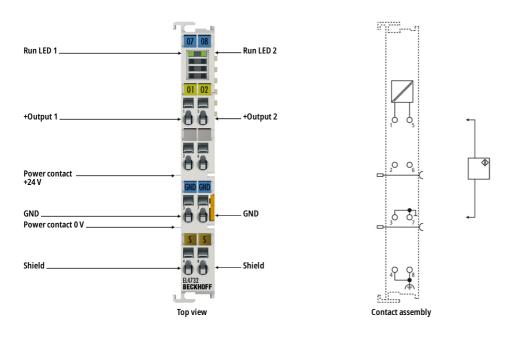
EL4732 https://www.beckhoff.com/el4732

# EL4732 | EtherCAT Terminal, 2-channel analog output, voltage, ±10 V, 16 bit, oversampling





#### Product status: Regular delivery

The EL4732 analog output terminal generates signals in the range between -10 V and +10 V. The voltage is supplied to the process level with a resolution of 16 bits and is electrically isolated. The output channels have a common ground potential. The outputs are oversampled with an adjustable, integer multiple (oversampling factor: n) of the bus cycle frequency (n microcycles per bus cycle). For each bus cycle, the EtherCAT Terminal receives a process data block that is output consecutively. The time base of the terminal can be synchronized precisely with other EtherCAT devices via distributed clocks. This procedure enables the temporal resolution of the analog output signals to be increased to n times the bus cycle time. In conjunction with the EL37xx (analog input terminal with oversampling), responses with equidistant time intervals, e.g. in the event of a threshold value being exceeded, become possible. The EL4732 device can output a maximum of 100,000 values (100 ksamples/s) per channel and second.

### **Product information**

#### Technical data

Technical data	EL4732, ES4732
Connection technology	2-wire, single-ended
Number of outputs	2
Power supply	via the E-bus
Signal voltage	-10+10 V
Oversampling factor	n = 1100 selectable
Distributed clocks	yes



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Distributed clock precision	<< 1 μs
Load	> 5 k $\Omega$ (short-circuit proof)
Output error	< 0.1 % (relative to end value)
Resolution	16 bit (incl. sign)
Electrical isolation	500 V (E-bus/signal voltage)
Conversion time	~ 10 µs
Output rate	max. 100 ksamples/s
Current consumption power contacts	-
Current consumption E-bus	typ. 180 mA
Bit width in the process image	n x 2 x 16 bit output, 32 bit CycleCounter
Special features	oversampling
Weight	approx. 50 g
Operating/storage temperature	-25+60 °C/-40+85 °C
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
Protect. rating/installation pos.	IP20/variable
Pluggable wiring	for all ESxxxx terminals
Approvals/markings	CE, UL, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3 G Ex nA IIC T4 Gc IECEx: Ex nA IIC T4 Gc Ex tc IIIC T135 °C Dc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

Housing data	EL-12-8pin	ES-12-8pin
<b>Design form</b>	compact terminal housing with signal LEDs	terminal housing with pluggable wiring level
Material	polycarbonate	
Dimensions (W x H x D)	12 mm x 100 mm x 68 mm	
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock	
Side by side mounting by means of	double slot and key connection	
Marking	labeling of the BZxxx series	
Wiring	solid conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver	
Connection cross-section	s*: 0.082.5 mm <sup>2</sup> , st*: 0.082.5 mm <sup>2</sup> , f*: 0.141.5 mm <sup>2</sup>	s*: 0.081.5 mm², st*: 0.081.5 mm², f*: 0.141.5 mm²



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Connection cross-section AWG	s*: AWG 2814, st*: AWG 2814, f*: AWG 2616	s*: AWG 2816, st*: AWG 2816, f*: AWG 2616
Stripping length	89 mm	910 mm
Current load power contacts	I <sub>max</sub> : 10 A	

<sup>\*</sup>s: solid wire; st: stranded wire; f: with ferrule

## Ordering information

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EL4732	EtherCAT Terminal, 2-channel analog output, voltage, ±10 V, 16 bit, oversampling
ES4732	EtherCAT Terminal, 2-channel analog output, voltage, ±10 V, 16 bit, oversampling, pluggable wiring