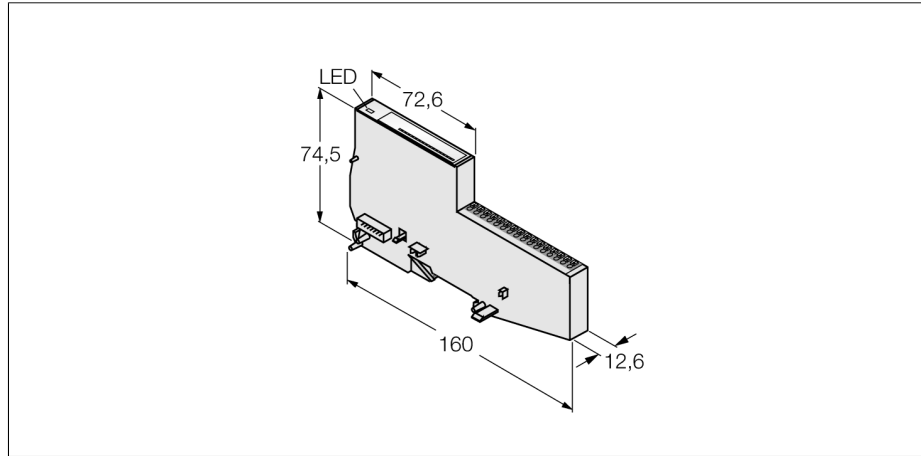
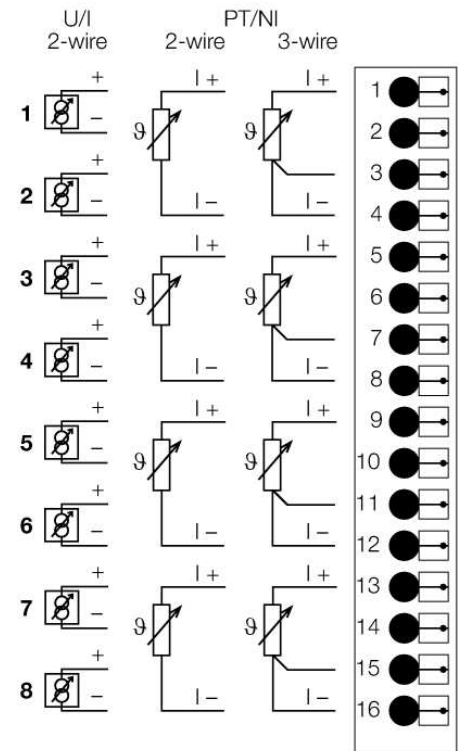


BL20 Economy Module
8 2-wire analog inputs U/I resp. 4 2/3-wire PT/Ni inputs
BL20-E-8AI-U/I-4PT/Ni



- 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
- 8 analog inputs U/I, 2-wire
- Passive inputs – external power supply
- 0...20mA, 4...20mA, -10...+10VDC or 0...+10VDC, selectable per channel, resp.
- 4PT/Ni inputs (always 2 analog inputs are combined to a PT/Ni 2/3-wire input)

Type	BL20-E-8AI-U/I-4PT/Ni
Ident-No.	6827325
Number of channels	
Rated voltage from the supply terminal	24 VDC
Supply voltage	24 VDC
Admissible range	18...30 VDC
Rated current from field supply	≤ 35 mA
Rated current from module bus	≤ 35 mA
Power loss, typical	≤ 1 W
Inputs	
Input type	0/4 ... 20 mA , -10/0 ... +10 VDC, PT100, PT200, PT500, PT1000, NI100, NI1000, 0...250 Ohm, 0...400 Ohm, 0...800 Ohm, 0...2000 Ohm, 0...4000 Ohm,
Input resistance	< 62 Ω (current) resp. > 98.5 kΩ (voltage)
Max. input current	Current: 50 mA
Max. input voltage	Voltage: -20 VDC < U < 20 VDC
Electrical isolation	electronics for the field level
Connection technology	push-in push-in
Basic fault limit at 23 °C	
Temperature coefficient	< 0.2 %
Resolution	< 200 ppm/°C of full scale
Measured-value display	16 Bit 16 bit signed integer 12 bit full range left justified 12 bit left-justified
Conversion time	< (44 x [number of actively parametrized channels]) ms
Number of diagnostics bytes	
Number of parameter bytes	8
Dimensions (W x L x H)	
Approvals	12.6x160x74.6mm CE, cULus, zone2, ClassI,div.2.
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



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.