

EL2502 | EtherCAT Terminal, 2-channel PWM output, 24 V DC, 0.5 A

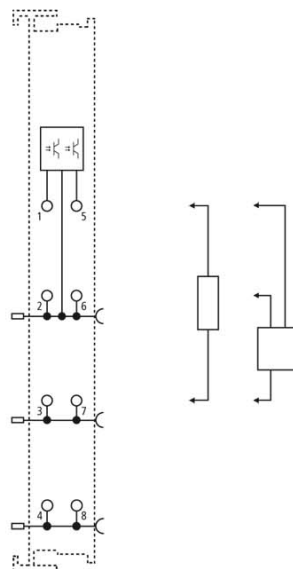
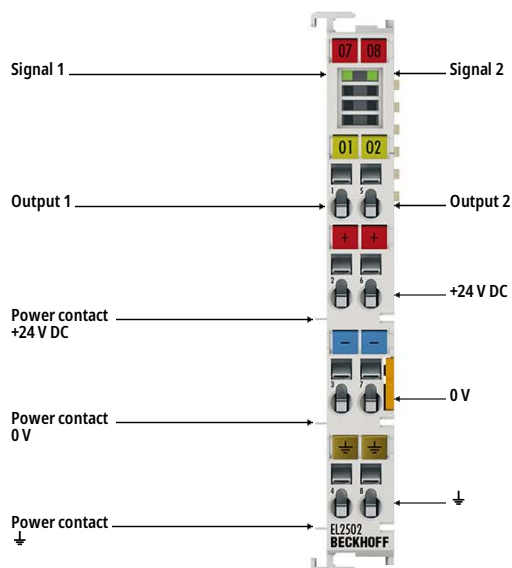


Image similar, may contain optional accessories

i **Product status:** regular delivery

The EL2502 output terminal modulates the pulse width of a binary signal, and outputs it electrically isolated from the E-bus. The mark/space ratio is preset by a 16-bit value from the automation device. The output stage is protected against overload and short-circuit. The EtherCAT Terminal contains two channels whose signal state is indicated by LEDs. The LEDs are driven in time with the outputs, and show the duty factor by their brightness.

Special features:

- PWM output with push-pull output stage
- max. output current 0.5 A per channel
- separate frequency adjustable for each channel

Product information

Technical data

| Technical data | EL2502 |
|-----------------------|-------------------------------|
| Connection technology | PWM output, push-pull outputs |
| Number of outputs | 2 |
| Nominal voltage | 24 V DC (-15%/+20%) |
| Load type | ohmic, inductive, lamp load |

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|------------------------------------|--|
| Distributed clocks | – |
| Max. output current | 0.5 A (short-circuit proof) per channel |
| Short-circuit current | typ. < 1.5 A |
| Base frequency | 1 Hz...125 kHz, 250 Hz default |
| Duty factor | 0...100% (pulse duration $T_{ON} > 750$ ns, pause duration $T_{OFF} > 500$ ns) |
| Resolution | 9...15 bit |
| Reverse voltage protection | yes |
| Current consumption E-bus | typ. 140 mA |
| Current consumption power contacts | typ. 30 mA |
| Bit width in the process image | 2 x 16 bit PWM output |
| Configuration | via TwinCAT System Manager |
| Electrical isolation | 500 V (E-bus/field potential) |
| Special features | separate frequency can be set for each channel |
| Weight | approx. 50 g |
| Operating temperature | -25...+55°C |
| Storage temperature | -40...+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 |
| Plug-in wiring level | for all ESxxxx terminals |
| Approvals/markings | CE, CCC, UL, ATEX, IECEx |
| Ex marking | ATEX: II 3 G Ex ec IIC T4 Gc IECEx: Ex ec 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 | |
| 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 BZxxxx series | |

| | | |
|-------------------------------------|---|---|
| Wiring | solid conductor (s), flexible conductor (st) and ferrule (f): 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*: AWG28...14, st*: AWG28...14, f*: AWG26...16 | s*: AWG28...16, st*: AWG28...16, f*: AWG26...16 |
| Stripping length | 8...9 mm | 9...10 mm |
| Current load power contacts | I _{max} : 10 A | |
| Dimensions (W x H x D) | 12 mm x 100 mm x 68 mm | |

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

Ordering information

| Ordering information | |
|----------------------|---|
| EL2502 | EtherCAT Terminal, 2-channel PWM output, 24 V DC, 0.5 A |
| ES2502 | EtherCAT Terminal, 2-channel PWM output, 24 V DC, 0.5 A, pluggable wiring level |