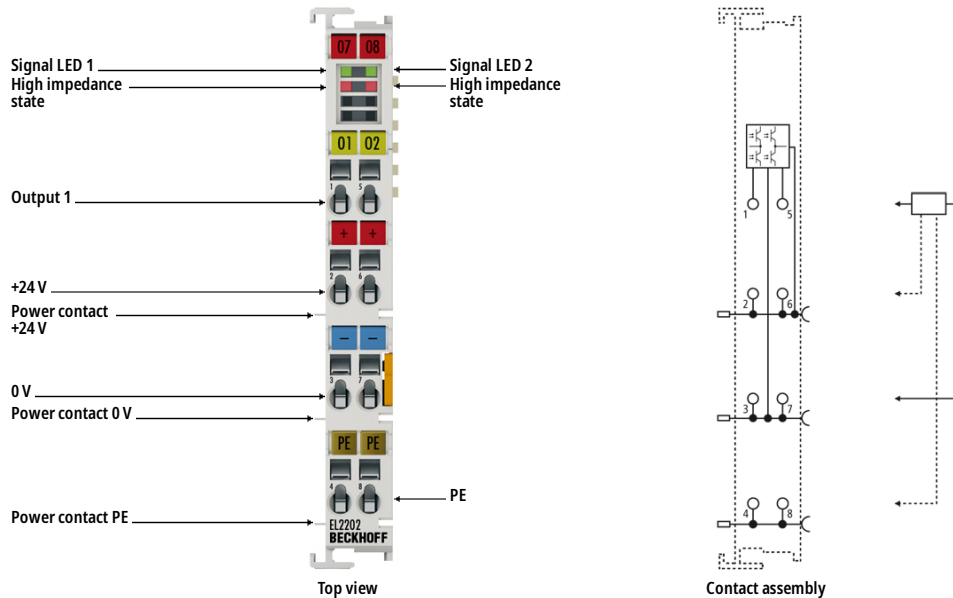
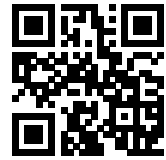


EL2202 | EtherCAT Terminal, 2-channel digital output, 24 V DC, 0.5 A, push-pull, tristate



i Product status: Regular delivery

The EL2202/EL2202-0100 digital output terminal connects the binary control signals from the automation device on to the actuators at the process level with electrical isolation. This terminal benefits from very small output delay and is therefore suitable for signals requiring particularly fast output. The EtherCAT Terminal has a push-pull output that can be actively switched to 24 V, 0 V or high-impedance. The EL2202-0100 contains two channels. LEDs indicate the signal state of each channel.

Unlike the EL2202, the EL2202-0100 already has distributed clocks (DC) support enabled, i.e. the output data can be monitored synchronously with other data from terminals with distributed clock support. The system-wide DC accuracy is $\ll 1 \mu\text{s}$. The activation or deactivation of the distributed clocks support can also be done by the user on the EL2202 (see documentation), on the EL2202-0100 it is included ex works.

Special features:

- Push-pull output with tristate
- Suitable for particularly fast signal output
- High-impedance output switching option
- Max. output current 0.5 A per channel
- Synchronized operation via distributed clocks XFC technology

Product information

Technical Data

Technical data

EL2202, ES2202

Connection technology	4-wire
Number of outputs	2
Nominal voltage	24 V DC (-15 %/+20 %)
Load type	ohmic, inductive, lamp load
Distributed clocks	–
Max. output current	0.5 A (short-circuit proof in push operation) per channel
Short-circuit current	typ. 4 A/150 µs
Reverse voltage protection	yes
Breaking energy	< 150 mJ/channel
Switching times	typ. TON: < 1 µs, typ. TOFF: < 1 µs
Output stage	push-pull, high-ohmic
Current consumption E-bus	typ. 130 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 30 mA + load
Bit width in the process image	2 outputs, 2 bit enable tri-state
Configuration	no address or configuration setting
Special features	can be converted to DC version EL2202-0100, outputs connectable in high-resistance mode
Weight	approx. 60 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. rating/installation pos.	IP20/variable
Pluggable wiring	for all ESxxxx terminals
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA IIC T4 Gc

Housing data	EL-12-8pin	ES-12-8pin
Design form	compact terminal housing with signal LEDs	terminal housing with pluggable wiring level
Material	polycarbonate	
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm	
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock	
Side by side mounting by means of	double slot and key connection	
Marking	labeling of the BZxxx series	
Wiring	solid conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver	

Connection cross-section	s*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²	s*: 0.08...1.5 mm ² , st*: 0.08...1.5 mm ² , f*: 0.14...1.5 mm ²
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16	s*: AWG 28...16, st*: AWG 28...16, f*: AWG 26...16
Stripping length	8...9 mm	9...10 mm
Current load power contacts	I _{max} : 10 A	

*s: solid wire; st: stranded wire; f: with ferrule

Ordering Information

Ordering information	
EL2202	EtherCAT Terminal, 2-channel digital output, 24 V DC, 0.5 A, push-pull, tristate
ES2202	EtherCAT Terminal, 2-channel digital output, 24 V DC, 0.5 A, push-pull, tristate, pluggable wiring