



## EL3612 | 2-channel analog input terminal 0...20 mA, differential input, 24 bit

The EL3612 analog input terminal handles signals in the range between 0 and 20 mA. The voltage is digitised to a resolution of 24 bits, and is transmitted, electrically isolated, to the higher-level automation device. The input channels of the EtherCAT Terminal have differential inputs and possess a common, internal ground potential. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Technical data	EL3612   ES3612
Number of inputs	2 (differential)
Power supply	via the E-bus
Technology	differential input
Signal current	0...20 mA
Oversampling factor	–
Distributed clocks	–
Distributed clock precision	–
Internal resistance	typ. 85 Ω + diode voltage
Input filter limit frequency	3 kHz
Common-mode voltage $U_{CM}$	max. 10 V
Conversion time	1...400 ms configurable
Input signal bandwidth	see input filter
Resolution	24 bit (incl. sign)
Measuring error	< ±0.01 % at 25 °C (relative to full scale value, 50 Hz filter)
Electrical isolation	500 V (E-bus/signal voltage)
Current consumption power contacts	–
Current consumption E-bus	typ. 190 mA
Crosstalk attenuation	> 60 dB
Special features	various filter times, limit evaluation, high precision
Weight	approx. 60 g
Operating/storage temperature	-25...+60 °C/-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. class/installation pos.	IP 20/variable
Pluggable wiring	for all ESxxxx terminals
Approvals	CE, UL, Ex

### Related products

**EL3612-0020**

2-channel analog input terminal 0...20 mA, differential input, 24 bit, with calibration certificate