



## EP3752-0000 | 2 x 3-axis accelerometers

The EP3752-0000 EtherCAT Box has two internal 3-axis accelerometers with 16 bits and a selectable resolution of  $\pm 2$  g,  $\pm 4$  g,  $\pm 8$  g and  $\pm 16$  g. The sampling frequency is 1 Hz to 5 kHz. Possible applications include the recording of vibrations and shocks/oscillations, and furthermore inclination measurements in all three axes. Since measurement is carried out with two sensors that are positioned at an angle of  $90^\circ$  to each other, the control system can check measured data for plausibility. Extended integrated filter functions allow measured data to be pre-processed and appropriately scaled in order to filter disturbances and to relieve the workload of the control system.

Technical data	EP3752-0000
Number of inputs	2 x 3
Input connections	3-axis accelerometers internally
Sensors	$\pm 2 \dots 16$ g, programmable
Protocol	EtherCAT
Bus interface	2 x M8 socket, shielded, screw type
Resolution	16 bit (incl. sign)
Sampling rate	up to 5 kHz
Distributed clocks	yes
Sensor supply	from control voltage Us
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin
Current consumption from Us	120 mA
Electrical isolation	500 V
Special features	extended filter functions, tilt measurement
Operating/storage temperature	-25...+60 °C/-40...+85 °C
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 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2020-3xxx-xxxx	Cables for M8 power supply
ZS2002-0111	D-sub plug, 25-pin, solder contacts, IP 67