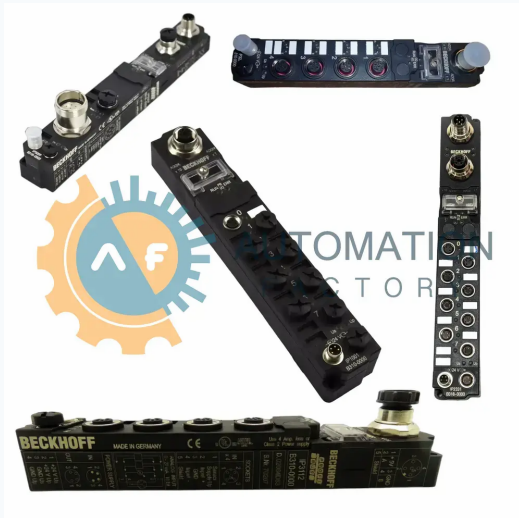


Beckhoff — IP Compact Box Units

IP3202-B520-0000



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The **IP3202-B520-0000** is an analog input module manufactured by Beckhoff for the IP Compact Box Units series. Intended for decentralized temperature acquisition, it performs resistance measurements on four channels and places signal conditioning directly on the machine. Its sealed housing and field-ready connectors allow mounting outside the control cabinet, so RTD leads can terminate close to the process while the fieldbus returns digitized values to the PLC. By delivering conditioned temperature data over EtherCAT, the unit reduces wiring runs and simplifies thermal monitoring in automated packaging, food processing, and assembly equipment.

It provides **4 analog inputs** that accept RTDs in resistance mode. Each channel is sampled with a cycle time of **260 ms**, and the converter delivers a resolution of **0.1 °C per digit** to support precise thermal regulation. The channel electronics are separated from the control side by **500 V** isolation, but individual channels are not isolated from one another. Broken conductors are indicated locally through **error LEDs**. Four selectable input filters suppress high-frequency noise, and the process image supplies four 16-bit words to the PLC. Optional local data lines add four 8-bit signals and four 16-bit signals for ancillary status information. Isolation between the control electronics and fieldbus helps prevent network disturbances from reaching the sensor supply.

Sensor leads fasten to an M12 screw-in header, and the module supports **2-wire or 4-wire connections** for compatible RTDs. Supported sensor types include **PT100, PT200, PT500, PT1000, Ni100, Ni120, and Ni1000**. The molded enclosure meets **IP65, IP66, and IP67** protection levels, allowing it to withstand dust, water jets, and temporary immersion. System power enters through **one 4-pin M8 connector**, while channel states reach the

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controller over the network cable that carries the converted measurements. The field-mounted design places the measurement electronics near the connected sensors and reduces the length of analog signal wiring. Local indication also allows connection faults to be recognized at the module without relying solely on controller diagnostics.

Specifications

Approvals:	CE, cULus	Broken Wire Detection:	Error LEDs	Channel-to-channel Isolation:	N
Channel/control Isolation:	500 V	Connection Technology:	Plug-in	Control/fieldbus Isolation:	Y
Conversion Time:	260 ms	Current Consumption:	typ. 100 mA	Diagnostic Leds:	Y
Dimensions (w X H X D):	30 mm x 126 mm x 26.5 mm	Input Filter Versions:	4	Input Type:	0 m 4 m
Inputs:	2 (differential)	Measuring Current:	Typically 0.5 mA	Mounting:	D m
Nominal Voltage:	24 V DC (-15%/+20%)	Number Of Channels:	4 analog inputs	Operating Temperature Range:	0
Optional I/o:	4 x 8 bits + 4 x 16 bits	Power Feed Connector:	1 x M8 connector, 4-pin	Process Image Input:	4 b
Protection Class:	IP65/IP66/IP67	Resistance Measurement:	Yes	Resolution:	0 d
Signal Connection:	M12 screw-in	Supported Rtd Types:	PT100/PT200/PT500/PT1000/Ni100/Ni120/Ni1000	Type:	A In M
Wire Technique:	2-wire or 4-wire	Last Verified:	10/26/2026 3:13 AM		

Contact Us

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