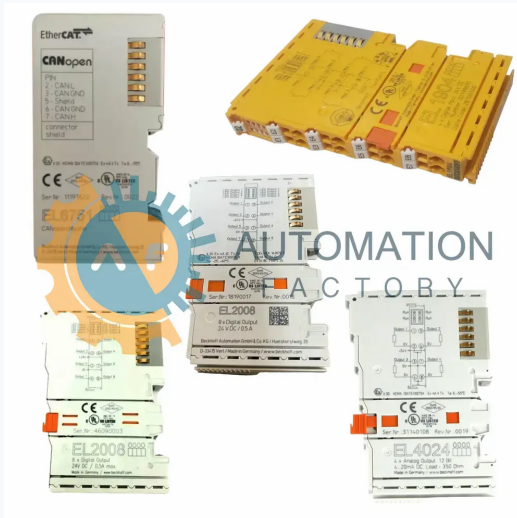


## Beckhoff — EL EtherCAT Terminals

# EL3152



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The **EL3152** is a DIN-rail-mounted analog input terminal produced by Beckhoff for the EL EtherCAT Terminals series. It provides voltage acquisition directly on the fieldbus, allowing the PLC to read sensor levels without external signal conditioners. By digitizing low-level process voltages at the network edge, the module streamlines wiring and reduces panel space in distributed industrial automation systems.

This terminal provides **2** independent single-ended channels that are sampled **simultaneously**, so time-critical measurements on separate loops retain phase alignment. Each channel uses a **16-bit** resolution, providing 65,536 discrete steps across the input span for fine granularity during PID or data-logging tasks. Analog bandwidth is bounded by a **5 kHz** filter limit frequency, helping prevent aliasing when fast-changing signals are present. Distributed Clocks provide precision of less than 1  $\mu$ s, keeping the measured data synchronized with motion axes and other EtherCAT devices. The process image width of 2  $\times$  16 bits plus 2  $\times$  8 bits places the results and status flags into the host controller's memory map without software packing.

Power for the conversion circuitry is drawn from the backplane at **170 mA**, eliminating the need for a separate supply rail. The input network has an internal resistance of **85  $\Omega$** , creating a predictable load for high-impedance transducers. Total measuring error remains within  **$\pm 0.3\%$  FS** to support precise signal monitoring in batching or test applications. Electrical isolation provides a dielectric strength of **30 V** between the field side and the logic domain, and each channel can accept up to **40 mA** of source current from connected sensors. The EL3152 has an IP20-rated enclosure and is intended for installation in closed control cabinets where exposure to dust and moisture

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is limited.

## Specifications

|                                       |                                             |                                      |                 |                             |                                       |
|---------------------------------------|---------------------------------------------|--------------------------------------|-----------------|-----------------------------|---------------------------------------|
| <b>Analog Inputs:</b>                 | 2                                           | <b>Clock Precision:</b>              | << 1 $\mu$ s    | <b>Conversion Time:</b>     | ~ 60 $\mu$ s (fast mode ~ 40 $\mu$ s) |
| <b>Current Consumption E-bus:</b>     | typ. 170 mA                                 | <b>Dielectric Strength:</b>          | 30 V            | <b>Distributed Clocks:</b>  | Yes                                   |
| <b>E-bus Current:</b>                 | 170 mA                                      | <b>Filter Limit Frequency:</b>       | 5 kHz           | <b>Ground Reference:</b>    | Single-Ended                          |
| <b>Input Current Capacity:</b>        | 40 mA                                       | <b>Input Filter Limit Frequency:</b> | 5 kHz           | <b>Internal Resistance:</b> | 85 $\Omega$                           |
| <b>Measurement Error/uncertainty:</b> | < $\pm$ 0.3% (relative to full-scale value) | <b>Measuring Error:</b>              | < $\pm$ 0.3% FS | <b>Number Of Inputs:</b>    | 2 (single-ended)                      |
| <b>Operating Temperature:</b>         | -25...+60°C                                 | <b>Power Supply:</b>                 | via the E-bus   | <b>Process Image Width:</b> | 2 x 16 bit + 2 x 8 bit                |
| <b>Protection Class:</b>              | IP20                                        | <b>Resolution:</b>                   | 16 bit          | <b>Sampling Type:</b>       | Simultaneous                          |
| <b>Signal Current:</b>                | 4...20 mA                                   | <b>Storage Temperature:</b>          | - 40...+85°C    | <b>Last Verified:</b>       | 10/24/2026 3:30 PM                    |

## Contact Us

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### Shipping Options



### Payment Methods



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