

Temperature Input Modules

- Modular I/O
- Fieldbus Independent Configuration
- IP 20 Protection
- Thermocouple or RTD Inputs



BL20-2AI-THERMO-PI  
BL20-2AI-PT/Ni-2/3



**Electrical**

- Operating Current: <math><45\text{ mA}</math> from  $V_{MB}$   
<math><30\text{ mA}</math> from  $V_{IO}$
- Thermocouple Types: B, E, J, K, N, R, S, T (... THERMO-PI)
- RTD Types: PT100, PT500, PT1000, Ni100, Ni1000 (...PT/Ni-2/3)

**Power Distribution**

- Inputs:  $V_{IO}$
- Logic:  $V_{MB}$  and  $V_{IO}$

**Mechanical**

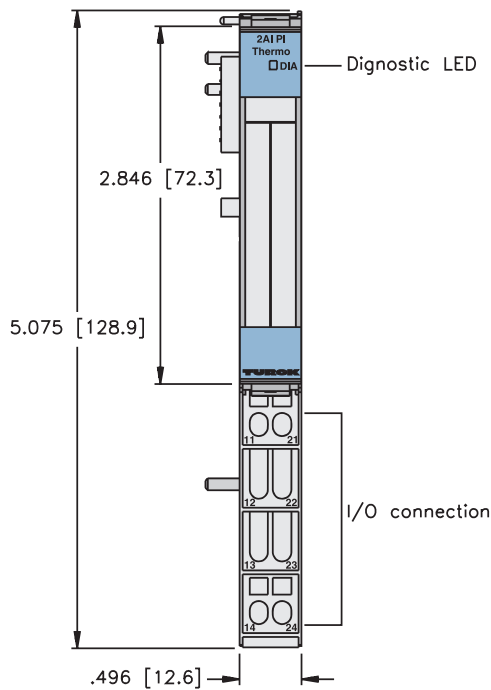
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IP 20

**Diagnostics (Logical)**

- Diagnostic information available through the fieldbus gateway

**Diagnostics (Physical)**

- LED to indicate module bus communication status as well as I/O diagnostics



Inputs							Data
Part Number	Input Count	Pinout	Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	I/O Map
BL20-2AI-PT/NI-2/3 with BL20-S4*-SBBS**	2	B20-4F	RTD				1
BL20-2AI-THERMO-PI with BL20-S4*-SBBS-CJ**	2	B20-4G	TC				1

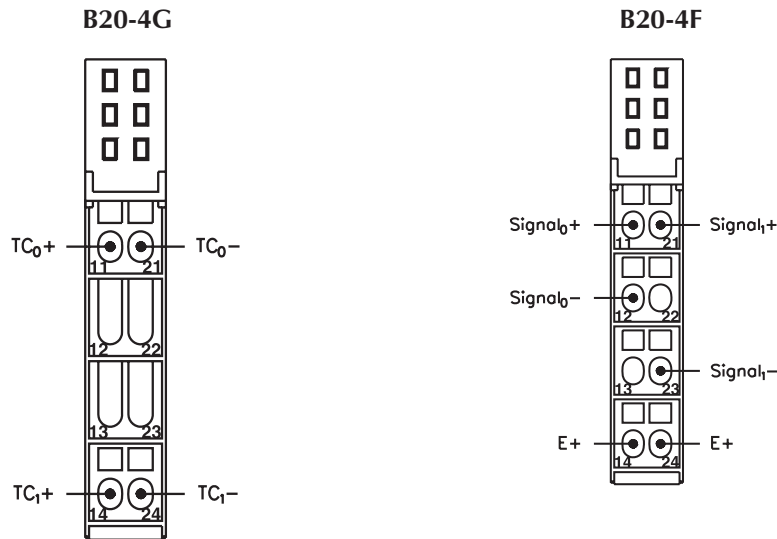
\* T = Tension clamp

S = Screw clamp

\*\* Base modules sold separately. See pages C56 - C60.

Note: BL20-S4\*-SBBS-CJ has integrated cold junction compensation fro thermocouples.

### Input Connectors



### I/O Data Map 1

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
In	n-1	(Data from modules to the left)							
	n	Channel 0, LSB							
	n+1	Channel 0, MSB							
	n+2	Channel 1, LSB							
	n+3	Channel 1, MSB							
	n+4	(Data from modules to the right)							