



EL3154 | 4-channel analog input terminal 4...20 mA, single-ended, 16 bit

The EL3154 analog input terminal processes signals in the range between 4 and 20 mA. The current is digitised to a resolution of 16 bits and is transmitted (electrically isolated) to the higher-level automation device. The input electronics are independent of the supply voltage of the power contacts. In the EL3154 with four inputs, the 24 V power contact is connected to the terminal in order to enable connection of 2-wire sensors without external supply. The power contacts are connected through. The signal state of the EtherCAT Terminal is indicated by light emitting diodes. The error LEDs indicate an overload condition and a broken wire.

Technical data	EL3154 ES3154
Number of inputs	4 (single-ended)
Technology	single-ended
Signal current	4...20 mA
Distributed clocks	yes
Internal resistance	85 Ω typ. + diode voltage
Input filter limit frequency	5 kHz
Dielectric strength	max. 30 V
Conversion time	~ 100 μ s
Resolution	16 bit (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: 16 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