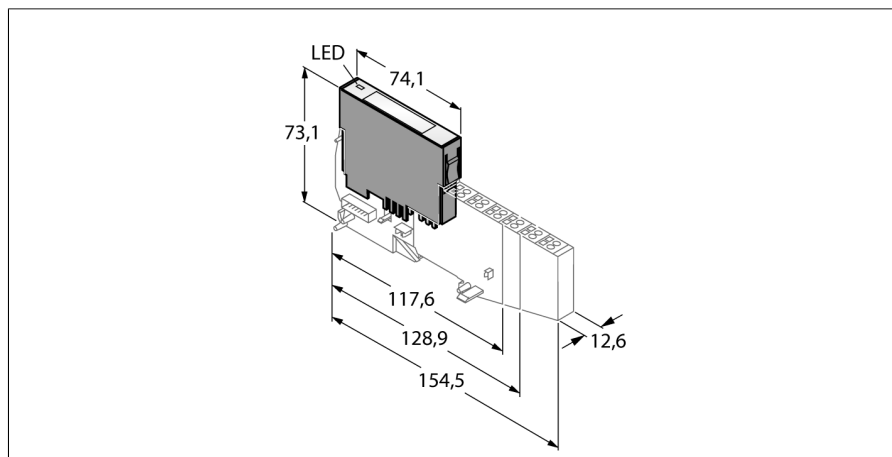


BL20 electronic module

2 Analog Inputs for Voltage

BL20-2AI-U(-10/0...+10VDC)



- Fieldbus and connection technology independent
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 2 analog inputs -10/0 ...+10 VDC

Functional principle

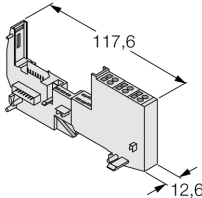
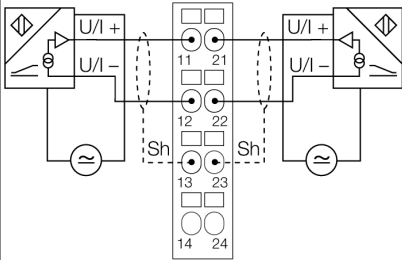
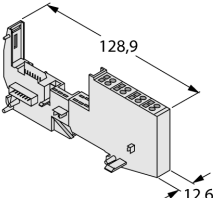
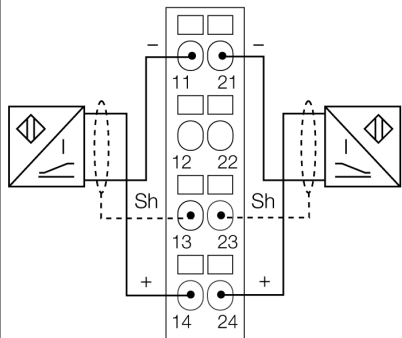
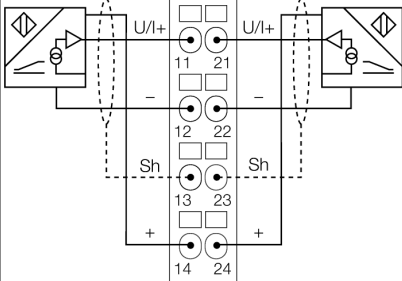
BL20 electronic modules are plugged into the purely passive base modules which are used for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Furthermore flexibility is enhanced because the base modules provide 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	BL20-2AI-U(-10/0...+10VDC)
ID	6827022
Number of channels	2
Rated voltage from the supply terminal	24 VDC
Nominal current from field supply	≤ 12 mA
Nominal current from module bus	≤ 35 mA
Power dissipation, typical	≤ 1 W
Inputs	
Input type	-10/0...10 VDC
Input resistance	> 98.5 kΩ
Max. input voltage	35 V continuous
Electrical isolation	electronics for the field level
Output connectivity	Screw, tension spring
Maximum limiting frequency analog	50 Hz
Basic fault limit at 23 °C	< 0.2 %
Repeatability	0.05 %
Temperature coefficient	< 150 ppm/°C of full scale
Resolution	16 Bit
Measuring principle	Delta Sigma
Measured-value display	16 bit signed integer
	12 bit full range left-justified
Cycle time	≤ 10 ms
Number of diagnostics bytes	2
Number of parameter bytes	2

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
MTTF	612 years acc. to SN 29500 (Ed. 99) 20 °C

Compatible base modules

Dimension drawing	Type	Pin configuration
	BL20-S3T-SBB 6827044 Tension spring connection with external sensor supply BL20-S3S-SBB 6827045 Screw connection with external sensor supply	Wiring Diagram 
	BL20-S4T-SBBS 6827046 Tension spring connection BL20-S4S-SBBS 6827047 Screw connection	2-wire Connection  3-wire Connection 

Accessories

Type code	Ident no.		Dimension drawing
ZBW5-2BETÄTIGUNGSWERKZEUG	68271103	Tension spring tool	