

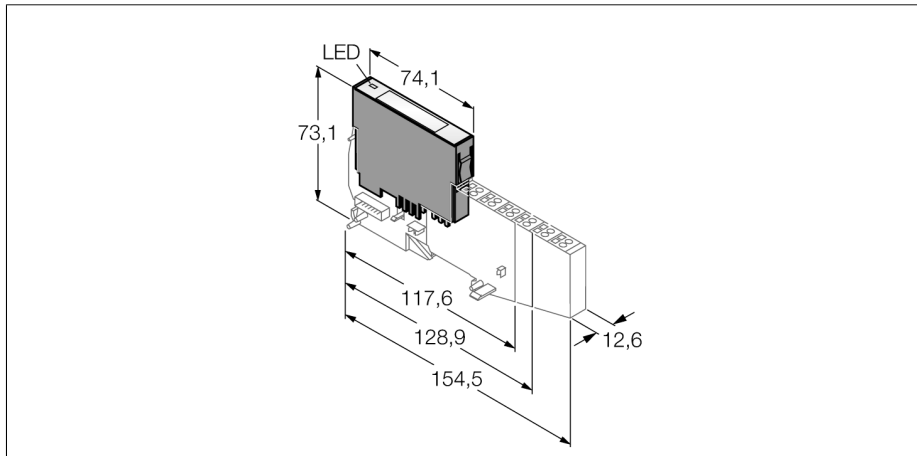
BL20 electronic module
2 analog inputs
BL20-2AI-U(-10/0...+10VDC)

- 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.

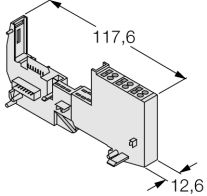
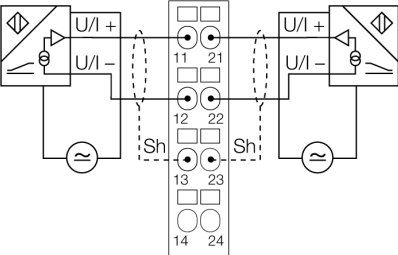
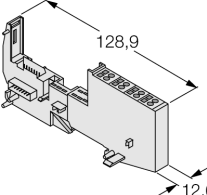
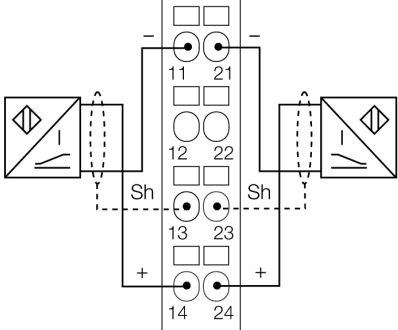
The electronic modules are completely independent of the type of higher level field bus through the use of gateways.



Type	BL20-2AI-U(-10/0...+10VDC)
Ident-No.	6827022
Number of channels	
Rated voltage from the supply terminal	24 VDC
Supply voltage	24 VDC
Rated current from field supply	≤ 12 mA
Rated current from module bus	≤ 35 mA
Power loss, typical	≤ 1 W
Inputs	
Input type	-10/0...+10 VDC
Input resistance	< 98,5
Max. input voltage	35 V continuous
Electrical isolation	electronics for the field level
Connection technology	Screw, tension spring
Basic fault limit at 23 °C	
Repeatability	< 0.2 %
Temperature coefficient	0.05 %
Resolution	< 150 ppm/°C of full scale
Measuring principle	16 Bit
Measured-value display	Delta Sigma
Cycle time	16 bit signed integer
	12 bit full range left justified
	≤ 10 ms
Number of diagnostics bytes	
Number of parameter bytes	2
Dimensions (W x L x H)	
Approvals	12.6x74.1x55.4mm
Operating temperature	CE, cULus, zone2, ClassI,div.2.
Storage temperature	0 ...+55 °C
Relative humidity	-25 ... +85 °C
Vibration test	5 to 95% (internal), Level RH-2, no condensation (at 45 °C storage)
Shock test	acc. to EN 61131
Drop and topple	acc. to IEC 68-2-27
Electro-magnetic compatibility	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Protection class	acc. to EN 50,082-2
	IP20

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Compatible base modules

Dimension drawing	Type	Pin configuration
	<p>BL20-S3T-SBB 6827044 tension spring connection with external sensor supply</p> <p>BL20-S3S-SBB 6827045 screw connection with external sensor supply</p>	<p>Wiring diagram</p> 
	<p>BL20-S4T-SBBS 6827046 tension spring connection</p> <p>BL20-S4S-SBBS 6827047 screw connection</p>	<p>2-wire connection technology</p>  <p>3-wire technology</p> 