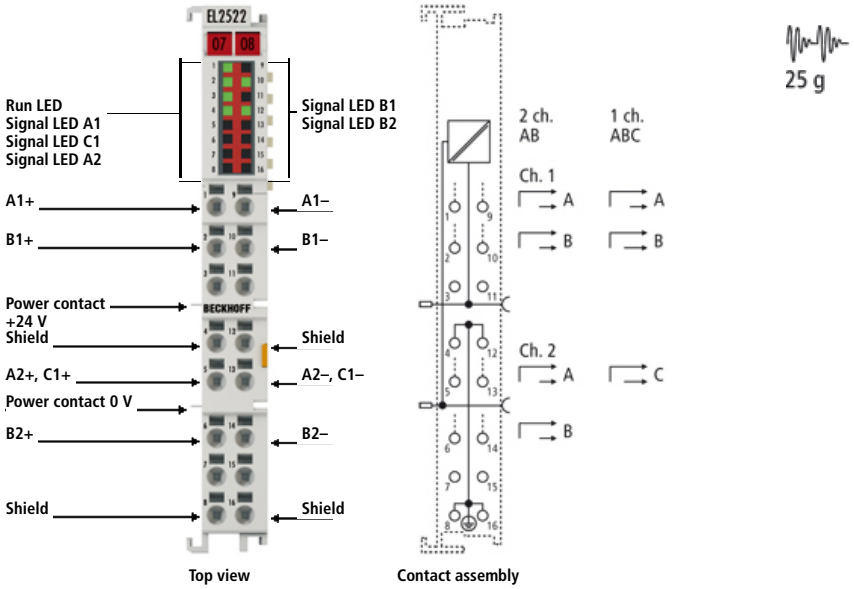

Top view Contact assembly

EL2522 | Incremental encoder simulation terminal (pulse train)

The EL2522 incremental encoder simulation terminal (pulse train) outputs a signal that is modulated via the frequency signal on two channels with four outputs. The signal can be used to control motor drivers or other signal receivers, which are controlled by single cycles. As with the EL2521, the pulse sequence and pulse number can be directly specified via the process data in the frequency. Alternatively, the integrated travel distance control can be used. For each channel the operating mode (frequency modulation, pulse/direction specification and incremental encoder simulation) can be selected. In addition, the EL2522 can control three output channels in the ABC encoder simulation.

Technical data	EL2522
Connection technology	pulse train (frequency output)
Number of outputs	2 channel A/B, 1 channel A/B/C (4 differential outputs)
Distributed clocks	yes
Output specification	RS422, differential, 50 mA, min. 220 Ω load
Short circuit current	short-circuit-proof
Base frequency	0…4 MHz, 50 kHz default
Resolution	16 bit (incl. sign, scaled via the set frequency range)
Step size	min. 10 ns (internal)
Current consumption E-bus	typ. 120 mA
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 50 mA (load-dependent)
Special features	operating modes as with EL2521, ABC incremental encoder simulation including interfacing with TwinCAT NC
Weight	approx. 50 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. class/installation pos.	IP 20/variable
Approvals	CE, UL

We reserve the right to make technical changes.