



EJ5002 | 2-channel SSI encoder interface

The EJ5002 plug-in module allows the direct connection of two SSI encoders. The data is transmitted to the controller synchronously with the clock cycle dictated by the EJ5002. Various parameters make it possible to flexibly adapt the EJ5002 to the respective application. Different parameters can be set and analysed like operation mode, SSI transfer rate, coding and data length. Furthermore, an additional bit can be displayed in the process image.

The 24 V power supply for the encoder can be provided directly via the feed-in on the signal distribution board. For optional 5 V power, the EJ9505 power supply module can be used.

The EJ5002 supports distributed clocks. Cyclic reading of the SSI encoder can thus be started with high precision, enabling detailed dynamic analysis of the axis in the control system.

Technical data	EJ5002
Encoder connection	D+, D-, Cl+, Cl-
Input voltage	24 V DC (-15 %/+20 %)
Current consumption	typ. 20 mA without encoder
Current consumption E-bus	typ. 120 mA
Data transfer rates	variable up to 1 MHz, 250 kHz default
Serial input	24 bit width (adjustable, max. 32 bit)
Data direction	read
Distributed clocks	yes
Signal input (data)	difference signal (RS422)
Signal output (pulse)	difference signal (RS422)
Electrical isolation	500 V (E-bus/field potential)
Special features	adjustable baud rate, coding and data length
Dimensions (W x H x D)	12 mm x 66 mm x 55 mm
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protection class	IP 20
Approvals	CE