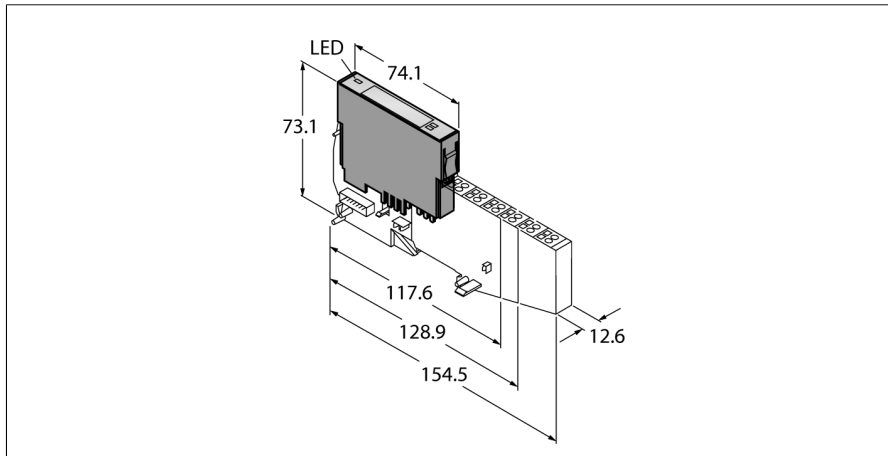# BL20 electronic module
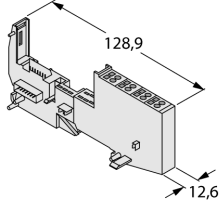# RS232 Interface
BL20-1RS232

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	BL20-1RS232
Ident-No.	6827169

Number of channels	1
Rated voltage from the supply terminal	24 VDC
Nominal current from field supply	$\leq$ 25 mA
Nominal current from module bus	$\leq$ 140 mA
Power dissipation, typical	$\leq$ 1 W

Inputs / Outputs	
Transmission level active (URS1)	-15 to -3 VDC
Transmission level inactive (URSO)	3 to 15 VDC
Common-mode range (UGL)	-7 to 12 VDC
Transmission signals	RxD, TxD, RTS, CTS
Data buffer received / sent	128/ 64Byte
Connection type	full duplex
Transmission rate	300 to 115200 bps
Parameters	Transmission rate, diagnostics, data bits, stop bits, XON - character, XOFF - character, parity, flow control
Cable length	15 m
Electrical isolation	Electronics and field level isolated via optocouplers

Output connectivity	Screw, tension spring

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

BL20 electronic module
RS232 Interface
BL20-1RS232

Compatible base modules

Dimension drawing	Type	Pin configuration
128,9 12,6	**BL20-S4T-SBBS** 6827046 Tension spring connection **BL20-S4S-SBBS** 6827047 Screw connection	Wiring Diagram