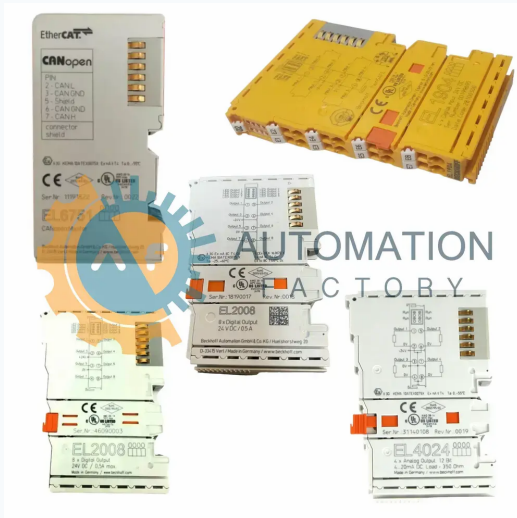




## Beckhoff — EL EtherCAT Terminals

# EL2202-0100



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The **EL2202-0100** is a digital output terminal manufactured by Beckhoff for the EL EtherCAT Terminals series. Designed for incorporation into EtherCAT I/O assemblies, the module translates real-time fieldbus commands into electrical switching signals that drive on-machine actuators and indicator devices. It attaches to adjacent terminals through integrated backplane contacts, creating a compact chain of modules that share bus communication and field power along the DIN rail.

It provides **2 digital outputs** that operate at a nominal **24 VDC**. The outputs use a **push-pull** driver stage capable of sourcing or sinking up to **0.5 A** per channel, so standard resistive, inductive, or lamp loads can be switched directly without external relays. An internal protection circuit limits fault current to 4 A for 150  $\mu$ s. After this short interval, the affected channel shuts down, reducing thermal stress on wiring and upstream power supplies. Signal integrity is reinforced by output cycle variability of **< 100 ns**, while the on and off transitions remain below 1  $\mu$ s, supporting precisely timed positioning or dosing tasks on high-speed machinery.

The terminal aligns its switching edge with the EtherCAT distributed-clock domain, and the outputs can be started by **SYNCO**. Distributed-clock support maintains sub-microsecond timing correlation between nodes across an entire machine line. In the process image, the module occupies **4 bits**, simplifying address allocation in the PLC and keeping the update load low on the bus coupler. The communication electronics draw **130 mA** from the E-bus, while the field side requires 30 mA plus the current drawn by each connected load. The enclosure has an **IP20** protection class for cabinet installation. Continuous operation is permitted at ambient humidity levels up to 95% without

condensation.

## Specifications

|                                               |                                  |                                     |                                           |                                    |                 |
|-----------------------------------------------|----------------------------------|-------------------------------------|-------------------------------------------|------------------------------------|-----------------|
| <b>Connection cross-section (solid wire):</b> | 0.08 to 2.5 mm²                  | <b>Design form:</b>                 | Compact terminal housing with signal LEDs | <b>Digital Outputs:</b>            | 2               |
| <b>Dimensions (W x H x D):</b>                | 12 mm x 100 mm x 68 mm           | <b>Distributed clock precision:</b> | << 1 µs                                   | <b>Distributed clocks:</b>         | Yes             |
| <b>Electrical isolation:</b>                  | 500 V (E-bus to field potential) | <b>Load Type:</b>                   | Ohmic, Inductive, Lamp Load               | <b>Max Output Current:</b>         | 0.5 A           |
| <b>Max Relative Humidity:</b>                 | 95%                              | <b>Operating temperature range:</b> | 0 to 55°C                                 | <b>Output Cycle Variability:</b>   | < 100 ns        |
| <b>Output stage:</b>                          | Push-Pull                        | <b>Output Trigger:</b>              | SYNC0                                     | <b>Process Image Width:</b>        | 4 bit           |
| <b>Protection Class:</b>                      | IP20                             | <b>Rated Output Voltage:</b>        | 24 VDC                                    | <b>Short-circuit current:</b>      | 4 A / 150 µs    |
| <b>Stripping length:</b>                      | 8 to 9 mm                        | <b>Ton/toff Time:</b>               | < 1 µs                                    | <b>Typical Current Limitation:</b> | 4 A / 150 µs    |
| <b>Typical E-bus Current:</b>                 | 130 mA                           | <b>Typical Power Current:</b>       | 30 mA + load                              | <b>Wiring:</b>                     | Solid conductor |
| <b>Last Verified:</b>                         | 10/24/2026<br>11:23 AM           |                                     |                                           |                                    |                 |

## Contact Us

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