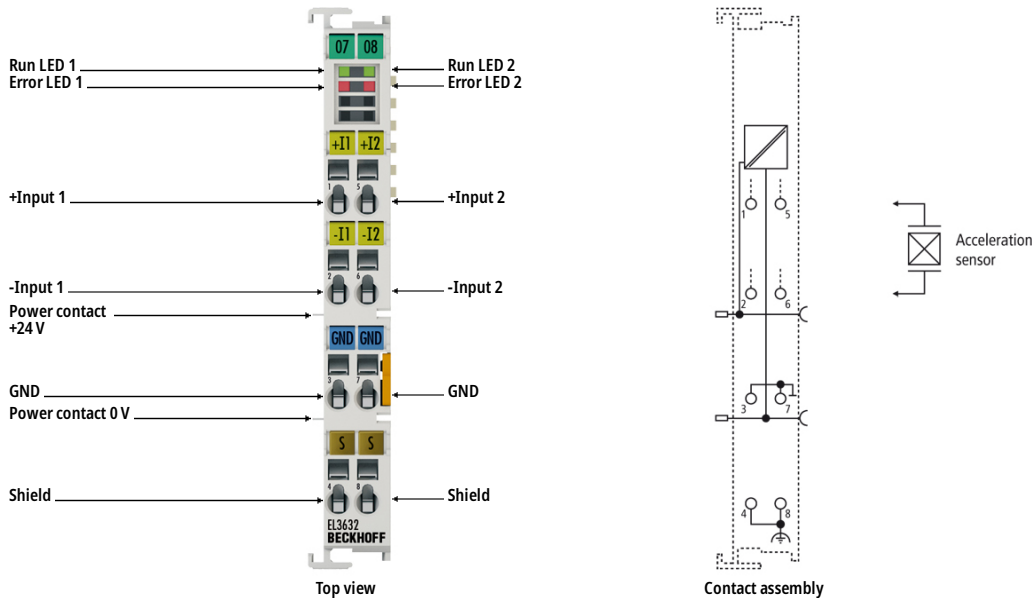




EL3632 | EtherCAT Terminal, 2-channel analog input, IEPE/accelerometer, 16 bit, 50 ksps



i Product status: Regular delivery

Accelerometers with IEPE interface can be directly connected to the EL3632 EtherCAT Terminal. The measuring signals are analyzed on the PC via the TwinCAT library. This enables all benefits of the PC platform, such as performance and flexibility, to be fully utilized. Alternatively, custom software can be used for the analysis. The terminal can be adapted to individual requirements through configurable filters and supply currents.

A galvanically isolated measurement configuration can be achieved using the EL9560. Through interfacing via EtherCAT and support of the distributed clocks function, the measurement results – and any detected defects – can be precisely allocated to an axis position.

Product information

Technical Data

Technical data	EL3632
Number of inputs	2
Technology	condition monitoring (IEPE), oversampling recording
Signal type	differential
Signal voltage	IEPE constant current supply and recording of modulated AC voltage
Distributed clocks	yes
Input filter limit frequency	analog parameterizable 5 th order low-pass filter up to 25 kHz, typically 0.05 Hz high-pass filter

Conversion time	20 μ s (max. 50 ksamples/s)
Measuring range	default \pm 5 V up to 25 kHz, \pm 250 mV up to 10 Hz
Power supply UV	24 V DC via power contacts
Sensor voltage	max. power contact voltage less 1 V
Sensor state monitoring	yes, through monitoring of the bias voltage
Supply current IEXCITE	typ. 2/4/8 mA (separately configurable for both channels)
Resolution	16 bit (incl. sign)
Measuring error	< \pm 0.5 % (DC; relative to full scale value)
Current consumption power contacts	24 V, typ. 20 mA + load
Current consumption E-bus	typ. 220 mA
Special features	automatic anti-aliasing function, wire breakage detection
Weight	approx. 60 g
Operating/storage temperature	0...+55 °C/-25...+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. rating/installation pos.	IP20/see documentation
Approvals/markings	CE, UL, ATEX
Ex marking	II 3 G Ex nA IIC T4 Gc

Housing data	EL-12-8pin
Design form	compact terminal housing with signal LEDs
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*: 0.08...2.5 mm ² , st*: 0.08...2.5 mm ² , f*: 0.14...1.5 mm ²
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16
Stripping length	8...9 mm
Current load power contacts	I _{max} : 10 A

*s: solid wire; st: stranded wire; f: with ferrule