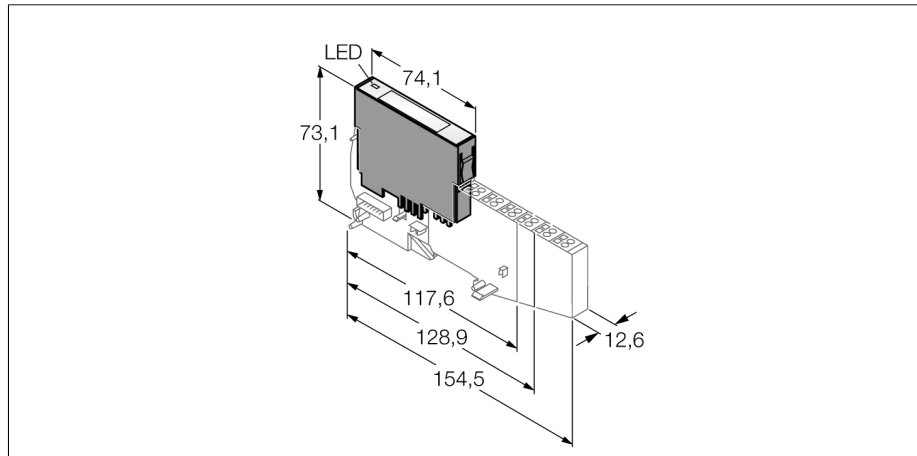


BL20 electronic module
1 analog input
BL20-1AI-U(-10/0...+10VDC)

TURCK

Industrial
Automation



- Fieldbus and connection technology independent
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 1 analog input -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.

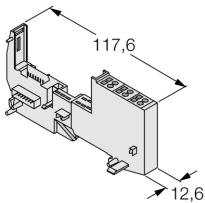
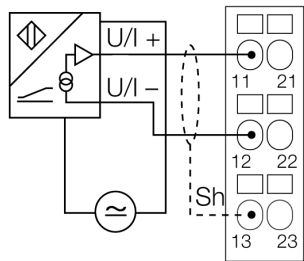
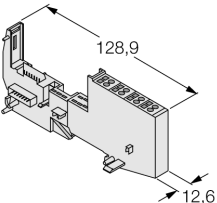
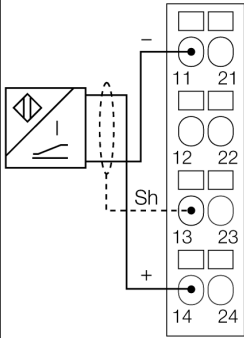
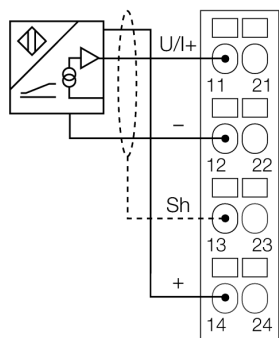
Type	BL20-1AI-U(-10/0...+10VDC)
Ident-No.	6827019
Number of channels	1
Rated voltage from the supply terminal	24 VDC
Supply voltage	24 VDC
Rated current from field supply	≤ 50 mA
Rated current from module bus	≤ 41 mA
Power loss, typical	≤ 1 W
Inputs	
Input type	-10/0...+10 VDC
Input resistance	> 98,5 kΩ
Max. input voltage	35 V continuous
Electrical isolation	electronics for the field level
Connection technology	Screw, tension spring
Basic fault limit at 23 °C	< 0.2 %
Repeatability	0.05 %
Temperature coefficient	< 300 ppm/°C of full scale
Resolution	14 Bit
Measuring principle	successive approximation
Measured-value display	16 bit signed integer 12 bit signed integer left-justified 12 bit full range left justified
Cycle time	≤ 3 ms
Number of diagnostics bytes	1
Number of parameter bytes	1
Dimensions (W x L x H)	12.6x74.1x55.4mm
Operating temperature	0 ...+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
Electro-magnetic compatibility	acc. to EN 50,082-2
Protection class	IP20

BL20 electronic module

1 analog input

BL20-1AI-U(-10/0...+10VDC)

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 technology  3-wire technology  4-wire connection technology 