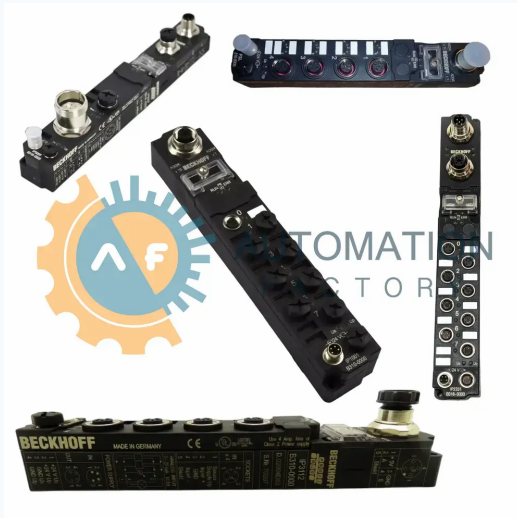


Beckhoff — IP Compact Box Units

IP4132-B510-0000



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The **IP4132-B510-0000** compact box unit is manufactured by Beckhoff within the IP Compact Box Units series. The device delivers distributed output capability, allowing control signals to reach actuators directly on the machine frame rather than through long home-run cables. By locating the electronics close to the process, the module shortens response paths and reduces wiring effort in modern industrial automation systems. It integrates with Beckhoff's modular I/O architecture through a rugged fieldbus coupler.

Internally, the unit drives **4 independent channels** with **16-bit resolution**, so each output can be set using 65,536 discrete steps. A process image width of **4 × 16 bits** is assigned to the controller, and additional control or diagnostic data are exchanged through four 8-bit status lines that accompany the main values. Output refresh is completed in less than **4 ms**, enabling the module to follow fast control loops. Each channel may source or sink up to **30 VDC**, and the outputs receive their energy from the dedicated control-voltage driver stage. The electronic ground is connected to the common 24 V system rail. The channels are not isolated from one another, so all outputs share the same reference node.

The daisy-chain connection to the next device passes through **one four-pin M8 socket**, while incoming 24 V power enters through **one four-pin M8 connector**. Load circuits exit through a single **M12 screw-in header** that secures the output connections against vibration. The outputs require a load impedance **greater than 5 kΩ**, making the box suitable for high-impedance signal interfaces. Each channel is isolated from the internal logic, separating the field-side circuitry from the module's processing electronics. The compact housing can be installed in

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any position without affecting normal performance. Its machine-mounted design keeps the field connections close to connected actuators and reduces the length of individual signal runs.

Specifications

Accuracy:	<±0.1% FS	Channel Isolation:	Yes	Control/status Bits:	4 x 8 bits
Conversion Time:	< 4 ms	Downstream Connection:	1 x M8 socket, 4-pin	Ground Potential:	Common With 24 VDC
Installation Position:	Variable	Interchannel Isolation:	No	Load Impedance:	> 5 k?
Load Voltage Max:	30 VDC	Min. Load Resistance:	>5 k?	Number Of Channels:	4
Number of Outputs:	4	Operating Temperature Range:	0...55 °C	Output Connection:	M12 screw-in
Output Connector:	M12 screw type	Output Driver Supply:	Control voltage	Output Voltage Range:	±10 V or 0...10 V
Power Input Connector:	1×M8 male, 4-pin, A-coded	Power Output Connector:	1×M8 female, 4-pin, A-coded	Power Supply Feed:	1 x M8 connector, 4-pin
Process Image Control/Status Bit Width:	4×8 bit (optional)	Process Image Data Bit Width:	4×16 bit	Process Image Output:	4 x 16 bits data
Protection Rating:	IP65/66/67 (EN 60529)	Resolution:	16 bit	Supply Voltage:	24 V DC (-15%/+20%)
Last Verified:	10/24/2026 10:36 PM				

Contact Us

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Shipping Options



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