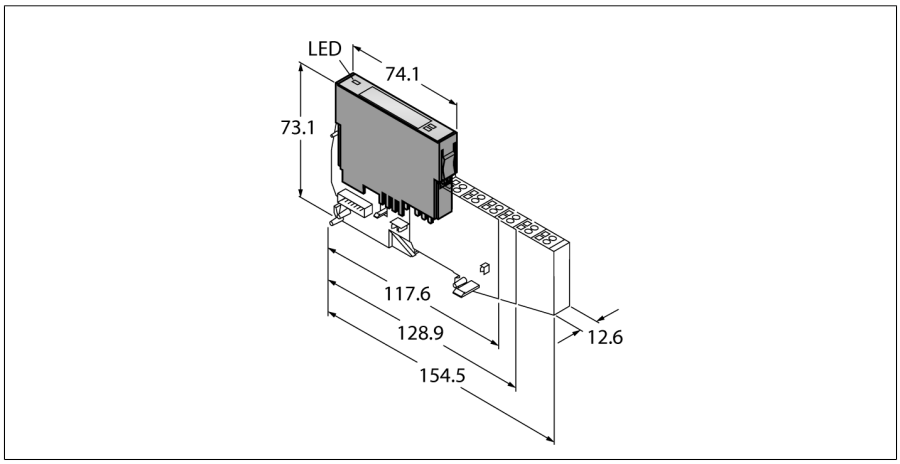
BL20 electronic module
Connection of SSI Encoders
BL20-1SSI



- **Fieldbus and connection technology independent**
- **Protection class IP20**
- **LEDs indicate status and diagnostic**
- **Electronics galvanically separated from the field level via optocouplers**
- **Connection of SSI encoder**
- **Transmission rate, max. 1Mbps**

Type designation	BL20-1SSI
Ident no.	6827166
Rated voltage from the supply terminal	24 VDC
Nominal current from field supply	≤ 25 mA
Nominal current from module bus	≤ 50 mA
Power dissipation, typical	≤ 1 W
Inputs / Outputs	
Transmission signals	CL, D
Connection type	4-wire full duplex (clock output/signal input)
Transmission rate	62.5 kbps up to 1 Mbps
Parameters	Transmission rate, diagnostics, data format (binary / GRAY coded), data frame bits (1-32), number of invalid bits (LSB: 0-15, MSB 0-7)
Cable length	30 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 55.4 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	1172 years acc. to SN 29500 (Ed. 99) 20 °C

Functional principle

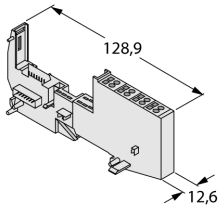
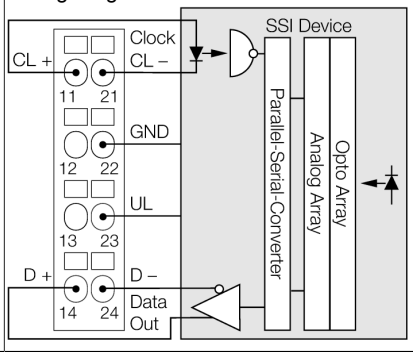
BL20 electronic modules are plugged into the purely passive base modules which are used for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Furthermore flexibility is enhanced because the base modules provide 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.

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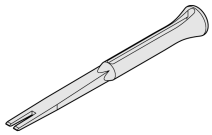
BL20 electronic module
Connection of SSI Encoders
BL20-1SSI

Compatible base modules

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

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Accessories

Type code	Ident no.		Dimension drawing
ZBW5-2BETÄTIGUNGSWE	6827126	Tension spring tool	

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