



EL3048 | 8-channel analog input terminal 0...20 mA, single-ended, 12 bit

The EL3048 analog input terminal processes signals in the range between 0 and 20 mA. The current is digitised to a resolution of 12 bits and is transmitted (electrically isolated) to the higher-level automation device. The EL3048 EtherCAT Terminal combines eight channels in one housing. The power contacts are connected through. The 0 V power contact is used as reference ground connection for the inputs. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Technical data	EL3048 ES3048
Number of inputs	8 (single-ended)
Power supply	via the E-bus
Technology	single-ended
Signal current	0...20 mA
Distributed clocks	–
Internal resistance	85 Ω typ.
Input filter limit frequency	1 kHz
Dielectric strength	max. 30 V
Conversion time	1.25 ms default setting, configurable
Resolution	12 bit (16 bit presentation, incl. sign)
Measuring error	< ± 0.3 % (relative to full scale value)
Electrical isolation	500 V (E-bus/signal voltage)
Current consumption power contacts	–
Current consumption E-bus	typ. 130 mA
Bit width in the process image	inputs: 32 byte
Configuration	no address or configuration setting required
Special features	standard and compact process image, activatable FIR/IIR filters, limit value monitoring
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