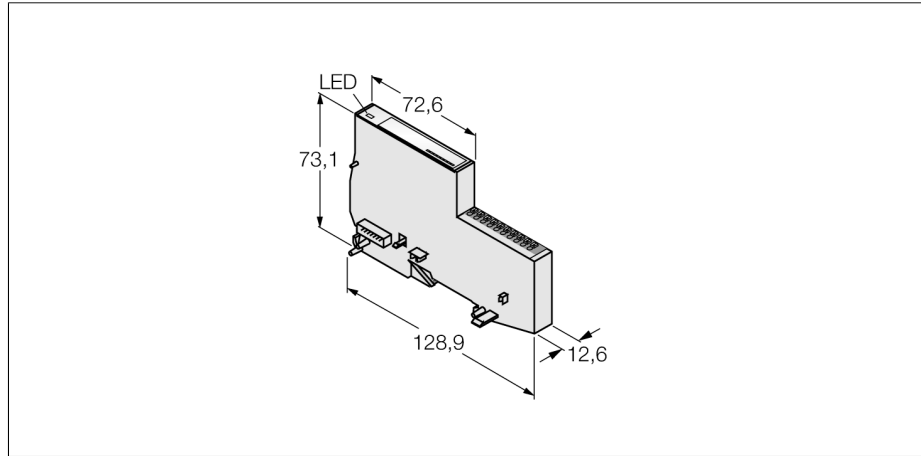


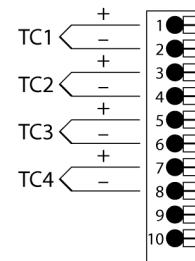
BL20 Economy Module
4 analog inputs for thermoelements
BL20-E-4AI-TC



- Fieldbus-independent
- Electronics and connection technology in one housing
- Push-in clamps
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 4 analog inputs for the connection of thermocouples
- Types B, C, E, G, J, K, N, R, S and T
- Cold junction compensation via integrated Pt1000 probe

Type	BL20-E-4AI-TC
Ident-No.	6827367
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Number of channels	4
Rated voltage from the supply terminal	24 VDC
Supply voltage	24 VDC
Rated current from field supply	≤ 30 mA
Rated current from module bus	≤ 50 mA
Power loss, typical	≤ 1 W
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Inputs	
Input type	types B, C, E, G, J, K, N, R, S, T
Input resistance	> 7MΩ
Electrical isolation	electronics for the field level
Connection technology	push-in
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Voltage resolution	+/- 50mV: < 2μV +/- 100mV: < 4μV +/- 500mV: <20μV +/-1000mV: <50μV
Maximum limiting frequency, analogue	70 Hz
Basic fault limit at 23 °C	< 0.2 %
Repeatability	0.05 %
Temperature coefficient	< 150 ppm/°C of full scale
Resolution	16 Bit
Measured-value display	16 bit signed integer 12 bit full range left-justified
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Dimensions (W x L x H)	12.6x128.6x74.6mm
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

Terminal assignment



Functional principle

Electronics and connection technology are integrated in the housing. A base module is not needed. Economy modules and modules with separate electronics and connection technology can be fitted into a station, provided the base modules feature tension spring connections.

The use of gateways makes economy modules completely independent from the higher level fieldbus.