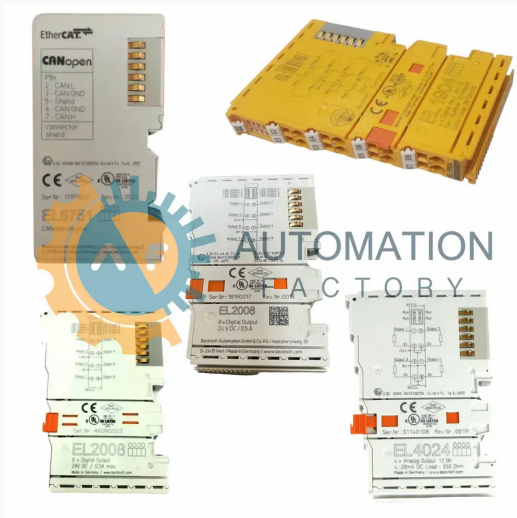




Beckhoff — EL EtherCAT Terminals

EL2022



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The **EL2022** is a twin-channel digital output terminal from Beckhoff that belongs to the EL EtherCAT Terminals series. Within an EtherCAT segment it acts as a compact actuator interface, forwarding controller commands to field devices that run on 24-volt logic or power. By converting the system's serial process data into two discrete high-side switches, it streamlines distribution of switching tasks for machinery, conveyors, and building automation systems. Each output delivers a nominal level of **24 VDC** and can source up to **2 A** per channel, enough to drive contactors, solenoids, or indicator lamps without an intermediate relay. Typical activation latency is only **40 µs**, while de-energizing takes about **200 µs**; these timing figures help maintain deterministic cycle times in fast PLC programs. Terminal electronics obtain bus power through the internal E-bus, drawing a typical **100 mA**. Two independent outputs share the same supply yet remain electrically separated in the process image, so the controller addresses them as bit-wide variables. The design supports ohmic, inductive, and lamp loads, and it integrates reverse-voltage and short-circuit protection to avoid damage from wiring errors or stalled actuators.

For cabinet integration the terminal snaps onto a **35 mm** DIN rail, and its installation position is variable, allowing horizontal or vertical mounting without affecting heat dissipation. Housing and spring terminals are rated to the **IP20** protection class, keeping fingers and tools away from live conductors while remaining suited for clean, enclosed panels. When inductive loads are disconnected, the internal suppression circuitry limits switch-off energy to less than **1.7 J per channel**, reducing arcing on the power path. In the EtherCAT memory map the device occupies exactly **2 output bits**, so no word alignment overhead is introduced when grouping multiple EL2022 units

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on the same node.

Specifications

Bandwidth:	60 MHz	Common Mode Rejection Ratio (cmrr):	98 dB	E-bus Current Consumption:	100 mA typ.
Gain Bandwidth Product:	100 MHz	Inductive Switch-off Energy:	<1.7 J/channel	Input Bias Current:	2 nA (typical)
Input Impedance:	10 M?	Input Offset Voltage:	1 mV (typical)	Installation Position:	Variable
Load Type:	Ohmic, Inductive, Lamp Load	Max Output Current/ch:	2 A	Mounting Rail:	35 mm
Nominal Output Voltage:	24 VDC	Number Of Channels:	Dual	Number Of Outputs:	2
Operating Temperature Range:	0°C to +70°C	Output Voltage Swing:	±13V (with ±15V supply)	Power Consumption:	6 mA/ch (typical)
Process Image Width:	2 output bits	Protection Class:	IP20	Reverse Voltage Protection:	Yes
Short-circuit Protection:	Yes	Slew Rate:	350 V/μs	Supply Voltage Range:	±2V to ±18V
Switching Times:	Turn-on: 40 μs (typical); Turn-off: 200 μs (typical)	Turn-off Time:	200 μs typ.	Turn-on Time:	40 μs typ.
Type:	Operational Amplifier	Last Verified:	10/24/2026 6:13 AM		

Contact Us

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