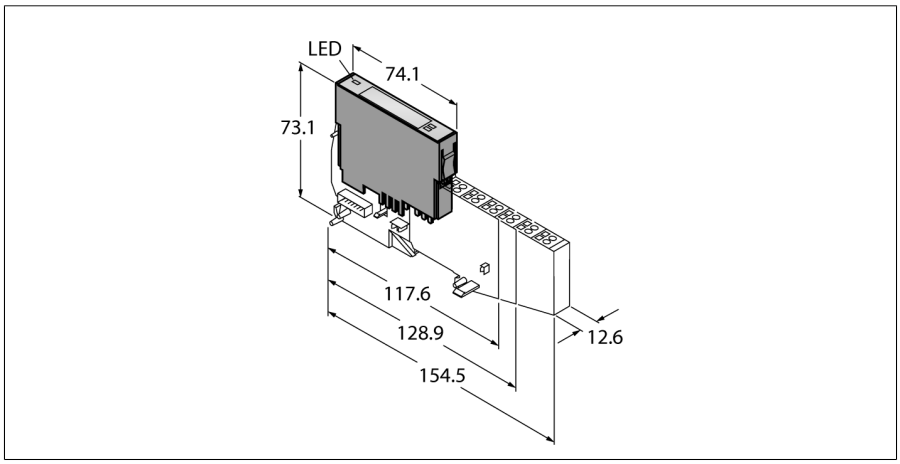
BL20 electronic module
RS485/422 Interface
BL20-1RS485/422



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 designation	BL20-1RS485/422
Ident-No.	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
Data buffer received / sent	128/ 64Byte
Connection type	2-wire half duplex or 4-wire full duplex
Transmission rate	300 to 115200 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 55.4mm
Approvals	CE, cULus, zone 2, Class I, Div. 2
Operating temperature	0 to +55 °C
Storage temperature	-25…+85 °C
Relative humidity	5 to 95% (internal), Level RH-2, no condensation (at 45 °C storage)
Vibration test	acc. to EN 61131
Shock test	acc. to IEC 68-2-27
Drop and topple	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Electromagnetic compatibility	acc. to EN 50,082-2
Protection class	IP20

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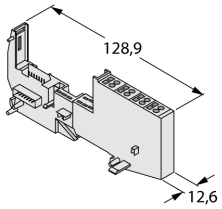
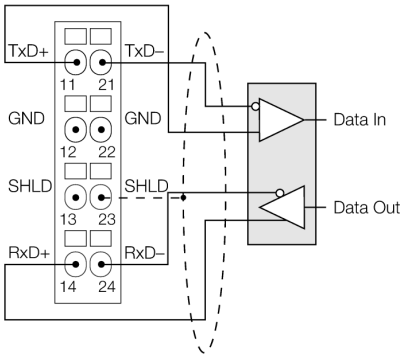
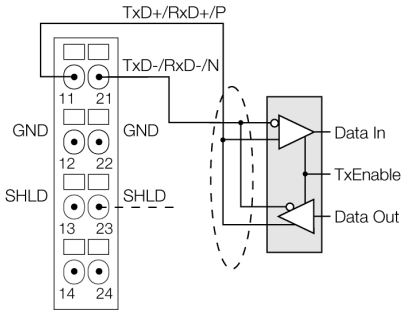
Compatible base modules

Dimension drawing	Type	Pin configuration
	**BL20-S4T-SBBS** 6827046 Tension spring connection **BL20-S4S-SBBS** 6827047 Screw connection	Wiring Diagram for RS422  Wiring Diagram for RS485 

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